Letter of Notification for the Fostoria – East Lima 138 kV Transmission Line Rebuild Project

(North Woodcock – New Liberty)



An AEP Company

PUCO Case No. 24-0077-EL-BLN

Submitted to: The Ohio Power Siting Board Pursuant to Ohio Administrative Code Section 4906-6-05

Submitted by: Ohio Power Company

February 2, 2024

LETTER OF NOTIFICATION

Ohio Power Company

Fostoria – East Lima 138 kV Transmission Line Rebuild Project (North Woodcock – New Liberty)

4906-6-05 Accelerated Application Requirements

Ohio Power Company (the "Company") provides the following information to the Ohio Power Siting Board ("OPSB") in accordance with the accelerated application requirements of Ohio Administrative Code Section 4906-6-05.

4906-6-05(B) General Information

B(1) Project Description

The name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a Letter of Notification.

The Company proposes the Fostoria-East Lima 138 kilovolt ("kV") Transmission Line Rebuild Project (North Woodcock-New Liberty) (the "Project"), located in Liberty, Blanchard, and Union townships in Hancock County and Richland Township in Allen County. The Company proposes rebuilding approximately 14.5 miles of the existing Fostoria – East Lima 138 kV Transmission Line between North Woodcock Station and New Liberty Station. Approximately 26.8 miles of the existing Fostoria – East Lima is proposed for rebuild under a separate application (Case No. 24-0076-EL-BLN) by AEP Ohio Transmission Company.

The Project will be rebuilt within the existing right-of-way ("ROW"), replacing steel lattice towers with steel monopole structures. Maps 1 and 2 show the location of the Project.

The Project meets the requirements for a Letter of Notification ("LON") as defined by Items 2(b) of Appendix A to Ohio Administrative Code Section 4906-1-01, *Application Requirement Matrix for Electric Power Transmission Lines*:

(2) Adding new circuits on existing structures designed for multiple circuit use, replacing conductors on existing structures with larger or bundled constructors, adding structures to an existing transmission line, or replacing structures with a different type of structure, for a distance of:

(b) More than two miles.

The Project has been assigned Case No. 24-0077-EL-BLN.

B(2) Statement of Need

If the proposed Letter of Notification project is an electric power transmission line or gas or natural gas transmission line, a statement explaining the need for the proposed facility.

The Fostoria – East Lima 138kV Transmission Line is 41.3 miles long and consists primarily of double circuit steel lattice towers, originally installed in 1924. The double circuit line connects the Company's 138 kV systems between Lima, Findlay, and Fostoria areas of Ohio. In total there are 8 stations to which the line connects to. The stations associated with this Project either provide service to industrial and distribution customers in the area or provide primary sources into the area's sub-transmission systems.

There are numerous asset renewal concerns on the transmission line. The majority of the 1924 structures are steel lattice towers. Pre-1930's era lattice structure design does not account for ice/wind loadings and utilize inadequate lightning protection. In addition, the following issues have been observed on similar construction/vintage lines across the AEP footprint: conductor steel core strength has diminished, significant wear/corrosion of hardware and insulators, loss of galvanizing and corresponding strength of steel lattice members and weakened foundations and tower legs. The Fostoria – East Lima 138 kV Transmission Line has displayed similar signs of degradation.

The overall deterioration of the line is an indicator of the need to rebuild the asset rather than repair the 100-year-old facility. There are 44 structures with at least one open condition, which affects approximately 22% of the structures along the existing line. Some of the open conditions identified consisted of broken conductor strands, burned insulators, broken/damaged lattice members and hardware. An assessment conducted by ground crews for a portion of the structures along the existing line confirmed these open conditions. In addition to the open conditions identified as part of conventional inspection cycles, concerns with ovalization, wear, and corrosion of connection points were identified through targeted UAV inspections of the line.

Since 2015, customers have experienced 8 total outages across the circuits on this line. The permanent outages on the line between the Ebersole Station and New Liberty Station have caused 19,640 minutes of interruption for 326 distribution customers at Flag City Substation affecting 10.2 MVA of load. Failure to move forward with this Project will continue to expose customers served from the line to outages as the asset continues to deteriorate.

The need and solutions for rebuilding the entire asset were submitted to PJM as a single Fostoria – East Lima 138 kV Transmission Line Rebuild Project on 05/21/2021 and 07/09/2021 respectively, and subsequently assigned a PJM identifier of s2812 (see **Appendix B**). The Project solution had not been formally vetted by PJM at the time of the Company's 2023 LTFR, but the Project will be included in the Company's 2024 LTFR.

B(3) Project Location

The applicant shall provide the location of the project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the Project area.

The location of the Project in relation to existing transmission lines and substations is shown on Map 1, in **Appendix A**. Map 2, in **Appendix A**, identifies the Project components on a 2021 aerial photograph.

B(4) Alternatives Considered

The applicant shall describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility. The discussion shall include, but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the project.

The entire existing 138 kV transmission line will be rebuilt on centerline and within existing ROW. The goal of selecting a suitable route for the Project was to minimize impacts on land use and natural and cultural resources while avoiding circuitous routes, significantly higher costs, and non-standard design requirements. Based on desktop and field examinations, the Company identified rebuilding the approximately 15-mile-long 138 kV transmission line in-place as the best and most reasonable route.

The Project route is direct and impacts no new parcels or landowners; therefore, the Project reduces new viewshed impacts and would not limit future development in the area. Additionally, the design provides for proper clearances within the existing ROW and existing ROW easements permit rebuilding and upgrading the existing line. Thus, major route alternatives were not considered for rebuilding the existing transmission line. Additionally, the ecological and cultural field surveys conducted within the existing easements determined that no streams or cultural features would be permanently impacted by the Project. Two existing structures are located within two delineated palustrine emergent ("PEM") wetlands (Wetland 1-AA and Wetland 1-AC) and their replacement structures are proposed to remain within the PEM wetlands. No new wetlands will be impacted by the Project. Additionally, structure footprints within the PEM wetlands will be reduced since the existing steel lattice tower structures are to be replaced with steel monopole structures.

B(5) Public Information Program

The applicant shall describe its public information program to inform affected property owners and tenants of the nature of the project and the proposed timeframe for project construction and restoration activities.

The Company will inform affected property owners and tenants about this Project through several different mediums. Within seven days of filing this LON, the Company will issue a public notice in a newspaper of general circulation in the Project area. The notice will comply with all requirements of OAC Section 4906-6-08(A)(1-6). Further, the Company will mail a letter, via first class mail, to affected landowners, tenants, contiguous owners and any other landowner the Company may approach for an Ohio Power Company Fostoria – East Lima 138 kV Transmission Line Rebuild Project (North Woodcock – New Liberty)

easement necessary for the construction, operation, or maintenance of the Project. The letter will comply with all requirements of OAC Section 4906-6-08(B). The Company maintains a website (http://aeptransmission.com/ohio/) which hosts an electronic copy of this LON and the public notice of this LON. An electronic and paper copy of the LON will be served to the public library in each political subdivision affected by this Project. In addition, the Company retains ROW land agents that discuss Project timelines, construction and restoration activities and convey this information to affected owners and tenants.

B(6) Construction Schedule

The applicant shall provide an anticipated construction schedule and proposed inservice date of the project.

Construction of the Project is planned to begin in May 2024 with an anticipated in-service date of December 2026.

B(7) Area Map

The applicant shall provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.

Map 1, in **Appendix A**, identifies the location of the Project area on a United States Geological Survey 1:24,000 quadrangle map. **Appendix A**, Map 2 shows the Project area on a 2021 aerial photograph.

To visit the Project from downtown Columbus, Ohio, take I-70 W towards Dayton. Then, use the right three lanes to take exit 93, onto I-270 N towards Cleveland. Continue north on I-270 for 9 miles, then take exit 17B to merge onto OH161W/US-33 W towards Marysville. Follow US-33W for approximately 47 miles. Exit onto OH-117 W towards Huntsville/Lima and continue on OH-117 W for approximately 9 miles. Turn right onto OH-235 N/High Street and take the second left onto OH-235 N. Continue for approximately 1 mile. Turn right onto County Line Road/S Hardin Road and continue for approximately 9 miles. The road name changes to Hancock Road. Continue for an additional 6.5 miles to arrive at North Woodcock Station. The address for North Woodcock Station is 11965 Hancock Road, Bluffton, OH 45817 at latitude 40.912611, longitude -83.880891.

B(8) Property Agreements

The applicant shall provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.

The Project will be constructed within existing ROW and will not impact any new parcels or landowners. **Appendix C** provides a table of property parcel numbers with an indication as to the

easement type and whether the easement has been obtained in order to construct and operate the facility.

B(9) Technical Features

The applicant shall describe the following information regarding the technical features of the project:

B(9)(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.

The Project is estimated to include the following:

Voltage:	138 kV
Conductors:	795 kcmil 26/7 ACSR "Drake"
Static Wire:	7#8 Alumoweld, 96ct OPGW
Insulators:	Polymer
ROW Width:	100 feet
Structure Types:	Sixty-seven (67) monopole double circuit (DC) suspension
	Three (3) monopole DC deadend
	One (1) two pole DC deadend

B(9)(b) Electric and Magnetic Fields

For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line.

B(9)(b)(i) Calculated Electric and Magnetic Field Strength Levels

i) Calculated Electric and Magnetic Field Levels

Three loading conditions were examined: (1) Normal Maximum Loading, (2) Emergency Loading, and (3) Winter Normal Conductor Rating, consistent with the OPSB requirements. Normal Maximum Loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal ("WN") conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this circuit of this line would operate at its WN rating in the foreseeable future.

Electric and Magnetic Field ("EMF") levels were computed one meter above ground under the line and at the ROW edges (50/50 feet, left/right, of centerline).

Our results, calculated using EPRI's EMF Workstation 2015 software, are summarized below.

North Woodcock – New Liberty					
Condition	Load (A)	Phasing Arrangements	Ground Clearance (feet)	Electric Field (kV/m)*	Magnetic Field (mG)*
(1) Normal Max. Loading^	84/126	C/A B/B A/C	36	0.22/1.37/0.27	8.96/17.52/5.56
(2) Emergency Line Loading^^	188/222	C/A B/B A/C	27	0.29/1.37/0.27	15.36/33.07/9.02
(3) Winter Conductor Rating^^^	79/134	C/A B/B A/C	36	0.26/0.75/0.26	8.44/1058/4.87

*EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and 1.0 P.U. Voltages. ROW width is 50 feet (left) and 50 feet (right) of centerline, respectively.

^Peak line flow expected with all system facilities in service.

^^Maximum flow during a critical system contingency

^^^Maximum continuous flow that the line, including its terminal equipment, can withstand during winter conditions.

For power-frequency EMF, IEEE Standard C95.6TM-2002 recommends the following limits:

	General	Controlled
	Public	Environment
Electric Field Limit (kV/m)	5.0	20.0
Magnetic Field Limit (mG)	9040	27,100

The above EMF levels are well within the limits specified in IEEE Standard C95.6TM-2002. Those limits have been established to "prevent harmful effects in human beings exposed to electromagnetic fields in the frequency range of o-3 kHz."

B(9)(b)(ii) Design Alternatives

A discussion of the applicant's consideration of design alternatives with respect to electric and magnetic fields and their strength levels, including alternate conductor configuration and phasing, tower height, corridor location, and right-of-way width.

Design alternatives were not considered due to EMF strength levels. Transmission lines, when energized, generate EMF. Laboratory studies have failed to establish a strong correlation between exposure to EMF and effects on human health. However, some people are concerned that EMF have impacts on human health. Due to these concerns, EMF associated with the new circuits was calculated Ohio Power Company Fostoria – East Lima 138 kV Transmission Line Rebuild Project (North Woodcock – New Liberty) 24-0077-EL-BLN

and set forth in the table above. The EMF was computed in a manner to maximize the estimate, assuming the highest reasonable input values based on conditions along the proposed transmission line rebuild. Normal daily EMF levels would be less than these, which were calculated at maximum load conditions. Based on studies from the National Institutes of Health, the magnetic field (measured in milliGauss, or mG) associated with emergency loading at the highest EMF value for this transmission line is lower than those associated with normal household appliances like microwave ovens, electric shavers, and hair dryers. For additional information regarding EMF, the National Institutes of Health has posted information on their website:

http://www.niehs.nih.gov/health/topics/agents/emf/.

B(9)(b)(ii)(c) Project Cost

The estimated capital cost of the project.

The cost estimate for the proposed Project, which is comprised of applicable tangible and capital costs, is approximately \$32, 500,000 using a Class 4 estimate. Pursuant to the PJM OATT, the costs for this Project will be recovered in the AEP Ohio Transmission Company's FERC formula rate (Attachment H-14 to the PJM OATT) and allocated to the AEP Zone.

B(10) Social and Ecological Impacts

The applicant shall describe the social and ecological impacts of the project:

B(10)(a) Operating Characteristics

Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.

The Project is located in Richland Township in Allen County and Union, Blanchard and Liberty townships in Hancock County.

Existing land uses surrounding the Project predominantly consist of cropland or pasture/hayfield with residential properties and forested lands scattered throughout. Residential, commercial, and industrial buildings are sparse in the Project area. Two (2) adjacent West Central Ohio Land Conservancy Easements are within 1,000 feet of the Project; however, the Project does not cross either of the conservation easements as they are located between approximately 480 and 860 feet from the Project. No other protected areas are located within 1,000 feet of the Project. Rebuilding the existing transmission line within existing ROW minimizes effects on existing land use.

B(10)(b) Agricultural Land Information

Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.

The Project occupies approximately 176 acres; of that, approximately 153 acres has been historically used as agricultural land, including cropland or pasture/hay field.

Auditor offices of Allen County and Hancock County were contacted on September 1, 2023, requesting agricultural district land information crossed by the Project. Based on email correspondence with the Allen County Auditor's Office on January 30, 2024, no properties registered as agricultural district land are crossed by the Project. Based on email correspondence with the Hancock County Auditor's Office on January 29, 2024, 17 properties registered as agricultural district land are crossed by the Project. Overall, the Project crosses 43 acres of agricultural district land.

The Fostoria – East Lima 138 kV Transmission Line was installed in 1924 and has since co-existed with agricultural land uses; therefore, the proposed rebuild is not anticipated to change the existing agricultural landscape. Additionally, the existing steel lattice towers will be replaced with steel monopoles, which require smaller foundations.

B(10)(c) Archaeological and Cultural Resources

Provide a description of the applicant's investigation concerning the presence or absence of significant archaeological or cultural resources that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

The Company's consultant completed Phase I Archaeological and History/Architectural surveys, which involved subsurface testing and visual inspection and was coordinated with the State Historic Preservation Office ("SHPO") between July and December 2022. The Company's consultant recommended that the Project would have no adverse effect on historic properties and no further cultural resource work would be necessary. In the responses receive on August 8, 2022 and January 1, 2023, SHPO supported the consultant's recommendations and indicated that no additional archaeological survey is recommended. A copy of the concurrence letters from SHPO are provided in **Appendix D**.

B(10)(d) Local, State, and Federal Agency Correspondence

Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.

A Notice of Intent ("NOI") will be filed with the Ohio Environmental Protection Agency for authorization of construction storm water discharges under General Permit OHC000006 and local

stormwater permits will be obtained from Allen and Hancock counties. The Company will implement and maintain best management practices as outlined in the Project-specific Stormwater Pollution Prevention Plan ("SWPPP") to minimize erosion sediment to Project surface waters during storm events.

Two existing structures along the Fostoria – East Lima 138 kV Transmission Line between North Woodcock Station and New Liberty Station are each located within a delineated PEM wetland (Wetland 1-AA and Wetland 1-AC, respectively). The existing structures will be replaced in proximity to their existing location within the PEM wetlands. The Company will obtain proper permits from the United States Army Corps of Engineers ("USACE") and/or the Ohio Environmental Protection Agency ("OEPA") prior to construction.

The Project proposes to rebuild an existing line and will generally involves pole-for-pole structure replacements near existing structure locations. Currently, seven existing structures are located within the Federal Emergency Management Agency's ("FEMA") designated 100-year floodplain. The Project proposes installing new structures in proximity to existing structures within the FEMA-designated 100-year floodplain areas. Impacts to the FEMA-designated floodplain areas are anticipated to be minimal as the Company proposes to replace the lattice structure with a new steel monopole, thereby reducing the overall structure footprint within floodplain. Floodplain permitting may be required for the Project if a substantial change in Base Flood Elevation ("BFE") is anticipated from Project activities. Local floodplain permits will be obtained from Allen and Handcock counties prior to the start of construction should they be deemed necessary.

There are no other known local, state, or federal requirements that must be met prior to commencement of the Project.

B(10)(e) Threatened, Endangered, and Rare Species

Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

The Company's consultant submitted coordination letters to the United States Fish and Wildlife Service ("USFWS") and the Ohio Department of Natural Resources ("ODNR") Ohio Natural Heritage Program ("ONHP") and Division of Wildlife ("DOW"), seeking environmental reviews of potential impacts to threatened or endangered species for the Project. As presented in **Appendix D**, responses from USFWS and ODNR were received on August 8, 2022 and July 27, 2022, respectively.

The August 2022 USFWS response indicated that the entire Project is within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (*Myotis septentrionalis*) in Ohio. The USWFS recommends avoiding trees \geq 3 inches diameter at breast height (dbh) wherever possible. If no caves or abandoned mines are present and trees \geq 3 inches dbh cannot be avoided, the USFWS recommends implementing seasonal tree cutting (October 1 through March

31). Since the entire Project will be rebuilt within existing, maintained ROW, minimal tree clearing is anticipated. The Company will adhere to seasonal tree clearing restrictions between October 1 and March 31; therefore, adverse impacts to these species are not anticipated.

Due to the Project's type, size, and location, the USFWS does not anticipate adverse impacts to any other endangered, threatened, or proposed species, or proposed or designated critical habitat.

The July 2022 ODNR DOW response indicated that the Project is located within the range of the following protected bat species: the state endangered and federally endangered Indiana bat, the state endangered and federally threatened northern long-eared bat, the state endangered little brown bat (*Myotis lucifugus*), and the state endangered tricolored bat (*Perimyotis subflavus*). The DOW also recommends seasonal tree cutting for trees with loose, shaggy bark and/or crevises, holes, or cavitites, as well as trees ≥ 20 inches dbh between October 1 and March 31 to avoid adverse impacts to these species. If suitable habitat is present within the Project area and trees must be cut in the summer months, the DOW recommends that either a mist net survey or acoustic survey is conducted between June 1 and August 15 prior to any cutting. The Company's consultant performed a desktop assessment for potential hibernacula within a 0.25 mile radius of the Project, which indicated no potential or known hibernaculum. Since the Project proposes rebuilding existing transmission lines within maintained ROW, minimal tree clearing is required for the Project. The Company will adhere to seasonal tree clearing restrictions between October 1 and March 31; therefore, adverse impacts to these species are not anticipated.

The DOW also indicated that the Project is within the range of several state or federal listed freshwater mussels: the clubshell (*Pleurobema clava*), a federally endangered species; the rayed bean (*Villosa fabalis*), a federally threatened species; the purple lilliput (*Toxolasma lividum*), a state endangered species; the pondhorn (*Uniomerus tetralasmus*), a state threatened species; and the salamander mussel (*Simpsonaias ambigua*). Additionally, the Project is located within the range of the western banded killifish (*Fundulus diaphanous menona*), a state endangered fish. The DOW indicated that due to the location and that no in-water work is proposed in a perennial stream, the Project is not likely to impact these aquatic species.

The DOW indicated that the Project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species that prefers wet meadows and other wetlands. The Company's consultant identified no potentially suitable habitat within the Project area; therefore, no adverse impacts are anticipated for the species.

The Project is within the range of the black-crowned night-heron (Nycticora nycticroax), a state threatened bird. Night-herons are so named because they are nocturnal, conducting most foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from April 1st through December 1st but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. Nightherons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat is potentially impacted by project activities, the DOW recommends

avoiding construction during the species' nesting period of May 1 through July 31. The Company's consultant identified no potentially suitable habitat; therefore, the Project is not anticipated to impact the black-crowned night-heron.

The Project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird that prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass, or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat is potentially impacted, the DOW recommends avoiding constructions during the species' nesting period (May 1 through July 31). The Company's consultant identified no potentially suitable habitat; therefore, the Project is not anticipated to impact the least bittern.

The DOW indicated that the Project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird and common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies and hunt over grasslands. The female builds a nest out of sticks on the ground, often on top of a mound. If these types of habitats are potentially impacted, the DOW recommends avoiding construction during the species' nesting period (April 15 through July 31). The Company's consultant identified no potentially suitable habitat within the Project; therefore, no adverse impacts are anticipated for the northern harrier.

B(10)(f) Areas of Ecological Concern

Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

In June and July 2022, wetland and stream delineation surveys were completed by the Company's consultant for a 100-foot-wide environmental survey corridor ("ESC") for the entire Fostoria – East Lima 138 kV Transmission Line, which encompasses the Project area. The Project's ecological survey report is summarized below and presented in its entirety in **Appendix E**.

Within the 100-foot-wide ESC encompassing Project, the Company's consultant identified 10 PEM wetlands; 14 streams, including one ephemeral stream, three intermittent streams, and 10 perennial streams; and two freshwater ponds.

Two existing structures along the Fostoria – East Lima 138 kV Transmission Line between North Woodcock Station and New Liberty Station are each located within a delineated PEM wetland (Wetland 1-AA and Wetland 1-AC, respectively). The existing structures will be replaced in proximity to their existing location within the PEM wetlands and the new monopole structure footprint minimizes impacts to the wetlands when compared to the existing lattice tower structure footprints. The Company will obtain proper permits from the USACE and/or the OEPA prior to construction should they be necessary.

FEMA Flood Insurance Rate Maps ("FIRMs") were reviewed to identify floodplains/flood hazard areas within the Project area: FIRM panels 39137C0320D, 39063C0315E, 39063C0310E, 39063C0305E, 39063C0295E, 39063C0230E, 39063C0215E, 39063C0205E, 39063C0195E, 39003C0125D, 39003C0115D, 39003C0095E. Based on this mapping, five (5) mapped FEMA-designated 100-year floodplain areas and one (1) FEMA-designated regulatory floodway area are crossed by the Project. Currently, seven structures along the existing Fostoria – East Lima 138 kV Transmission Line between North Woodcock Station and New Liberty Station are located within FEMA-designated 100-year floodplain or regulatory floodway areas, each of which will be replaced in proximity to the existing locations. Additionally, the Project proposes using steel monopoles, thereby minimizing the footprint within FEMA-designated 100-year floodplain or regulatory floodplain or regulatory flood areas when compared to the existing lattice tower footprints. Still, floodplain permitting may be required for the Project if a substantial change in BFE is anticipated from Project activities. Local floodplain permits will be obtained from Allen and Handcock counties prior to the start of construction should they be deemed necessary.

No other areas of ecological concern were identified within the Project area.

B(10)(g) Unusual Conditions

Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

To the best of the Company's knowledge, no unusual conditions exist that would result in significant environmental, social, health, or safety impacts.

Appendix A Project Maps





























Appendix B PJM Solution



Need Number: AEP-2021-OH030

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 1/10/2023

Previously presented:

Solution Meeting 08/19/2022

Need Meeting 05/21/2021

Project Driver: Equipment Material/Condition/Performance/Risk

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13), AEP Presentation on Pre-1930s Lines

Problem Statement:

Fostoria - East Lima 138kV

- Original Construction Date: 1924
- · Length: 41.26 miles
- Total structure count: 205
- Original Line Construction Type: Double circuit steel lattice towers with vertical insulators
- Conductor Types: 397,500 CM ACSR 30/7 (Lark) & 336,400 CM ACSR 30/7 (Oriole)
- Outage History: Since 2015, there have been 2 permanent outages and 6 momentary outages. The Ebersole – New Liberty Circuit has accounted for 19,640 customer minutes of interruption for 326 distribution customers at the Flag City Substation.
- Condition Summary: Currently, there are 44 structures with at least one open condition, which relates to 22% of the structures on this line.

AEP Transmission Zone M-3 Process Findlay, OH



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AEP Local Plan 2023



Need Number: AEP-2021-OH030

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 1/10/2023

Problem Statement (contd.):

Additional Information: Multiple issues are starting to emerge on this line indicating accelerated deterioration phase of its life. Structures inspected either aerially or by ground crews showed heavy visible corrosion on conductors and shield wire, surface rust on towers, insulator end fittings and dampers.

Additional Info on Insulator & Hardware Corrosion:

- Section Loss: The connecting elements including the tower attachment hole and the insulator hook have experienced serious cross-section loss due to corrosion and wear. This loss of metal cross-section significantly reduces the capacity of the connection
- Corrosion: The insulator caps and connecting hardware have experienced heavy to complete loss of galvanizing. When the protective galvanized coating is gone or significantly compromised, the bare steel corrodes at an accelerated rate
- Tower members with corrosion and damage. Lattice tower structures have little structural redundancy. A failure of one member of the structure will impact the integrity of the structure and may cause the entire tower to collapse.
- Customer Impact: This double-circuit line provides significant support to the Findlay area 34.5 kV and 69 kV systems via transformers at North Woodcock, New Liberty, North Findlay, and Ebersole and Flag City. Simultaneous outages at both ends of the double-circuit line would likely lead to a major area-wide outage.
- Risk: Significant deterioration results in loss of strength and performance posing a significant risk of failure under conditions the assets should be able to withstand.
 - · May cause frequent and extended outages
 - May create significant economic losses
 - May endanger public safety

AEP Local Plan 2023

AEP Transmission Zone M-3 Process Findlay, OH



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Need Number: AEP-2021-OHO30

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 1/10/2023

Solution:

- Fostoria East Lima 138: The 41.3 mile long line will be rebuilt using double circuit 795 ACSR Drake conductor. OPGW shield wire will be installed. Approximately one mile of line is being considered for greenfield construction to avoid encroachments and ROW challenges. The Boutwell, Flag City and Ebersole stations were installed recently, these line cut-ins will not be rebuilt. Estimated Cost: \$95.9M (s2812.1)
- · North Findlay N Main & North Findlay Findlay 69kV lines: The North Findlay N Main and North Findlay - Findlay 69kV lines will be modified for the Fostoria - East Lima 138kV line crossing. Estimated Cost: \$0.08M (s2812.2)

Total Estimated Transmission Cost:\$95.98M

Projected In-Service: 09/15/2026

Supplemental Project ID: s2812.1-.2

Project Status: Scoping

AEP Transmission Zone M-3 Process Fostoria - East Lima Rebuild Project



AEP Local Plan 2023

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Appendix C Property Agreement Table

Parcel ID	Agreement Type	Easement Obtained	
280001001200	Station/AEP Parcels	N/A	
	Township Road 94		
280001015754	Supplemental Existing Easement	No	
280001025248	Supplemental Existing Easement	No	
280001024958	Supplemental Existing Easement	No	
280001024959	Supplemental Existing Easement	No	
280001019181	Supplemental Existing Easement	No	
280001031331	Supplemental Existing Easement	No	
	County Road 139		
280000057170	Supplemental Existing Easement	No	
	US Highway 224		
280001015153	Supplemental Existing Easement	No	
280001015152	Supplemental Existing Easement	No	
280000057160	Supplemental Existing Easement	No	
280001004877	Supplemental Existing Easement	No	
280000058390	Supplemental Existing Easement	No	
280000058470	Supplemental Existing Easement	No	
280000058530	Supplemental Existing Easement	No	
280000058420	Supplemental Existing Easement	No	
	Township Road 89		
280000058550	Supplemental Existing Easement	No	
280000058401	Supplemental Existing Easement	No	
280000058410	Supplemental Existing Easement	No	
280000058620	Supplemental Existing Easement	No	
280000059030	Supplemental Existing Easement	No	
280000059120	Supplemental Existing Easement	No	
	County Road 86		
280000059060	Supplemental Existing Easement	No	
	Township Road 130		
280001025952	Supplemental Existing Easement	No	
280001025953	Supplemental Existing Easement	No	
280001007164	Supplemental Existing Easement	No	
280001003723	Supplemental Existing Easement	No	
280001030315	Supplemental Existing Easement	No	
280001002434	Supplemental Existing Easement	No	
State Route 12			
280001002709	Supplemental Existing Easement	No	
280000060760	Supplemental Existing Easement	No	
280000060840	Supplemental Existing Easement	No	
280000060800	Supplemental Existing Easement	No	
Township Road 128			
280001022575	Supplemental Existing Easement	No	
280000060700	Supplemental Existing Easement	No	

280000060920	Supplemental Existing Easement	No
280000060810	Supplemental Existing Easement	No
	County Road 84	
280000060940	Supplemental Existing Easement	No
280000060950	Supplemental Existing Easement	No
280001002112	Supplemental Existing Easement	No
100001021144	Supplemental Existing Easement	No
	Township Road 79	
440001018177	Supplemental Existing Easement	No
	County Road 54	
440001012576	Supplemental Existing Easement	No
	County Road 54	
440001015899	Supplemental Existing Easement	No
440001020404	Supplemental Existing Easement	No
440001020403	Supplemental Existing Easement	No
440001006791	Supplemental Existing Easement	No
440001006792	Supplemental Existing Easement	No
440001032457	Supplemental Existing Easement	No
440000114480	Supplemental Existing Easement	No
	County Road 12	
440000114460	Supplemental Existing Easement	No
440000114440	Supplemental Existing Easement	No
440001030553	Supplemental Existing Easement	No
440001028819	Supplemental Existing Easement	No
440001012057	Supplemental Existing Easement	No
440000114560	Supplemental Existing Easement	No
440001017607	Supplemental Existing Easement	No
440001017609	Supplemental Existing Easement	No
440001017608	Supplemental Existing Easement	No
440001019412	Supplemental Existing Easement	No
440001014111	Supplemental Existing Easement	No
440000114970	Supplemental Existing Easement	No
	Township Road 57	
440001030336	Supplemental Existing Easement	No
440000115200	Supplemental Existing Easement	No
440001015035	Supplemental Existing Easement	No
440001017179	Supplemental Existing Easement	No
440001018023	Supplemental Existing Easement	No
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440000118780	Supplemental Existing Easement	No
County Road 37		
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440001029451	Supplemental Existing Easement	No	
440000116200	Supplemental Existing Easement	No	
	State Route 235		
440001029509	Supplemental Existing Easement	No	
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440001032566	Supplemental Existing Easement	No	
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440001021434	Supplemental Existing Easement	No	
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440000115950	Supplemental Existing Easement	No	
440001011770	Supplemental Existing Easement	No	
County Road 26			
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440001029867	Supplemental Existing Easement	No	
440000117380	Supplemental Existing Easement	No	
Township Road 36			
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440001003369	Supplemental Existing Easement	No	
440000117410	Supplemental Existing Easement	No	
Township Road 51			
440001028645	Supplemental Existing Easement	No	
Township Road 35			
440000117730	Supplemental Existing Easement	No	
440001016929	Supplemental Existing Easement	No	
440000117570	Supplemental Existing Easement	No	
440001031871	Supplemental Existing Easement	No	
440001031872	Supplemental Existing Easement	No	
440000117720	Supplemental Existing Easement	No	
County Road 15/Rd 1			
18360004001000	Station/AEP Parcels	N/A	
Appendix D Agency Coordination Letters



In reply, refer to 2022-ALL-56512

January 3, 2023

Mr. Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212

RE: North Woodcock-New Liberty 138kV Transmission Line Rebuild Project, Richland Township, Allen County and Union and Liberty Townships, Hancock County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received December 5, 2022 regarding the proposed North Woodcock-New Liberty 138kV Transmission Line Rebuild Project, Richland Township, Allen County and Union and Liberty Townships, Hancock County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the *Phase I Archaeological Investigations for the 23.27 km (14.46 mi) North Woodcock-New Liberty 138kV Transmission Line Rebuild Project, Richland Township, Allen County and Union and Liberty Townships, Hancock County, Ohio by Ryan J. Weller (Weller & Associates, Inc. 2022).*

A literature review, visual inspection, surface collection, shovel probe and shovel test unit excavation was completed as part of the investigations. No previously identified archaeological sites are located within the project area. Two (2) new archaeological sites were identified during survey, Ohio Archaeological Inventory (OAI) #33HK1052 and 33HK1053. Neither site is recommended eligible for listing in the National Register of Historic Places (NRHP). Our office agrees with this recommendation and no additional archaeological survey is needed.

The following comments pertain to the *History/Architecture Investigations for the 23.27 km (14.46 mi) North Woodcock-New Liberty 138kV Transmission Line Rebuild Project, Richland Township, Allen County and Union and Liberty Townships, Hancock County, Ohio by Scott McIntosh (Weller & Associates, Inc. 2022).*

A literature review and field survey were completed as part of the investigations. A total of one hundred one (101) architectural resources were identified within the Area of Potential Effects (APE). Weller recommends these properties are not eligible for listing in the NRHP. Our office agrees with Weller's recommendations of eligibility.

Based on the information provided, we agree that the project as proposed will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional historic properties are discovered during implementation of this project. In such a situation, this office should be contacted. Our office also requests Weller & Associates, Inc. complete the OAI forms for OAI#33HK1052-33HK1053 as soon as possible. Please notify our office when that form have been completed. If you have any questions, please contact me at (614) 298-2022, or by e-mail at <u>khorrocks@ohiohistory.org</u> or Joy Williams at jwilliams@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Krista Horrocks, Project Reviews Manager Resource Protection and Review

RPR Serial No: 1095914, 1095915

Ohio Department of Natural Resources



MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate John Kessler, Chief 2045 Morse Road – Bldg. E-2 Columbus, OH 43229 Phone: (614) 265-6621 Fax: (614) 267-4764

August 8, 2022

Tyler Russell Environmental Solutions & Innovations, Inc. 4300 Lynn Rd, Suite 205 Ravenna, OH 44266

Re: 22-0704; AEP Ohio Transmission Company, Inc. (AEP) - Fostoria – East Lima Line Rebuild Project

Project: The proposed project involves rebuilding the existing Fostoria - East Lima transmission line.

Location: The proposed project is located in Bath, Monroe, and Richland Townships, Allen County, and Union, Blanchard, Allen, Cass, and Washington Townships, Hancock County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. 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 National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has the following data at or within one mile of the project area:

Rock Elm (Ulmus thomasii), P Least Darter (Etheostoma microperca), SC Elktoe (Alasmidonta marginata), SC Creek Heelsplitter (Lasmigona compressa), SC Kidneyshell (Ptychobranchus fasciolaris), SC Salamander Mussel (Simpsonaias ambigua), T Deertoe (Truncilla truncata), SC

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened.

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The entire state of Ohio is within the range of the Indiana bat (Myotis sodalis), a state endangered and federally endangered species, the northern long-eared bat (Myotis septentrionalis), a state endangered and federally threatened species, the little brown bat (Myotis lucifugus), a state endangered species, and the tricolored bat (Perimvotis subflavus), a state endangered species. During the spring and summer (April 1 through September 30), these species of bats predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. If trees are present within the project area, and trees must be cut, the DOW recommends cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with $DBH \ge 20$ if possible. If trees are present within the project area, and trees must be cut during the summer months, the DOW recommends a mist net survey or acoustic survey be conducted from June 1 through August 15, prior to any cutting. Mist net and acoustic surveys should be conducted in accordance with the most recent version of the "OHIO DIVISION OF WILDLIFE GUIDANCE FOR BAT SURVEYS AND TREE CLEARING". If state listed bats are documented, DOW recommends cutting only occur from October 1 through March 31. However, limited summer tree cutting may be acceptable after consultation with the DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "<u>RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES</u>." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the following listed mussel species. <u>Federally Endangered</u> clubshell (*Pleurobema clava*) rayed bean (*Villosa fabalis*)

<u>State Endangered</u> purple lilliput (*Toxolasma lividum*)

<u>State Threatened</u> pondhorn (*Uniomerus tetralasmus*) Salamander Mussel (*Simpsonaias ambigua*) Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species. This secretive species prefers wet meadows and other wetlands. The DOW recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the project area. If suitable habitat is determined to be present; the DOW recommends that a presence/absence survey be conducted, or an avoidance/minimization plan be developed and implemented by the approved herpetologist. A list of <u>approved herpetologists</u> has been provided for your convenience.

The project is within the range of the black-crowned night-heron (*Nycticorax nycticorax*), a statethreatened bird. Night-herons are so named because they are nocturnal, conducting most of their foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from April 1 through December 1 but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. These night-herons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird. This secretive marsh species prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus hudsonis*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew at <u>mike.pettegrew@dnr.ohio.gov</u> if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator

Tyler Russell

From:	Ohio, FW3 <ohio@fws.gov></ohio@fws.gov>
Sent:	Wednesday, July 27, 2022 9:30 AM
То:	Tyler Russell
Cc:	nathan.reardon@dnr.state.oh.us; Wyza, Eileen; Scott Denham; Cory Kwolek; Grant S Stuller
Subject:	AEP Fostoria – East Lima Rebuild Project in Hancock County, Ohio

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UNITED STATES DEPARTMENT OF THE INTERIOR U.S. Fish and Wildlife Service Ecological Services Office 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / Fax (614) 416-8994



Project Code: 2022-0058530

Dear Mr. Russell,

The U.S Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

<u>Federally Threatened and Endangered Species</u>: The endangered Indiana bat (*Myotis sodalis*) and threatened northern long-eared bat (*Myotis septentrionalis*) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥ 3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves, rock crevices and abandoned mines.

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we

recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule

(see <u>https://ecos.fws.gov/ecp/species/9045</u>), incidental take of Indiana bats is still prohibited without a projectspecific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present. If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats. If Indiana bats are not detected during the survey, then tree clearing may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

<u>Section 7 Coordination</u>: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

<u>Stream and Wetland Avoidance</u>: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (<u>https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf</u>). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Acting Environmental Services Administrator, at (614) 265-6387 or at <u>mike.pettegrew@dnr.state.oh.us</u>.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or <u>ohio@fws.gov</u>.

Sincerely,

Patrice Ashfield Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Eileen Wyza, ODNR-DOW

Appendix E Wetland Delineation Report

ECOLOGICAL SURVEY REPORT FOSTORIA – EAST LIMA 138KV TRANSMISSION REBUILD PROJECT BATH, MONROE, RICHLAND, UNION, BLANCHARD, LIBERTY, ALLEN, CASS, AND WASHINGTON TOWNSHIPS ALLEN AND HANCOCK COUNTIES, OHIO

23 August 2022

Prepared for:



BOUNDLESS ENERGY[®] American Electric Power 8500 Smith's Mill Road New Albany, OH 43054

Prepared by:



Environmental Solutions & Innovations, Inc.

4525 Este Avenue Cincinnati, Ohio 45232 Phone: (513) 451-1777 Fax: (513) 451-3321 Ravenna, OH • Indianapolis, IN • Orlando, FL • Springfield, MO • Pittsburgh, PA • Teays Valley, WV

Pesi 1882

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- Appendix H: Wetland and Stream Datasheets

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1.0 Introduction

American Electric Power (AEP) retained Environmental Solutions & Innovations, Inc. (ESI) to perform an ecological survey for the Fostoria – East Lima 138 kV Transmission Rebuild Project in Bath, Monroe, Richland, Union, Blanchard, Liberty, Allen, Cass, and Washington Townships in Allen and Hancock counties, Ohio within the project's proposed Area of Investigation (AOI; Appendix A, Figures 1 and 2). ESI completed a field review of the AOI from 29 June through 5 July 2022. This report outlines review of published resource materials, existing site conditions, agency coordination, and results of field investigation.

2.0 Methods

2.1 Desktop Evaluation

Prior to visiting the site, available topographic, aerial, soils, flood, and National Wetlands Inventory (NWI) mapping is reviewed to determine onsite areas that may contain aquatic resources. State stream designations, navigability, and other criteria that would determine agency jurisdiction are also reviewed.

2.2 Threatened and Endangered Species

To assist with Endangered Species Act (ESA), Bald and Golden Eagle Protection Act (BGEPA), and Migratory Bird Treaty Act (MBTA) compliance, a project review was requested, and a response was received 27 July 2022 from U.S. Fish and Wildlife Service (USFWS) Ohio Field Office (Appendix B). To identify potential conflicts with state-listed species and appropriately complete Ohio Rapid Assessment Methods (ORAMs), a request was submitted to Ohio Department of Natural Resources (ODNR) and a response was received on 8 August 2022 (Appendix B).

2.3 Aquatic Resource Delineations

Wetland delineation procedures follow the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region ERDC/EL TR-10-16 Version 2.0 (USACE 2010), and the 1987 Corps of Engineers Wetland Delineation Manual (USACE 1987). The federally regulated Ordinary High Water Mark (OHWM) of streams is delineated using the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. Delineated aquatic resources are classified according to the Classification of Wetland and Deepwater Habitats of the United States (Cowardin et al. 1979). Each wetland



identified is evaluated consistent with the Ohio Rapid Assessment Method (ORAM, Version 5.0), developed by the Ohio Environmental Protection Agency (OEPA). Streams with drainage areas less than one square mile are evaluated using the Field evaluation manual for Ohio's primary headwater habitat streams (OEPA 2020). Aquatic resource boundaries and sample points are surveyed using a GPS with sub-meter accuracy.

3.0 Results

3.1 Desktop Evaluation

3.1.1 Topography and Drainage

The project appears on the Cairo, Beaverdam, Bluffton, Rawson, McComb, Findlay, Arcadia, and Fostoria Ohio U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle maps (Appendix A, Figure 1). The AOI consists of flat agriculture and scattered woodlots with elevations ranging from approximately 755 feet to 870 feet. The site drains to the Blanchard River and South Branch Portage River.

3.1.2 Soil Survey

The Natural Resources Conservation Service (NRCS) maps 54 soil series considered hydric or partially hydric within the AOI. The NRCS soil map and hydric soils list is provided in Appendix C.

3.1.3 National Wetlands Inventory

Fifty-four NWI mapped resources were identified within the AOI. Note that NWI maps are derived from aerial photo interpretation and are suitable for general planning purposes only; they typically do not show all the wetland or watercourse resources within any given area. All areas were field reviewed. A table summarizing mapped NWI resources within the AOI is provided in Appendix D.

3.1.4 Aerial Imagery

Aerial mapping from 1984 through 2021 shows the site as dominated by agricultural fields and urban/suburban areas. Aerial representation of the site is provided in Appendix A, Figure 2.

3.2 Threatened and Endangered Species

Suitable habitat exists within the AOI for state and federal listed bat species including the Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*), little brown bat (*Myotis lucifugus*), and tricolored bat (*Perimyotis subflavus*) with agency-recommended tree clearing dates of 1 October to 31 March, if required. A desktop



assessment for features potentially suitable as bat hibernacula revealed no active or historic mining sites within 3 miles of the Project. Portal searches within the Project's AOI were concurrently completed with wetland and stream delineations, and no features potentially suitable for hibernating bats were documented. If trees within the project area require removal, the ODNR-Division of Wildlife (DOW) recommends cutting from 1 October through 31 March and, if possible, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, and trees with diameter at breast height (DBH) \geq 20 inches. If trees within the project area require cutting during summer months, the ODNR-DOW recommends completing a mist net survey or acoustic survey from 1 June through 15 August prior to any cutting.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish. Based on the project's location and no in-water work in a perennial stream is proposed, the project is not likely to impact western banded killifish.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species that prefers wet meadows and other wetlands. Based on the project's location, the type of habitat within the project area, and the work proposed, the project is not likely to impact Kirtland's snake.

The project is within the range of the black-crowned night-heron (*Nycticora nycticorax*), a state threatened bird. Night-herons are so named because they are nocturnal, conducting most foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from 1 April through 1 December but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. Night-herons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat is potentially impacted by project activities, ODNR-DOW recommends avoiding construction during the species' nesting period of 1 May through 31 July. If habitat is not impacted, the project is not likely to impact black-crowned night-heron.

The project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird that prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat is potentially impacted, ODNR-DOW recommends avoiding construction during the species' nesting period of 1 May through 31 July. If habitat is not impacted, the project is not likely to impact least bittern.

The project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird and a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest



in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat is potentially impacted, ODNR-DOW recommends avoiding construction during the species' nesting period of 15 April through 31 July. If habitat is not impacted, the project is not likely to impact northern harrier.

To reduce impacts to indigenous aquatic species and habitat, the ODNR-DOW recommends avoiding in-water work in perennial streams from 15 April to 30 June. Furthermore, if in-stream work is anticipated in streams considered suitable for freshwater mussels, the ODNR-DOW recommends completion of a mussel survey in the project area by a professional malacologist. A summary table of rare, threatened, and endangered species potentially occurring within the AOI is provided in Appendix E.

3.3 **Aquatic Resource Delineations**

Forty wetlands (including one wetland complex), 29 stream segments, one ditch segment, and six ponds were identified and delineated within the AOI and are summarized in Appendix F. Representative photographs of aquatic resources are provided in Appendix G. Field data sheets for wetland and upland sample points, ORAM, and HHEI forms are provided in Appendix H. The aquatic resource delineation map depicting resource locations is provided in Appendix A, Figure 2.

Conclusion 4.0

Desktop review and field investigations completed by ESI from 29 June through 5 July 2022 identified forty wetlands (including one wetland complex), 29 stream segments, one ditch segment, and six ponds within the AOI (Appendix A, Figure 2). Temporary or permanent impacts to these resources may require permits from the USACE and or OEPA.

ODNR and USFWS recommend seasonal tree clearing to avoid impacts to state and federally listed bat species. ODNR-DOW provided recommendations to avoid impacts to state-listed fish and mussel species. If construction cannot adhere to seasonal tree clearing dates or requires in-water work, additional coordination with the agencies and/or surveys may be needed.



5.0 Literature Cited

- Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. FWSOBS 79/31, December 1979. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. 79 pp.
- OEPA. 2020. Field methods for evaluating primary headwater streams in Ohio. Version 4.1. Ohio Environmental Protection Agency, Division of Surface Water, Columbus, Ohio. 130 pp.
- USACE. 1987. Corps of Engineers Wetlands Delineation Manual. Final Report. Wetlands Research Program Technical Report Y-87-1 (on-line edition), Waterways Experiment Station, Environmental Laboratory, Vicksburg, Mississippi. 143 pp.
- USACE. 2010. Regional supplement to the Corps of Engineers wetland delineation manual: Midwest Region (Version 2.0). ERDC/EL TR-10-16, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi. 154 pp.



APPENDIX A FIGURES

























ENVIRONMENTAL SOLUTIONS & INNOVATIONS, INC.


































































































































Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 38 of 104













Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 41 of 104










































































Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 60 of 104

























Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 66 of 104





Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 67 of 104

















Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio. Map 71 of 104 Structure Location Resource Continues Off-Site Project Centerline Area of Investigation (AOI) Soils 10-Foot USGS Contour Field-Delineated Pond National Wetland Inventory (NWI) Freshwater Emergent Wetland Freshwater Pond Deshler ⊐Feet 200 400 0 Service Layer Credits: Esri, HERE, Garmin, (c) Oper Sources: Esri, HER, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community ENVIRONMENTAL SOLUTIONS & INNOVATIONS, INC. ESI
























































































































APPENDIX B AGENCY CORRESPONDENCE/DESKTOP ASSESSMENT

Tyler Russell

From:	Ohio, FW3 <ohio@fws.gov></ohio@fws.gov>
Sent:	Wednesday, July 27, 2022 9:30 AM
То:	Tyler Russell
Cc:	nathan.reardon@dnr.state.oh.us; Wyza, Eileen; Scott Denham; Cory Kwolek; Grant S Stuller
Subject:	AEP Fostoria – East Lima Rebuild Project in Hancock County, Ohio

CAUTION: This email originated from outside of our organization. DO NOT click links or open attachments unless you recognize the sender and know the content is safe!



UNITED STATES DEPARTMENT OF THE INTERIOR U.S. Fish and Wildlife Service Ecological Services Office 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / Fax (614) 416-8994



Project Code: 2022-0058530

Dear Mr. Russell,

The U.S Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

<u>Federally Threatened and Endangered Species</u>: The endangered Indiana bat (*Myotis sodalis*) and threatened northern long-eared bat (*Myotis septentrionalis*) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥ 3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves, rock crevices and abandoned mines.

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we

recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule

(see <u>https://ecos.fws.gov/ecp/species/9045</u>), incidental take of Indiana bats is still prohibited without a projectspecific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present. If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats. If Indiana bats are not detected during the survey, then tree clearing may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

<u>Section 7 Coordination</u>: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

<u>Stream and Wetland Avoidance</u>: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (<u>https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf</u>). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Acting Environmental Services Administrator, at (614) 265-6387 or at <u>mike.pettegrew@dnr.state.oh.us</u>.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or <u>ohio@fws.gov</u>.

Sincerely,

Patrice Ashfield Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Eileen Wyza, ODNR-DOW Ohio Department of Natural Resources



MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate John Kessler, Chief 2045 Morse Road – Bldg. E-2 Columbus, OH 43229 Phone: (614) 265-6621 Fax: (614) 267-4764

August 8, 2022

Tyler Russell Environmental Solutions & Innovations, Inc. 4300 Lynn Rd, Suite 205 Ravenna, OH 44266

Re: 22-0704; AEP Ohio Transmission Company, Inc. (AEP) - Fostoria – East Lima Line Rebuild Project

Project: The proposed project involves rebuilding the existing Fostoria - East Lima transmission line.

Location: The proposed project is located in Bath, Monroe, and Richland Townships, Allen County, and Union, Blanchard, Allen, Cass, and Washington Townships, Hancock County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. 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 National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has the following data at or within one mile of the project area:

Rock Elm (Ulmus thomasii), P Least Darter (Etheostoma microperca), SC Elktoe (Alasmidonta marginata), SC Creek Heelsplitter (Lasmigona compressa), SC Kidneyshell (Ptychobranchus fasciolaris), SC Salamander Mussel (Simpsonaias ambigua), T Deertoe (Truncilla truncata), SC

Conservation status abbreviations are as follows: E =state endangered; T =state threatened; P =state potentially threatened; SC =state species of concern; SI =state special interest; U =state status under review; X =presumed extirpated in Ohio; FE =federally endangered, and FT =federally threatened.

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The entire state of Ohio is within the range of the Indiana bat (Myotis sodalis), a state endangered and federally endangered species, the northern long-eared bat (Myotis septentrionalis), a state endangered and federally threatened species, the little brown bat (Myotis lucifugus), a state endangered species, and the tricolored bat (Perimvotis subflavus), a state endangered species. During the spring and summer (April 1 through September 30), these species of bats predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. If trees are present within the project area, and trees must be cut, the DOW recommends cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with $DBH \ge 20$ if possible. If trees are present within the project area, and trees must be cut during the summer months, the DOW recommends a mist net survey or acoustic survey be conducted from June 1 through August 15, prior to any cutting. Mist net and acoustic surveys should be conducted in accordance with the most recent version of the "OHIO DIVISION OF WILDLIFE GUIDANCE FOR BAT SURVEYS AND TREE CLEARING". If state listed bats are documented, DOW recommends cutting only occur from October 1 through March 31. However, limited summer tree cutting may be acceptable after consultation with the DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "<u>RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES</u>." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the following listed mussel species. <u>Federally Endangered</u> clubshell (*Pleurobema clava*) rayed bean (*Villosa fabalis*)

<u>State Endangered</u> purple lilliput (*Toxolasma lividum*)

<u>State Threatened</u> pondhorn (*Uniomerus tetralasmus*) Salamander Mussel (*Simpsonaias ambigua*) Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species. This secretive species prefers wet meadows and other wetlands. The DOW recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the project area. If suitable habitat is determined to be present; the DOW recommends that a presence/absence survey be conducted, or an avoidance/minimization plan be developed and implemented by the approved herpetologist. A list of <u>approved herpetologists</u> has been provided for your convenience.

The project is within the range of the black-crowned night-heron (*Nycticorax nycticorax*), a statethreatened bird. Night-herons are so named because they are nocturnal, conducting most of their foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from April 1 through December 1 but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. These night-herons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird. This secretive marsh species prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus hudsonis*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew at <u>mike.pettegrew@dnr.ohio.gov</u> if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator



United States Department of the Interior

FISH AND WILDLIFE SERVICE Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 Phone: (614) 416-8993 Fax: (614) 416-8994



In Reply Refer To: Project code: 2022-0058530 Project Name: 1882 AEP Fostoria to East Lima Project June 29, 2022

Subject: Consistency letter for the '1882 AEP Fostoria to East Lima Project' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Cory Kwolek:

The U.S. Fish and Wildlife Service (Service) received on June 29, 2022 your effects determination for the '1882 AEP Fostoria to East Lima Project' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take"^[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

• Indiana Bat *Myotis sodalis* Endangered

06/29/2022

• Monarch Butterfly Danaus plexippus Candidate

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

1882 AEP Fostoria to East Lima Project

2. Description

The following description was provided for the project '1882 AEP Fostoria to East Lima Project':

Electrical transmission line rebuild

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/</u> <u>maps/@41.1088864,-83.56901324526282,14z</u>



Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

No

2. Will your activity purposefully Take northern long-eared bats?

No

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

Automatically answered No

4. [Semantic] Is the project action area located within 0.25 miles of a known northern longeared bat hibernaculum?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency

Automatically answered

No

5. [Semantic] Is the project action area located within 150 feet of a known occupied northern long-eared bat maternity roost tree?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency

Automatically answered

No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

5

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

IPaC User Contact Information

Agency:Environmental Solutions & Innovations, Inc.Name:Cory KwolekAddress:4300 Lynn Road, Suite 205City:RavennaState:OHZip:44266Emailckwolek@envsi.com

Phone: 9376712103



United States Department of the Interior

FISH AND WILDLIFE SERVICE Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 Phone: (614) 416-8993 Fax: (614) 416-8994



In Reply Refer To: Project Code: 2022-0058530 Project Name: 1882 AEP Fostoria to East Lima Project June 28, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List
Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 (614) 416-8993

Project Summary

Project Code:2022-0058530Event Code:NoneProject Name:1882 AEP Fostoria to East Lima ProjectProject Type:Distribution Line - Maintenance/Modification - Above GroundProject Description:Electrical transmission line rebuildProject Location:Formation - Above Ground

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@41.1088864,-83.56901324526282,14z</u>



Counties: Allen and Hancock counties, Ohio

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/5949</u>	Endangered
 Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: Incidental take of the northern long-eared bat is not prohibited at this location. Federal action agencies may conclude consultation using the streamlined process described at https://www.fws.gov/midwest/endangered/mammals/nleb/s7.html Species profile: https://ecos.fws.gov/ecp/species/9045 	Threatened
Insects NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species.	Candidate

Critical habitats

Species profile: https://ecos.fws.gov/ecp/species/9743

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPaC User Contact Information

Agency:Environmental Solutions & Innovations, Inc.Name:Cory KwolekAddress:4300 Lynn Road, Suite 205City:RavennaState:OHZip:44266Emailckwolek@envsi.com

Phone: 9376712103

APPENDIX C SOIL REPORT





USDA Natural Resources

Conservation Service

Web Soil Survey National Cooperative Soil Survey



Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	6	1.9	0.4%
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	6	2.3	0.4%
Blg1A1	Blount silt loam, ground moraine, 0 to 2 percent slopes	9	22.7	4.4%
Blg1B1	Blount silt loam, ground moraine, 2 to 4 percent slopes	9	45.4	8.9%
СуА	Cygnet loam, 0 to 3 percent slopes	10	0.9	0.2%
Gwg1B1	Glynwood silt loam, ground moraine, 2 to 6 percent slopes	6	19.0	3.7%
Gwg5B2	Glynwood clay loam, ground moraine, 2 to 6 percent slopes, eroded	6	3.8	0.7%
Gwg5C2	Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	7	3.0	0.6%
HrB	Houcktown loam, 2 to 6 percent slopes	5	1.7	0.3%
HuC2	Houcktown-Glynwood complex, 6 to 12 percent slopes, eroded	5	0.3	0.1%
LcD2	Lybrand silty clay loam, 12 to 20 percent slopes, eroded	0	0.2	0.0%
MbA	Medway silt loam, 0 to 2 percent slopes, occasionally flooded	5	2.7	0.5%
PmA	Pewamo silty clay loam, 0 to 1 percent slopes	91	39.5	7.7%
RdA	Rensselaer loam, 0 to 1 percent slopes	88	3.4	0.7%
SfB	Shawtown loam, 2 to 6 percent slopes	0	1.7	0.3%
ShA	Shoals silt loam, 0 to 2 percent slopes, occasionally flooded	8	1.3	0.3%

USDA

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI		
SrA	Sloan silty clay loam, till substratum, 0 to 1 percent slopes, frequently flooded	90	3.8	0.7%		
W	Water	0	0.3	0.1%		
Subtotals for Soil Surve	y Area	153.8	30.1%			
Totals for Area of Interest			511.4	100.0%		

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ArA	Aurand loam, 0 to 2 percent slopes	9	4.4	0.9%
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	6	0.9	0.2%
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	6	0.3	0.1%
Blg1A1	Blount silt loam, ground moraine, 0 to 2 percent slopes	9	46.6	9.1%
Blg1B1	Blount silt loam, ground moraine, 2 to 4 percent slopes	9	27.0	5.3%
Blg2A1	Blount loam, ground moraine, 0 to 2 percent slopes	6	3.8	0.8%
ВрА	Blount-Houcktown complex, 0 to 3 percent slopes	5	26.4	5.2%
BrA	Blount-Jenera complex, 0 to 3 percent slopes	5	3.2	0.6%
BuA	Blount-Urban land complex, 0 to 2 percent slopes	9	0.0	0.0%
DfA	Del Rey-Blount complex, 0 to 3 percent slopes	5	11.8	2.3%
FoB	Fox loam, 2 to 6 percent slopes	0	0.6	0.1%
GaB	Gallman loam, 2 to 6 percent slopes	0	1.6	0.3%
GsB	Glynwood-Blount- Houcktown complex, 1 to 4 percent slopes	7	36.5	7.1%
Gwe1B1	Glynwood silt loam, end moraine, 2 to 6 percent slopes	6	8.8	1.7%

Γ

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Gwg1B1	Glynwood silt loam, ground moraine, 2 to 6 percent slopes	6	1.7	0.3%
Gwg5B2	Glynwood clay loam, ground moraine, 2 to 6 percent slopes, eroded	6	1.1	0.2%
Gwg5C2	Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	7	3.2	0.6%
НрА	Houcktown loam, 0 to 2 percent slopes	4	1.2	0.2%
НрВ	Houcktown loam, 2 to 6 percent slopes	9	2.7	0.5%
HrB	Houcktown-Glynwood- Jenera complex, 1 to 4 percent slopes	5	1.1	0.2%
JeA	Jenera fine sandy loam, 0 to 2 percent slopes	5	0.3	0.1%
JeB	Jenera fine sandy loam, 2 to 6 percent slopes	4	2.5	0.5%
LbA	Lamberjack loam, 0 to 2 percent slopes	5	0.9	0.2%
LyE	Lybrand silt loam, 18 to 50 percent slopes	0	2.3	0.4%
McA	Medway silt loam, limestone substratum, 0 to 2 percent slopes, occasionally flooded	10	9.3	1.8%
MeA	Mermill loam, 0 to 1 percent slopes	90	0.9	0.2%
MpD3	Morley clay loam, 12 to 18 percent slopes, severely eroded	0	4.1	0.8%
OrA	Oshtemo fine sandy loam, 0 to 2 percent slopes	0	6.1	1.2%
OrB	Oshtemo fine sandy loam, 2 to 6 percent slopes	0	2.8	0.5%
OrC	Oshtemo fine sandy loam, 6 to 12 percent slopes	0	0.6	0.1%
OsB	Oshtemo sandy loam, till substratum, 2 to 6 percent slopes	0	2.4	0.5%
PmA	Pewamo silty clay loam, 0 to 1 percent slopes	91	98.5	19.3%



Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
RhA	Rensselaer loam, till substratum, 0 to 1 percent slopes	90	7.8	1.5%
RnA	Rimer loamy sand, 0 to 2 percent slopes	5	0.0	0.0%
RoA	Rimer loamy fine sand, deep phase, 0 to 2 percent slopes	5	0.0	0.0%
RtA	Rossburg silt loam, 0 to 2 percent slopes, occasionally flooded	10	1.9	0.4%
SeB	Shawtown loam, 2 to 6 percent slopes	0	2.0	0.4%
SkB	Shinrock, till substratum- Glynwood complex, 1 to 4 percent slopes	10	2.9	0.6%
SmA	Shoals silt loam, 0 to 2 percent slopes, occasionally flooded	8	0.9	0.2%
SnA	Sloan loam, 0 to 1 percent slopes, occasionally flooded	90	1.5	0.3%
SoA	Sloan silty clay loam, 0 to 1 percent slopes, occasionally flooded	94	2.4	0.5%
SpA	Sloan silty clay loam, limestone substratum, 0 to 1 percent slopes, occasionally flooded	90	5.2	1.0%
ThA	Thackery loam, till substratum, 0 to 2 percent slopes	5	2.7	0.5%
TkA	Tiderishi loam, 0 to 2 percent slopes	10	1.8	0.3%
ТрА	Tuscola fine sandy loam, 0 to 2 percent slopes	5	1.0	0.2%
ТрВ	Tuscola fine sandy loam, 2 to 6 percent slopes	5	1.1	0.2%
VaA	Vanlue loam, 0 to 2 percent slopes	2	1.9	0.4%
W	Water	0	0.1	0.0%
WeA	Westland-Rensselaer complex, 0 to 1 percent slopes	92	10.0	2.0%
Subtotals for Soil Survey Area			357.1	69.8%
Totals for Area of Interest			511.4	100.0%

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States. Federal Register. September 18, 2002. Hydric soils of the United States. Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Percent Present" returns the cumulative percent composition of all components of a map unit for which a certain condition is true. For example, attribute "Hydric Rating by Map Unit" returns the cumulative percent composition of all components of a map unit where the corresponding hydric rating is "Yes". Conditions may be simple or complex. At runtime, the user may be able to specify all, some or none of the conditions in question.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

APPENDIX D NWI TABLE



NWI Code	NWI Description Figure 2 Related Field Inventoried Resource (Wetland ID / Stream ID)		Comments	
PEM1A	Palustrine, emergent, persistent, temporary flooded	2-3	-	NWI boundary depicted on map was field verified with 1-SP-023 and does not extend into project survey area.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-3	-	NWI boundary depicted on map was field verified and does not extend into project survey area.
R5UBH	Riverine, unknown perennial, unconsolidated bottom, permanently flooded	2-4	1-028	Stream 1-028 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-7	-	NWI boundary depicted on map was field verified with 1-SP-021 and does not extend into project survey area.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-8	1-AL	Wetland 1-AL extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
PSS1C	Palustrine, scrub-shrub, broad-leaved deciduous, seasonally flooded	2-10	-	NWI boundary depicted on map was field verified with 1-SP-019 and does not extend into project survey area.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-12	-	Stream 1-027 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-13	1-AK	Wetland 1-AK extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-14	1-AJ	Wetland 1-AJ extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-14	1-AK	Wetland 1-AK extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-15	-	NWI boundary depicted on map was field verified with 1-SP-018 and does not extend into project survey area.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-16	-	NWI boundary depicted on map was field verified with 1-SP-017 and does not extend into project survey area.

R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-17	-	NWI boundary depicted on map was field verified with 1-SP-016 and does not extend into project survey area.
R5UBH	Riverine, unknown perennial, unconsolidated bottom, permanently flooded	2-18, 2-19	-	Stream 1-026 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-21,2-22	-	NWI boundary depicted on map was field verified with 1-SP-015 and does not extend into project survey area.
PFO1A	Palustrine, forested, broad-leaved deciduous, temporary flooded	2-26	-	NWI boundary depicted on map was field verified with 1-SP-013 and does not extend into project survey area.
PUBG	Palustrine, unconsolidated bottom, intermittenIty exposed	2-27,2-28	1-AH	Wetland complex 1-AH extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
PUBGx	Palustrine, unconsolidated bottom, intermittenIty exposed, excavated	2-27,2-28	1-AH PEM /1-AH PFO (2)	Wetland complex 1-AH extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-27	1-AH PFO (1)/1-AH PFO (2),1-025	Wetland complex 1-AH and stream 1-025 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-37	1-026	Stream 1-026 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-37,2-38	1-024	Stream 1-024 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-38	1-023	Stream 1-023 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-39	1-022	Stream 1-023 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-41	1-020 (Ottowa Creek)	Stream 1-023 extends outside project survey area.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-41,2-242	1-020, 1-AF, 1-AE	Stream 1-023, wetland 1-AF and wetland 1-AE extends outside project survey area.

PUBGx	Palustrine, unconsolidated bottom, intermittenlty exposed, excavated	2-44	1-AD	Wetland 1-AD extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-45	1-019	Stream 1-019 extends outside project survey area.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-46,2-27	1-017,1-018	Stream 1-017 and 1-018 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-54	1-016	Stream 1-016 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-55,2-26	1-014	Stream 1-014 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-59	1-AB,1-013	Wetland 1-AB and stream 1-013 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
PFO1C	Palustrine, forested, broad-leaved deciduous, seasonally flooded	2-60	1-AC	Wetland 1-AC extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-60	1-AC,1-015	Wetland 1-AC and stream 1-015 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
PUBG	Palustrine, unconsolidated bottom, intermittenlty exposed	2-60,2-61	1-P-006	Pond 1-P-006 extends outside project survey area.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-62	1-AA,1-012	Wetland 1-AA and stream 1-012 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
PFO1C	Palustrine, forested, broad-leaved deciduous, seasonally flooded	2-64	1-X	Wetland 1-X extends outside project survey area.
R5UBH	Riverine, unknown perennial, unconsolidated bottom, permanently flooded	2-64	1-Y,1-011	Wetland 1-Y and stream 1-011 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-66,2-67	1-010	Stream 1-010 extends outside project survey area.

PEM1A	Palustrine, emergent, persistent, temporary flooded	2-70,2-71	-	No field verified wetland
PUBGx	Palustrine, unconsolidated bottom, intermittenIty exposed, excavated	2-71	1-P-004	Pond 1-P-004 extends outside project survey area.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-75	1-R	Wetland 1-R extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-76	1-Q	Wetland 1-Q extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-78	1-009	1-009
PEM1C	Palustrine, emergent, persistent, seasonally flooded	2-79	1-K,1-P-001	None
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-79	1-M,1-008	Wetland 1-M and stream 1-008 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-82	1-007	Stream 1-007 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-83	1-007	Stream 1-007 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-86	1-D,1-006 (Rocky Ford)	Wetland 1-D and stream 1-006 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-88	1-C,1-005	Wetland 1-C and stream 1-005 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-91	1-004	Stream 1-004 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-91,2-32	1-B,1-003	Wetland 1-B and stream 1-003 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.

R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-99	Upland 1-A	No field verified stream
R4SBC	Riverine, intermittent, streambed, seasonally flooded	2-99	1-A,1-002	Wetland 1-A and stream 1-002 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	2-104	1-001	Stream 1-001 extends outside project survey area.

8/23/2022

APPENDIX E RTE TABLE



ECOLOGICAL RESOURCES INVENTORY REPORT, AEP FOSTORIA - EAST LIMA 138KV TRANSMISSION REBUILD PROJECT, ALLEN AND HANCOCK COUNTIES, OHIO

Results July 22, 2022 and August 8, 2022

RARE, THREATENED, OR ENDANGERED SPECIES HABITAT

Summary of Potential Ohio State-Listed and Federally Listed Species within the AEP AEP Fostoria - East Lima 138kV Transmission Rebuild Project Area, Allen and Hancock Counties, Ohio

Common/Scientific Name	Federal Listing ¹	State Listing ¹	Habitat Preference	Habitat Observed in Project Area?	Aviodance Dates	Agency Comment ²	Potenfial Impacts
				Birds			
Northern harrier/Circus cyaneus	N/A	E	This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands.	No	15 April through 31 July	If this type of habitat will be impacted, avoid construction during nesting 15 April through 31 July. If habitat is not impacted, the project is not likely to impact the species.	No
Black-crowned night- heron/Nycticorax nycticorax	N/A	Т	Night-herons are so named because they are nocturnal, conducting most of their foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day.	No	1 May through 31 July	If this type of habitat is impacted, avoid construction during nesting 1 May through 31 July. If habitat is not impacted, the project is not likely to impact the species.	No
Least bittern/Ixobrychus exilis	N/A	т	This marsh species prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water.	No	1 May through 31 July	If this type of habitat is impacted, avoid construction during nesting 1 May through 31 July. If this type of habitat will not be impacted, this project is not likely to impact this species.	No
		r	I	Amphibians	1		[
Kirtland's snake/Clonophis kirtlandii	N/A	T	This species prefers wet meadows and other wetlands.	No	Year round	Based on location, project area habitat type, and work proposed, the project is not likely to impact the species.	No
	1			Mammals	1		
Indiana Bat/Myostis sodalis	E	E	Suitable summer habitat for the Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed. Habitats potentially include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures.	Yes	1 April through 30 September	FWS and ODNR-DOW recommend conserving trees exhibiting loose, shaggy bark and/or crevices, holes, or cavities. Tree cutting is recommended between 1 October and 31 March. If suitable trees must be cut during summer months, ODNR-DOW recommends completion of a mist net or acoustic survey between 1 June and 15 August, prior to any cutting. If no tree removal is proposed, the project is not likely to impact this species. A desktop assessment for features potentially suitable as both libernacula was conducted and portal searches were completed within the Project's AOI. No features potentially suitable for hibernating bat use were documented.	Yes;
Northern Long-eared Bat/Myostis septentrionalis	T	Т	Suitable summer habitat for the Northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed. These habitats may also include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures.	Yes	1 April through 30 September	Same as above for Indiana Bat.	Same as above for Indiana Bat.

Little Brown Bat/Myotis lucifugus	N/A	E	During spring and summer (1 April through 30 September), the species predominately roosts in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, the species is also dependent on forest structure surrounding roost trees.	Yes	1 April through 30 September	Same as above for Indiana Bat.	Same as above for Indiana Bat.
Tricolored Bat/Perimyotis subflavus	N/A	E	During spring and summer (1 April through 30 September), the species predominately roosts in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, the species is also dependent on forest structure surrounding roost trees.	1), the species , in crevices and Yes 1 April through andent on forest Yes 30 September Same as above for Indiana Bat.		Same as above for Indiana Bat.	Same as above for Indiana Bat.
				Freshwater Muss	els		
Clubshell/Pleurobema clava	E	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)	Yes	Year round	Conduct mussel surveys if in-stream impacts are anticipated in listed streams. Relocate any mussels found prior to in-stream construction.	Yes
Rayed bean/Villosa fabalis	E	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)	Yes	Year round	Same comment as above for Clubshell	Yes
Salamander Mussell/ Simpsonaias ambigua	N/A	Т	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)	Yes	Year round	Same comment as above for Clubshell	Yes
Pond Horn/Uniomerus tetralasmus	N/A	Т	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)	Yes	Year round	Same comment as above for Clubshell	Yes
Purple lilliput/Toxolasma lividus	N/A	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)	Yes	Year round	Same comment as above for Clubshell	Yes
			<u> </u>	Fish			
Western banded killfish/Fundulus diaphanus menona	N/A	E	Found in perennial streams	Yes	15 March through 30 June	ODNR-DOW recommends no in-water work in perennial streams during avoidance dates. If no in-water work is proposed in a perennial stream, the project is not likely to impact this or other aquatic species.	Yes
'E=Endangered; T=Threatened;	S=Species C	f Concern;	SI=Special Interest		•		
"Intormation is based on literation	Jre review ir	itormation r	esponse trom ODNR-DOW and USFWS				

APPENDIX F WETLAND, STREAM AND POND TABLES



	L	ocation			Delineated	ORAM		
Wetland ID	Latitude	Longitude	Isolated? Type		Area (acre)	Score	Category	
1-A	41.1376	-83.4709	Yes	PEM	0.030	21	1	
1-B	41.1251	-83.5178	Yes	PEM	0.054	21	1	
1-C	41.1178	-83.5403	Yes	PEM	0.025	21	1	
1-D	41.1128	-83.5562	Yes	PSS	0.085	32	2	
1-E	41.1049	-83.5804	No	PEM	0.096	13	1	
1-F	41.1047	-83.5802	No	PEM	0.015	12	1	
1-G	41.1045	-83.5805	No	PEM	0.049	12	1	
1-H	41.1039	-83.5805	Yes	PEM	0.003	12	1	
1-I	41.1041	-83.5819	Yes	PEM	0.013	14	1	
1-J	41.0993	-83.6008	No	PEM	0.243	30	1	
1-К	41.0991	-83.6014	No	PEM	0.082	46	2	
1-L	41.0989	-83.6017	Yes	PEM	0.038	32	2	
1-M	41.0989	-83.6022	No	PEM	0.041	29	1	
1-N	41.0957	-83.6128	No	PEM	0.030	31	2	
1-0	41.0955	-83.6133	No	PEM	0.037	31	2	
1-P	41.0953	-83.6138	No	PEM	0.148	30	1	

1-Q	41.0928	-83.6234	Yes	PEM	0.116	17	1
1-R	41.0914	-83.6295	Yes	PEM	0.066	17	1
1-S	41.0872	-83.6481	Yes	PEM	0.033	12	1
1-T	41.0868	-83.6491	Yes	PEM	0.299	13	1
1-U	41.0825	-83.6623	Yes	PEM	0.037	26	1
1-V	41.0829	-83.6618	Yes	PEM	0.067	26	1
1-W	41.0667	-83.6958	Yes	PEM	0.051	23	1
1-X	41.0648	-83.6996	Yes	PEM	0.144	28	1
1-Y	41.0641	-83.7013	Yes	PEM	0.041	32	2
1-Z	41.0576	-83.7096	Yes	PEM	0.167	22	1
1-AA	41.0571	-83.7100	Yes	PEM	0.334	30	1
1-AB	41.0435	-83.7233	Yes	PEM	0.134	38	Mod 2
1-AC	41.0480	-83.7189	Yes	PEM	0.305	34	2
1-AD	40.9757	-83.7857	Yes	PEM	0.046	30	1
1-AE	40.9680	-83.7967	No	PEM	1.173	35	Mod 2
1-AF	40.9679	-83.7972	Yes	PEM	0.107	38	Mod 2
1-AG	40.9163	-83.8731	No	PEM	0.031	24	1
1-AH PEM	40.9057	-83.8935	Yes	PEM	1.323	38	Mod 2

1-AH PFO (1)	40.9053	-83.8942	No	PFO	0.025	38	Mod 2
1-AH PFO (2)	40.9060	-83.8940	No	PFO	1.051	38	Mod 2
1-AI	40.9022	-83.9006	No	PEM	0.046	18	1
1-AJ	40.8596	-83.9759	Yes	PEM	0.035	17	1
1-AK	40.8587	-83.9774	Yes	PEM	0.050	17	1
1-AL	40.8341	-84.0155	Yes	PEM	0.076	18	1
1-AM	40.8004	-84.0281	Yes	PEM	0.146	28	1
1-AN	40.8018	-84.0263	Yes	PEM	0.071	32	2
				6.966			

AEP Fostoria - East Lima 138kV Transmission Rebuild Project STREAM TABLE

	Location				Dellassia	Devilia		Field Evaluation		
Stream ID	Latitude	Longitude	Stream Type	Stream Name	Length (feet)	Width (feet)	Width (feet)	Method	Score	Category / Rating / OAC Designation
1-001	41.15014	-83.43847	Perennial	East Branch Portage River	101	22	18	Chapter 3745-1	N/A	WWH
1-002	41.1376	-83.4709	Intermittent	N/A	102	5	3.5	HHEI	36	Modified Class II PHW
1-003	41.1251	-83.51775	Intermittent	N/A	264	5	3.5	HHEI	48	Modified Class II PHW
1-004	41.1234	-83.5230	Perennial	South Branch Portage River	101	7	5	Chapter 3745-1	N/A	WWH
1-005	41.1178	-83.54029	Intermittent	N/A	101	4	3	HHEI	31	Modified Class II PHW
1-006	41.11274	-83.5562	Perennial	Rocky Ford	179	7	4.5	Chapter 3745-1	N/A	WWH
1-007	41.10721	-83.57478	Perennial	N/A	608	9	7	HHEI	55	Modified Class II PHW
1-008	41.0989	-83.60204	Perennial	N/A	104	8	5.5	QHEI	44	
1-009	41.0966	-83.6096	Perennial	N/A	346	9	7	QHEI	49.5	
1-010	41.0726	-83.68336	Intermittent	N/A	320	5	3.5	HHEI	47	Modified Class II PHW
1-011	41.0641	-83.70132	Intermittent	N/A	119	6	4	HHEI	41	Modified Class II PHW
1-012	41.0572	-83.70988	Perennial	N/A	158	10	8	QHEI	40.5	
1-013	41.0434	-83.7233	Perennial	Aurand Run	158	12	8	Chapter 3745-1	N/A	WWH
1-014	41.0267	-83.73853	Perennial	N/A	137	7	5	QHEI	33	
1-015	41.0478	-83.71912	Perennial	Blanchard River	103	65	50	Chapter 3745-1	N/A	WWH

8/23/2022

AEP Fostoria - East Lima 138kV Transmission Rebuild Project STREAM TABLE

1-016	41.0195	-83.74489	Intermittent	N/A	160	5	3	HHEI	42	Modified Class II PHW
1-017	40.9858	-83.77431	Perennial	Tiderishi Creek	137	10	8	Chapter 3745-1	N/A	WWH
1-018	40.9839	-83.77591	Perennial	Tiderishi Creek	492	10	8	Chapter 3745-1	N/A	WWH
1-019	40.9792	-83.78043	Perennial	Burket Ditch	134	6.5	4	Chapter 3745-1	N/A	LRW
1-020	40.9669	-83.79863	Perennial	Ottawa Creek	1271	40	30	Chapter 3745-1	N/A	WWH
1-021	40.9653	-83.80064	Ephemeral	N/A	34	2.5	1.5	HHEI	26	Modified Class II PHW
1-022	40.9541	-83.81696	Intermittent	N/A	111	4	3	HHEI	37	Modified Class II PHW
1-023	40.9499	-83.82311	Perennial	Ottawa Creek	162	40	30	Chapter 3745-1	N/A	WWH
1-024	40.94594	-83.82879	Perennial	W.B. Moyer Ditch	1403	7	5	Chapter 3745-1	N/A	MWH
1-025	40.90615	-83.89481	Perennial	Riley Creek	226	60	40	Chapter 3745-1	N/A	WWH
1-026	40.87827	-83.94457	Perennial	Cranberry Creek	218	7	5	Chapter 3745-1	N/A	MWH
1-027	40.85053	-83.99004	Perennial	N/A	133	6	4.5	HHEI	45	Modified Class II PHW
1-028	40.81726	-84.02284	Perennial	Sugar Creek	295	22	16	Chapter 3745-1	N/A	MWH
1-029	40.80996	-84.02454	Perennial	N/A	103	6.5	4	QHEI	47	
1-D-001	41.11173	-83.55962		N/A	280	3.5	2	N/A	N/A	N/A
Total:					8,061					

AEP Fostoria - East Lima 138kV Transmission Rebuild Project POND TABLE

	Locati	on	Delineated	
Pond ID	Latitude	Longitude	Area (acre)	
1-P-001	41.09908	-83.60144	0.07	
1-P-002	41.08882	-83.64121	0.00	
1-P-003	41.08824	-83.64272	0.13	
1-P-004	41.08531	-83.65527	0.15	
1-P-005	41.02011	-83.74435	0.13	
1-P-006	41.04961	-83.71733	0.15	
		Total:	0.622	

APPENDIX G SITE PHOTOS



Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-A (North)



Wetland 1-A (East)



Wetland 1-A (South)

Wetland 1-A (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-A (Soil)

Wetland 1-B (North)



Wetland 1-B (East)

Wetland 1-B (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-B (West)



Wetland 1-B (Soil)



Wetland 1-C (North)

Wetland 1-C (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-C (South)



Wetland 1-C (West)





Wetland 1-C (Soil)

Wetland 1-D (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-D (East)



Wetland 1-D (South)



Wetland 1-D (West)

Wetland 1-D (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-E (North)



Wetland 1-E (East)





Wetland 1-E (South)

Wetland 1-E (West)
Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-E (Soil)

Wetland 1-F (North)



Wetland 1-F (East)



Wetland 1-F (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-F (West)

Wetland 1-F (Soil)



Wetland 1-G (North)

Wetland 1-G (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-G (South)



Wetland 1-G (West)



Wetland 1-G (Soil)



Wetland 1-H (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-H (East)



Wetland 1-H (South)





Wetland 1-H (West)

Wetland 1-H (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-I (North)

Wetland 1-I (East)



Wetland 1-I (South)



Wetland 1-I (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-I (Soil)



Wetland 1-J (North)



Wetland 1-J (East)

Wetland 1-J (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-J (West)



Wetland 1-J (Soil)



Wetland 1-K (North)

Wetland 1-K (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-K (South)

Wetland 1-K (West)



Wetland 1-K (Soil)

Wetland 1-L (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-L (East)



Wetland 1- L (South)



Wetland 1-L (West)

Wetland 1-L (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-M (North)

Wetland 1-M (East)



Wetland 1-M (South)

Wetland 1-M (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-M (Soil)

Wetland 1-N (North)



Wetland 1-N (East)

Wetland 1-N (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-N (West)

Wetland 1-N (Soil)



Wetland 1-O (North)

Wetland 1-O (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-O (South)

Wetland 1-O (West)





Wetland 1-O (Soil)

Wetland 1-P (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-P (East)



Wetland 1-P (South)



Wetland 1-P (West)

Wetland 1-P (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-Q (North)

Wetland 1-Q (East)



Wetland 1-Q (South)

Wetland 1-Q (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-Q (Soil)



Wetland 1-R (North)





Wetland 1-R (East)

Wetland 1-R (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-R (West)



Wetland 1-R (Soil)



Wetland 1-S (North)

Wetland 1-S (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-S (South)



Wetland 1-S (West)



Wetland 1-S (Soil)



Wetland 1-T (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-T (East)

Wetland 1-T (South)



Wetland 1-T (West)

Wetland 1-T (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-U (North)



Wetland 1-U (East)







Wetland 1-U (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882







Wetland 1-V (North)





Wetland 1-V (East)

Wetland 1-V (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-V (West)

Wetland 1-V (Soil)



Wetland 1-W (North)

Wetland 1-W (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-W (South)



Wetland 1-W (West)





Wetland 1-W (Soil)

Wetland 1-X (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-X (East)

Wetland 1-X (South)





Wetland 1-X (West)

Wetland 1-X (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-Y (North)

Wetland 1-Y (East)



Wetland 1-Y (South)

Wetland 1-Y (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-Y (Soil)



Wetland 1-Z (North)





Wetland 1-Z (East)

Wetland 1-Z (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-Z (West)

Wetland 1-Z (Soil)



Wetland 1-AA (North)

Wetland 1-AA (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AA (South)





Wetland 1-AA (Soil)

Wetland 1-AB (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AB (East)



Wetland 1-AB (South)



Wetland 1-AB (West)

Wetland 1-AB (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AC (North)



Wetland 1-AC (East)



Wetland 1-AC (South)

Wetland 1-AC (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AC (Soil)



Wetland 1-AD (North)



Wetland 1-AD (East)

Wetland 1-AD (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AD (West)



Wetland 1-AD (Soil)



Wetland 1-AE (North)

Wetland 1-AE (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AE (South)



Wetland 1-AE (West)





Wetland 1-AE (Soil)

Wetland 1-AF (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AF (East)



Wetland 1-AF (South)





Wetland 1-AF (West)

Wetland 1-AF (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AG (North)

Wetland 1-AG (East)



Wetland 1-AG (South)

Wetland 1-AG (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AG (Soil)



Wetland 1-AH PFO (North)



Wetland 1-AH PFO (East)



Wetland 1-AH PFO (South)
Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AH PFO (West)



Wetland 1-AH PFO (Soil)



Wetland 1-AH PEM (North)



Wetland 1-AH PEM (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AH PEM (South)



Wetland 1-AH PEM (West)



Wetland 1-AH PEM (Soil)



Wetland 1-AI (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AI (East)



Wetland 1-AI (South)



Wetland 1-AI (West)



Wetland 1-AI (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AJ (North)



Wetland 1-AJ (East)



Wetland 1-AJ (South)

Wetland 1-AJ (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AJ (Soil)



Wetland 1-AK (North)





Wetland 1-AK (East)

Wetland 1-AK (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AK (West)



Wetland 1-AK (Soil)



Wetland 1-AL (North)

Wetland 1-AL (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AL (South)



Wetland 1-AL (West)





Wetland 1-AL (Soil)

Wetland 1-AM (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AM (East)



Wetland 1-AM (South)



Wetland 1-AM (West)

Wetland 1-AM (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AN (North)



Wetland 1-AN (East)



Wetland 1-AN (South)



Wetland 1-AN (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Wetland 1-AN (Soil)



Upland 1-A (North)



Upland 1-A (East)

Upland 1-A (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-A (West)

Upland 1-A (Soil)



Upland 1-B (North)

Upland 1-B (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

Site Location: Allen and Hancock Counties, OH

Project #: 1882



Upland 1-B (South)



Upland 1-B (West)



Upland 1-B (Soil)



Upland 1-C (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-C (East)



Upland 1-C (South)



Upland 1-C (West)

Upland 1-C (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-D (North)







Upland 1-D (South)

Upland 1-D (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-D (Soil)



Upland 1-E/F (North)





Upland 1-E/F (East)

Upland 1-E/F (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-E/F (West)



Upland 1-E/F (Soil)



Upland 1-G/H (North)



Upland 1-G/H (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-G/H (South)



Upland 1-G/H (West)





Upland 1-G/H (Soil)

Upland 1-I (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

Site Location: Allen and Hancock Counties, OH

Project #: 1882



Upland 1-I (East)

Upland 1-I (South)



Upland 1-I (West)



Upland 1-I (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-J/K/L (North)



Upland 1-J/K/L (East)





Upland 1-J/K/L (South)

Upland 1-J/K/L (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-J/K/L (Soil)



Upland 1-M (North)



Upland 1-M (East)

Upland 1-M (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-M (West)

Upland 1-M (Soil)



Upland 1-N/O/P (North)



Upland 1-N/O/P (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

Site Location: Allen and Hancock Counties, OH

Project #: 1882



Upland 1-N/O/P (South)



Upland 1-N/O/P (West)



Upland 1-N/O/P (Soil)



Upland 1-Q (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-Q (East)

Upland 1-Q (South)





Upland 1-Q (West)

Upland 1-Q (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

Site Location: Allen and Hancock Counties, OH

Project #: 1882



Upland 1-R (North)



Upland 1-R (East)



Upland 1-R (South)

Upland 1-R (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

Site Location: Allen and Hancock Counties, OH

Project #: 1882





Upland 1-R (Soil)

Upland 1-S/T (North)



Upland 1-S/T (East)



Upland 1-S/T (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-S/T (West)



Upland 1-S/T (Soil)







Upland 1-U/V (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-U/V (South)



Upland 1-U/V (West)



Upland 1-U/V (Soil)



Upland 1-W (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-W (East)



Upland 1-W (South)





Upland 1-W (West)

Upland 1-W (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-X (North)



Upland 1-X (East)



Upland 1-X (South)

Upland 1-X (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-X (Soil)

Upland 1-Y (North)



Upland 1-Y (East)

Upland 1-Y (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-Y (West)

Upland 1-Y (Soil)



Upland 1-Z (North)

Upland 1-Z (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-Z (South)



Upland 1-Z (West)



Upland 1-Z (Soil)



Upland 1-AA (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AA (East)

Upland 1-AA (South)





Upland 1-AA (West)

Upland 1-AA (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AB (North)



Upland 1-AB (East)





Upland 1-AB (South)

Upland 1-AB (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AB (Soil)



Upland 1-AC (North)



Upland 1-AC (East)



Upland 1-AC (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AC (West)



Upland 1-AC (Soil)



Upland 1-AD (North)

Upland 1-AD (East)
Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AD (South)



Upland 1-AD (West)



Upland 1-AD (Soil)

Upland 1-AE (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882





Upland 1-AE (South)







Upland 1-AE (West)

Upland 1-AE (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AF (North)



Upland 1-AF (East)



Upland 1-AF (South)

Upland 1-AF (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AF (Soil)

Upland 1-AG (North)





Upland 1-AG (East)

Upland 1-AG (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AG (West)



Upland 1-AG (Soil)



Upland 1-AH (North)



Upland 1-AH (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AH (South)



Upland 1-AH (West)





Upland 1-AH (Soil)

Upland 1-AI (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AI (East)



Upland 1-AI (South)





Upland 1-AI (West)

Upland 1-AI (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AJ (North)

Upland 1-AJ (East)



Upland 1-AJ (South)

Upland 1-AJ (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AJ (Soil)



Upland 1-AK (North)



Upland 1-AK (East)

Upland 1-AK (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AK (West)

Upland 1-AK (Soil)



Upland 1-AL (North)

Upland 1-AL (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AL (South)

Upland 1-AL (West)



Upland 1-AL (Soil)



Upland 1-AM (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AM (East)

1-AM (South)



1-AM (West)

Upland 1-AM (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AN (North)



Upland 1-AN (East)



Upland 1-AN (South)



Upland 1-AN (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-AN (Soil)



Upland 1-SP-001 (North)



Upland 1-SP-001 (East)



Upland 1-SP-001 (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882







Upland 1-SP-001 (Soil)



Upland 1-SP-002 (North)



Upland 1-SP-002 (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-002 (South)



Upland 1-SP-002 (West)



Upland 1-SP-002 (Soil)



Upland 1-SP-003 (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-003 (East)



1-SP-003 (South)



1-SP-003 (West)

Upland 1-SP-003 (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-004 (North)



Upland 1-SP-004 (East)



Upland 1-SP-004 (South)

Upland 1-SP-004 (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-004 (Soil)



Upland 1-SP-005 (North)



Upland 1-SP-005 (East)



Upland 1-SP-005 (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-005 (West)



Upland 1-SP-005 (Soil)



Upland 1-SP-006 (North)



Upland 1-SP-006 (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-006 (South)



Upland 1-SP-006 (West)



Upland 1-SP-006 (Soil)



Upland 1-SP-007 (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-007 (East)



1-SP-007 (South)



1-SP-007 (West)

Upland 1-SP-007 (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-008 (North)



Upland 1-SP-008 (East)



Upland 1-SP-008 (South)



Upland 1-SP-008 (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

Site Location: Allen and Hancock Counties, OH

Project #: 1882



Upland 1-SP-008 (Soil)



Upland 1-SP-009 (North)



Upland 1-SP-009 (East)



Upland 1-SP-009 (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-009 (West)



Upland 1-SP-009 (Soil)



Upland 1-SP-010 (North)



Upland 1-SP-010 (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-010 (South)



Upland 1-SP-010 (West)



Upland 1-SP-010 (Soil)



Upland 1-SP-011 (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-011 (East)

1-SP-011 (South)



Upland 1-SP-011 (Soil)

1-SP-011 (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-012 (North)



Upland 1-SP-012 (East)



Upland 1-SP-012 (South)

Upland 1-SP-012 (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-012 (Soil)

Upland 1-SP-013 (North)



Upland 1-SP-013 (East)



Upland 1-SP-013 (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-013 (West)



Upland 1-SP-013 (Soil)



Upland 1-SP-014 (North)



Upland 1-SP-014 (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-014 (South)

Upland 1-SP-014 (West)



Upland 1-SP-014 (Soil)



Upland 1-SP-015 (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-015 (East)



1-SP-015 (South)



1-SP-015 (West)

Upland 1-SP-015 (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-016 (North)



Upland 1-SP-016 (East)



Upland 1-SP-016 (South)



Upland 1-SP-016 (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-016 (Soil)



Upland 1-SP-017 (North)



Upland 1-SP-017 (East)

Upland 1-SP-017 (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-017 (West)

Upland 1-SP-017 (Soil)



Upland 1-SP-018 (North)

Upland 1-SP-018 (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-018 (South)



Upland 1-SP-018 (West)



Upland 1-SP-018 (Soil)



Upland 1-SP-019 (North)
Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-019 (East)

1-SP-019 (South)



Upland 1-SP-019 (Soil)

1-SP-019 (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-020 (North)

Upland 1-SP-020 (East)



Upland 1-SP-020 (South)

Upland 1-SP-020 (West)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

Site Location: Allen and Hancock Counties, OH

Project #: 1882



Upland 1-SP-020 (Soil)



Upland 1-SP-021 (North)



Upland 1-SP-021 (East)



Upland 1-SP-021 (South)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-021 (West)



Upland 1-SP-021 (Soil)



Upland 1-SP-022 (North)



Upland 1-SP-022 (East)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-022 (South)



Upland 1-SP-022 (West)



Upland 1-SP-022 (Soil)



Upland 1-SP-023 (North)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Upland 1-SP-023 (East)



1-SP-023 (South)



1-SP-023 (West)

Upland 1-SP-023 (Soil)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-001 (Upstream)

Stream 1-001 (Downstream)



Stream 1-001 (Substrate)

Stream 1-002 (Upstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-002 (Downstream)

Stream 1-002 (Substrate)



Stream 1-003 (Upstream)

Stream 1-003 (Downstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-003 (Substrate)

Stream 1-004 (Upstream)



Stream 1-004 (Downstream)

Stream 1-004 (Substrate)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-005 (Upstream)

Stream 1-005 (Downstream)



Stream 1-005 (Substrate)

Stream 1-006 (Upstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-006 (Downstream)

Stream 1-006 (Substrate)





Stream 1-007 (Upstream)

Stream 1-007 (Downstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-007 (Substrate)

Stream 1-008 (Upstream)







Stream 1-008 (Substrate)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-009 (Upstream)

Stream 1-009 (Downstream)



Stream 1-009 (Substrate)

Stream 1-010 (Upstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-010 (Downstream)

Stream 1-010 (Substrate)



Stream 1-011 (Upstream)



Stream 1-011 (Downstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-011 (Substrate)

Stream 1-012 (Upstream)



Stream 1-012 (Downstream)

Stream 1-012 (Substrate)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-013 (Upstream)

Stream 1-013 (Downstream)



Stream 1-013 (Substrate)

Stream 1-014 (Upstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-014 (Downstream)

Stream 1-014 (Substrate)





Stream 1-015 (Upstream)

Stream 1-015 (Downstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-015 (Substrate)

Stream 1-016 (Upstream)



Stream 1-016 (Downstream)

Stream 1-016 (Substrate)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-017 (Upstream)

Stream 1-017 (Downstream)





Stream 1-017 (Substrate)

Stream 1-018 (Upstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-018 (Downstream)

Stream 1-018 (Substrate)



Stream 1-019 (Upstream)

Stream 1-019 (Downstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-019 (Substrate)

Stream 1-020 (Upstream)



Stream 1-020 (Downstream)



Stream 1-020 (Substrate)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-021 (Upstream)

Stream 1-021 (Downstream)



Stream 1-021 (Substrate)



Stream 1-022 (Upstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-022 (Downstream)

Stream 1-022 (Substrate)





Stream 1-023 (Upstream)

Stream 1-023 (Downstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-023 (Substrate)

Stream 1-024 (Upstream)





Stream 1-024 (Downstream)

Stream 1-024 (Substrate)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-025 (Upstream)

Stream 1-025 (Downstream)



Stream 1-025 (Substrate)

Stream 1-026 (Upstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Stream 1-026 (Downstream)

Stream 1-026 (Substrate)



Stream 1-027 (Upstream)

Stream 1-027 (Downstream)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-027 (Substrate)

Stream 1-028 (Upstream)



Stream 1-028 (Downstream)

Stream 1-028 (Substrate)

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH



Stream 1-029 (Upstream)

Stream 1-029 (Downstream)





Stream 1-029 (Substrate)

Ditch 1-D-001

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Ditch 1-D-001







Pond 1-P-001

Pond 1-P-002

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882





Pond 1-P-002







Pond 1-P-003

Pond 1-P-004

Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:** Allen and Hancock Counties, OH Project #: 1882



Pond 1-P-004



Pond 1-P-005



APPENDIX H WETLAND AND STREAM DATASHEETS



WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: AEP Fostoria to Lima	City/County: Fostoria/Hancock	Sampling Date: 2022-06-29
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-A
Investigator(s): Beth Hollinden, Chris Davisson	_ Section, Township, Range: OH01 T2N R12E	SN10
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave, convex, none):	Concave
Slope (%): 2 Lat: 41.137569	Long:83.470898	Datum: WGS 84
Soil Map Unit Name: PmA	NWI classific	ation: R4SBC
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🗾 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" p	oresent? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	Is the Sampled Area	
Wetland Hydrology Present? Yes No	within a Wetland? Yes	No
Investigator(s): Beth Hollinden, Chris Davisson Landform (hillslope, terrace, etc.): Depression Toeslope Slope (%): 2 Lat: 41.137569 Soil Map Unit Name: PmA Are climatic / hydrologic conditions on the site typical for this time of y Are Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally pr SUMMARY OF FINDINGS – Attach site map showing Hydrophytic Vegetation Present? Yes No Hydrology Present? Yes No	Section, Township, Range: OH01 T2N R12E Local relief (concave, convex, none): Long: -83.470898 NWI classific rear? Yes 'No NWI classific rear? Yes 'No (If no, explain in R y disturbed? Are "Normal Circumstances" p roblematic? (If needed, explain any answe g sampling point locations, transects Is the Sampled Area within a Wetland? Yes	SN10 Concave Datum: WGS 84 ation: R4SBC emarks.) present? Yes _ ✓ No rs in Remarks.) , important features, etc No

Remarks:

PEM. ORAM Score of 21.

VEGETATION – Use scientific names of plants.

00.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4.				(-,
5				Percent of Dominant Species
0		- Total Car		That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10tai C0V		Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				$OBL \text{ species } 0$ $x_1 = 0$
3				FACW species 100 x 2 = 200
3				EAC species 0 $x_3 = 0$
4				EACL species 0 $x = 0$
5				$\frac{1}{10} = \frac{1}{10} $
Herb Stratum (Plot size: 5 ft r)		= Total Cov	ver	$\frac{100}{200} \times 5 = \frac{100}{200} \times 5 = \frac{100}{20}$
Phalaris arundinacea	90	~	FACW	Column Totals: 100 (A) 200 (B)
Urtica dioica	10		FACW	Prevalence Index = $B/A = 2.00$
2				Hydrophytic Vegetation Indicators:
3				1 Denid Test for Hudronbutic Vegetation
4				C Deprimented Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				\checkmark 3 - Prevalence Index is $\leq 3.0^{\circ}$
7				4 - Morphological Adaptations' (Provide supporting
8				Data in Remarks of on a separate sheet)
9				Problematic Hydrophytic Vegetation (Explain)
10				1
	100%	= Total Cov	ver	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless disturbed of problematic.
1				Hydrophytic
2				Vegetation
		= Total Cov	ver	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirn	n the absence	of indicators.)
Depth (inches)	Matrix	0/2	Redox	<u>k Feature</u> %	S Type ¹		Texture	Remarks
0 - 4	10YR 5/2	95	10YR 6/8	5	<u> </u>	 PL / M	Silty Clay	Kemarks
4 - 20	10 YR 5/1	75	10 YR 6/0	10	<u> </u>	<u>M</u>	Silty Clay	
$\frac{420}{400}$	10 TR 5/1	- 75		10				
4-20	10YR 5/1	/5	10YR 6/8	10	<u> </u>	<u>M</u>	Silty Clay	
4-20	10YR 5/1		10YR 5/6	5	<u> </u>	<u>M</u>	Silty Clay	
-								
-								
-								
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:		·				Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	Bleyed Ma	atrix (S4)		Coast I	Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy R	edox (S5	5)		Dark S	urface (S7)
Black Hi	stic (A3)		Stripped	Matrix (S	56)		Iron-Ma	anganese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy N	Aucky Mi	neral (F1)		Very S	hallow Dark Surface (TF12)
Stratified	Layers (A5)		Loamy C	Sleyed M	atrix (F2)		Other (Explain in Remarks)
2 cm Mu	ICK (A1U) I Rolow Dork Surfoo	o (A11)	Depleted	1 Matrix (F3)			
Depieted	ark Surface (A12)	e (ATT)		Ank Suna I Dark Su	irface (FO)		³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Bedox D)epressio	ns (F8)		wetland	I hydrology must be present.
5 cm Mu	icky Peat or Peat (S	3)		oproceio			unless	disturbed or problematic.
Restrictive L	_ayer (if observed)	:						
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:								
Hydric s	soil present.							
	GY							
Wetland Hv	drology Indicators:							
Primary Indic	ators (minimum of c	one is requir	red: check all that ap	olv)			Seconda	ry Indicators (minimum of two required)
	Water (A1)	no lo roqui	Water-Stai	ned Leav	es (B9)		Surfa	ace Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	una (B13)			nage Patterns (B10)
Saturatio	(A3)		True Aquat	tic Plants	, (B14)		Drv-	Season Water Table (C2)
Water M	arks (B1)		Hydrogen S	Sulfide O	dor (C1)		Crav	fish Burrows (C8)
Sedimer	nt Deposits (B2)		✓ Oxidized R	hizosphe	res on Liv	ina Roots	(C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Presence of	of Reduce	ed Iron (C4	4)	Stun	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reducti	on in Tille	d Soils (Ce	6) 🖌 Geo	morphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC	-Neutral Test (D5)
Inundatio	on Visible on Aerial	magery (B)	7) Gauge or V	Vell Data	(D9)		_	
Sparsely	Vegetated Concave	e Surface (I	38) Other (Exp	lain in Re	emarks)			
Field Observ	vations:							
Surface Wate	er Present? Y	′es I	No Depth (inc	hes): 1		_		
Water Table	Present? Y	'es 🗸	No Depth (inc	hes): 0				
Saturation Pr (includes cap	Saturation Present? Yes <u>V</u> No Depth (inches): <u>0</u> Wetland Hydrology Present? Yes <u>V</u> No							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarke								
i terridi KS.			_					
Wetland	hydrology	oresen	t.					

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: AEP Fostoria to Lima	City/County: Fostoria/Ha	ncock	Sampling Date:	2022-06-29
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-A UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R12E	SN10	
Landform (hillslope, terrace, etc.): Flat	Local relief (cond	ave, convex, none):	None	
Slope (%): 0 Lat: 41.137492	Long: -83.471096		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	nal Circumstances" p	oresent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed	, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	ls the Sampled Area within a Wetland?	Yes	No
Remarks:				

Upland point for Wetland 1-A.

VEGETATION – Use scientific names of plants.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				
5.				Percent of Dominant Species
		= Total Co		That Are OBL, FACW, OF FAC.
Sapling/Shrub Stratum (Plot size: 15 ft r)		10101-00		Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2.				OBL species x 1 =
3.				FACW species $0 \qquad x = 0$
4				FAC species 0 x 3 = 0
5				EACLI species 40 $x = 160$
0		- Total Car		$\frac{1}{100} \text{ species } \frac{1}{0} \text{ species } \frac{1}{$
Herb Stratum (Plot size: 5 ft r)		- 10tai C0	vei	Column Totals: $\frac{40}{40}$ (A) $\frac{160}{160}$ (B)
1. Thlaspi arvense	15	~	FACU	
2. Asclepias syriaca	10	~	FACU	Prevalence Index = $B/A = 4.00$
3. Cirsium arvense	10	~	FACU	Hydrophytic Vegetation Indicators:
4. Trifolium repens	5		FACU	1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
o				Problematic Hydrophytic Vegetation ¹ (Explain)
ə				
10.	40%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	4070	= Total Co	ver	be present, unless disturbed or problematic.
1				Ludronhutio
2				Hydrophytic Vegetation
£		- Total Car		Present? Yes No V
Remarks: (Include photo numbers here or on a senarate	sheet)	- 10tai C0	vei	
Remarke. (moldde proto numbers here of off a separate	011001.7			

SOIL

Profile Desc	ription: (Describ	e to the dept	h needed to docu	ment the ir	ndicator	or confir	m the absence	of indicators.)
Depth	Matrix	o to 110 dopt	Rede	x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 3/2	100					Silty Clay	
-								
							·	
-								
-								
							·	
-								
¹ Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils':
Histosol	(A1)		Sandy	Gleyed Mat	trix (S4)		Coast	Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy	Redox (S5))		Dark S	Surface (S7)
Black Hi	stic (A3)		Strippe	d Matrix (S	6)		Iron-M	langanese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky Min	eral (F1)		Very S	Shallow Dark Surface (TF12)
2 cm M	Layers (A5)		Loamy	Gleyed Ma d Matrix (F	(FZ)		Other	(Explain in Remarks)
Depleter	d Below Dark Surfs		Depiete	Dark Surfa	(F6)			
Thick Da	ark Surface (A12)		Redex	d Dark Su	face (F7)	1	³ Indicators	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox	Depression	ns (F8)		wetlan	d hydrology must be present.
5 cm Mu	icky Peat or Peat (S3)	_				unless	disturbed or problematic.
Restrictive I	Layer (if observed	d):						
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:	,							
Hydric s	soil absent.							
HYDROLO	GY							
Wetland Hy	drology Indicators	s:						
Primary India	cators (minimum of	fone is require	ed; check all that a	oply)			<u>Seconda</u>	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Leave	es (B9)		Sur	face Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	auna (B13)			Drai	inage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2)						-Season Water Table (C2)		
Water M	larks (B1)		Hydrogen	Sulfide Od	lor (C1)		Cra	yfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizospher	es on Liv	ing Roots	(C3) Sati	uration Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduce	d Iron (C4	4)	Stur	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ire	on Reductio	on in Tille	d Soils (C	6) Geo	omorphic Position (D2)
Iron Dep	Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5)							C-Neutral Test (D5)
Inundati	on Visible on Aeria	I Imagery (B7) Gauge or	Well Data	(D9)			
Sparsely	/ Vegetated Conca	ive Surface (B	8) Other (Ex	plain in Rei	marks)			
Field Obser	vations:							
Surface Wat	er Present?	Yes N	lo 🔽 Depth (in	ches):		_		
Water Table	Present?	Yes N	lo 🔽 Depth (in	ches):		_		
Saturation P	resent?	Yes N	lo 🔽 Depth (in	ches):		_ Wet	land Hydrolog	y Present? Yes No

Remarks:

Wetland hydrology absent.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

(includes capillary fringe)
Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	د Sa	ampling Date:	2022-07-02
Applicant/Owner: AEP	Stat	te: Ohio Sa	ampling Point:	1-AD
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OHO	1 T1S R9E SN1	11	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, o	convex, none): <u>C</u>	oncave	
Slope (%): 2 Lat: 40.97569	Long: -83.785701	Da	atum: WGS 8	34
Soil Map Unit Name: BIg1B1		NWI classificatio	on: PUBGx	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If n	o, explain in Rem	arks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Cir	cumstances" pres	sent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, expl	ain any answers i	n Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations	, transects, ir	mportant fe	atures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	Is the Sampled Area within a Wetland? Yes <u>No</u>
Remarks:		

PEM. ORAM score of 30.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				
3				I otal Number of Dominant Species Across All Strate: 2 (P)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
15 ft r		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 13111)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species <u>10</u> x 1 = <u>10</u>
3				FACW species 100 $x_2 = 200$
۰ ۸				EAC species 0 x 3 = 0
4				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
5				FACU species $\underbrace{0}_{x_4} x_4 = \underbrace{0}_{x_4}$
5 ftr		= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5111)	00			Column Totals: 110 (A) 210 (B)
1. Phalans arundinacea	90			1.04
2. Scirpus atrovirens	10		OBL	Prevalence Index = B/A = 1.91
3				Hydrophytic Vegetation Indicators:
4.				✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	10			
1. Vitis riparia	10		FACW	Hydrophytic
2				Vegetation
	10%	= Total Cov	er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

SOIL								
Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix		Redo	x Feature	es1	. 2		
(inches)	Color (moist)	%	Color (moist)	%		_Loc ²	Texture	Remarks
0 - 20	10YR 4/2	95	10YR 5/6	5	<u> </u>	<u>M</u>	Silty Clay	
-								
-								
-								
-								
-								
¹ Type: C=C		letion RM=	Reduced Matrix M	S=Maske	d Sand Gr	ains	² Location: PL	=Pore Lining M=Matrix
Hydric Soil	Indicators:			0-maske		unis.	Indicators for	Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy (Gleved M	atrix (S4)		Coast Prai	rie Redox (A16)
Histic Er	pipedon (A2)		Sandy F	Redox (St	5)		Dark Surfa	ce (S7)
Black Hi	stic (A3)		Stripped	d Matrix (S6)		Iron-Manga	anese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy	Mucky Mi	, neral (F1)		Very Shall	ow Dark Surface (TF12)
Stratified	Layers (A5)		Loamy	Gleyed M	atrix (F2)		Other (Exp	lain in Remarks)
2 cm Mu	ıck (A10)		 Deplete 	d Matrix ((F3)			
Depleted	d Below Dark Surfac	æ (A11)	Redox I	Dark Surf	ace (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark Si	urface (F7)	³ Indicators of h	ydrophytic vegetation and
Sandy M	lucky Mineral (S1)	2)	Redox I	Depressio	ons (F8)		wetland hy	drology must be present,
5 CM IVIL	icky Peat or Peat (S	3)					uniess dist	urbed or problematic.
Restrictive	Layer (II observed)	•						
Type:	- h h -						Hydric Soil Pre	sent? Yes 🗸 No
Depth (in	ches):							
Hydric s	soil present.							
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one is requir	ed; check all that ap	oply)			Secondary Ir	ndicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Leav	/es (B9)		Surface	Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic Fa	auna (B13	3)		🖌 Drainage	e Patterns (B10)
🖌 Saturatio	on (A3)		True Aqua	atic Plants	(B14)		Dry-Sea	son Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish	Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosphe	eres on Liv	ing Roots	(C3) Saturatio	on Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduce	ed Iron (C	4)	Stunted	or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C	6) 🖌 Geomor	phic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface	(C7)		🖌 FAC-Ne	utral Test (D5)
Inundati	on Visible on Aerial	Imagery (B7) Gauge or	Well Data	ı (D9)			
Sparsely	Vegetated Concav	e Surface (B	38) Other (Exp	plain in Re	emarks)			
Field Obser	vations:							
Surface Wat	er Present? Y	′es I	No Depth (in	ches):		_		
Water Table	Present? Y	′es I	No 🔽 Depth (in	ches):		_		
Saturation P	resent? Y	′es 🖌 🖌	No Depth (in	ches): <u>0</u>		Wet	land Hydrology Pr	esent? Yes 🖌 No
(includes cap	oillary fringe)		nitaring	nhater	aulaus !:		if available.	
Describe Re	corded Data (stream	i gauge, mo	mitoring well, aerial	photos, p	revious ins	spections),	ii avaliable:	
Remarks:								

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Han	cock	Sampling Date:	2022-07-02
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-AD UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T1S R9E S	SN11	
Landform (hillslope, terrace, etc.): Flat	Local relief (cond	ave, convex, none):	None	
Slope (%): 0 Lat: 40.975503	Long: -83.785633		Datum: WGS 8	34
Soil Map Unit Name: BIg1B1		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	oresent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locat	ions, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No _ Yes No _ Yes	v v v	ls the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AD. Mowed. Soil compacted.

00.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				TANK A CONTRACTOR
3				Total Number of Dominant Species Across All Strate: 2 (P)
۵				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
5 th rest of the second s		= Total Cov	/er	Dravalance Index warksheet:
Sapling/Shrub Stratum (Plot size:)				Prevalence index worksneet:
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
3				FACW species 0 x 2 = 0
4.				FAC species 0 x 3 = 0
5				FACU species $95 \times 4 = 380$
o		- Tatal Car		$\frac{11}{5}$
Herb Stratum (Plot size: 5 ft r)			/er	$\frac{1}{100}$
Festuca rubra	55	~	FACU	Column lotals: $\underline{100}$ (A) $\underline{403}$ (B)
Glechoma bederacea	30	<u> </u>	FACIL	Prevalence index = $B/A = 4.05$
2. Solidago canadonsis	10		FACU	
				A Devid Test (added added to Mandalian
4. Daucus carota	5		UPL	1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	1000/			¹ Indicators of hydric soil and wetland hydrology must
Weeder Vine Stratum (Distainer 30 ft r	100%	= Total Cov	/er	be present, unless disturbed or problematic.
Woody vine Stratum (Plot size:)				
1				Hydrophytic
2				Vegetation Present? Ves No
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

Depth	Matrix	e to the de	Red	ox Featur	es		in the absence	of indicators.
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 7/3	90	10YR 5/1	10	D	М	Silty Clay	Highly compacted.
-								
							·	
-				_				
-								
-								
¹ Type: C=C	oncentration, D=De	pletion, RI	M=Reduced Matrix, N	– IS=Maske	ed Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:	· · · · ·					Indicators	for Problematic Hydric Soils ³ :
Histoso	(A1)		Sandy	Gleyed N	latrix (S4)		Coast	Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy	Redox (S	5)		Dark S	Surface (S7)
Black H	istic (A3)		Strippe	ed Matrix ((S6)		Iron-M	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very S	hallow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other	(Explain in Remarks)
2 cm M	uck (A10)		Deplet	ed Matrix	(F3)			
Deplete	d Below Dark Surfa	ce (A11)	Redox	Dark Sur	face (F6)		31	
I NICK D	ark Surrace (A12)		Deplet	ed Dark S)	Indicators	s of hydrophytic vegetation and
Sandy M	ucky Mineral (51)	22)	Redox	Depressi	ons (F8)		wetiand	d hydrology must be present,
Restrictive	Laver (if observed):):						disturbed of problematic.
Type [.]		,.						
Denth (in	ches):						Hydric Soil	Present? Yes No
Deptil (III	cries).							
Remarks:								
Hydric	soil absent.							
-								
IYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one is req	uired; check all that a	pply)			Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-St	ained Lea	ves (B9)		Surf	face Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drai	inage Patterns (B10)
Saturati	on (A3)		True Aqu	atic Plant	s (B14)		Dry-	-Season Water Table (C2)
Water M	larks (B1)		Hydroger	n Sulfide C	Odor (C1)		Cray	yfish Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized	Rhizosph	eres on Liv	ing Roots	(C3) Satu	uration Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Reduc	ed Iron (C4	4)	Stur	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ir	on Reduc	tion in Tille	d Soils (C	6) Geo	pmorphic Position (D2)
Iron De	posits (B5)		Thin Muc	k Surface	(C7)		FAC	C-Neutral Test (D5)

Inundation Visible on Aerial Imagery (B7) ____Gauge or Well Data (D9)
Sparsely Vegetated Concave Surface (B8) ____Other (Explain in Remarks)
Field Observations:
Surface Water Present? Yes _____No ___ Depth (inches): ______
Water Table Present? Yes _____No ___ Depth (inches): ______
Saturation Present? Yes _____No ___ Depth (inches): ______
Wetland Hydrology Present? Yes _____No ___ Depth (inches): ______
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Findlay	//Hancock	Sampling Date:	2022-07-02
Applicant/Owner: AEP		_{State:} Ohio	Sampling Point:	1-AE
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, R	ange: OH01 T1S R9E S	SN11	
Landform (hillslope, terrace, etc.): Depression	Local relie	f (concave, convex, none)	Concave	
Slope (%): 2 Lat: 40.968542	Long: -83.795819		Datum: WGS 8	4
Soil Map Unit Name: MCA		NWI classifi	cation: R2UBH	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	"Normal Circumstances"	present? Yes	No
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If n	needed, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point	locations, transects	s, important fe	atures, etc.

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes No	Is the Sampled Area	
Wetland Hydrology Present?	Yes 🥢 No	within a Wetland?	Yes No
Remarks:			

PEM. ORAM score of 35.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
4				
т Б	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>IUU</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Cov	/er	Prevalence Index worksheet:
1 Cornus alba	5	~	FACW	Total % Cover of: Multiply by:
0				$\frac{1}{0} \frac{1}{0} \frac{1}$
2	·			$\frac{115}{115} = \frac{230}{230}$
3	·			FACTV species $\frac{113}{2}$ $\chi_2 = \frac{230}{2}$
4	·			FAC species 0 $x 3 = 0$
5				FACU species $0 \times 4 = 0$
F 44 -	5%	= Total Cov	/er	UPL species $\underline{0}$ x 5 = $\underline{0}$
Herb Stratum (Plot size: 5 Tt r)	100			Column Totals: 115 (A) 230 (B)
1. Phalaris arundinacea	100			0.00
2				Prevalence Index = B/A = 2.00
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Weedy Vine Stratum (Plot size: 30 ft r)	100%	= Total Cov	/er	be present, unless disturbed or problematic.
Vitis riparia	10	~	FACW	
				Hydrophytic
2	10%			Present? Yes No
	10%	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

SOIL								Sampling Point: I-AE	
Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absence	of indicators.)	
Depth	Matrix	•	Redo	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 20	10YR 4/2	90	10YR 5/6	5	С	м	Silty Clay		
			10111070		. <u> </u>				
-									
-									
		·							
-									
-									
	oncentration D=Den	letion RM=	Reduced Matrix M	- S=Masker	 d Sand Gr	ains	² Location	PL=Pore Lining M=Matrix	
Hydric Soil	Indicators:		-rteduced matrix, m			ums.	Indicators	for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy	Glaved Mr	atrix (SA)		Coast	Prairie Redox (A16)	
Histosol	(AT) ninedon (A2)		Sandy	Bedox (SF	aunx (34)		Coast	Surface (S7)	
Black H	istic (A3)		Strippe	d Matrix (S	56)			anganese Masses (E12)	
Black II	n Sulfide (A4)			Mucky Mi	neral (F1)		Verv S	Shallow Dark Surface (TE12)	
Stratifie	d Lavers (A5)		Loamy	Gleved M	atrix (F2)		Other	(Explain in Remarks)	
2 cm Mi	uck (A10)		V Deplete	d Matrix (F3)				
Deplete	d Below Dark Surfac	e (A11)	Redox	Dark Surfa	ace (F6)				
Thick D	ark Surface (A12)	. ,	Deplete	d Dark Su	urface (F7))	³ Indicators	s of hydrophytic vegetation and	
Sandy M	/lucky Mineral (S1)		Redox	Depressio	ns (F8)		wetland hydrology must be present,		
5 cm Mi	ucky Peat or Peat (S	3)					unless	disturbed or problematic.	
Restrictive	Layer (if observed):								
Туре:									
Depth (in	ches):						Hydric Soil	Present? Yes No No	
Remarks [.]	,								
r tornanto.									
Hydric	soil present.								
HYDROLO	GY								
Wetland Hy	drology Indicators:								
Primary Indi	cators (minimum of o	ne is requi	ed: check all that a	(vlac			Seconda	ary Indicators (minimum of two required)	
Surface	Water (A1)	ine te requi	Water-Sta	ined Leav			Sud	face Soil Cracks (B6)	
Surface	waler (AT)			Ineu Leav	(D9)		Sui		
				auna (DIS) (D14)		Dra	Careers Weter Table (CO)	
Saturati	Saturation (A3) True Aquatic Plants (B14)				Dry-	-Season Water Table (C2)			
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Cra	yfish Burrows (C8)	
Sedime	nt Deposits (B2)		Oxidized I	Rhizosphe	eres on Liv	ing Roots	(C3) Sati	uration Visible on Aerial Imagery (C9)	
Drift De	posits (B3)		Presence	of Reduce	ed Iron (C4	4)	Stur	nted or Stressed Plants (D1)	
Algal Ma	at or Crust (B4)		Recent Irc	on Reducti	ion in Tille	d Soils (C	6) 🗹 Geo	omorphic Position (D2)	
Iron Dep	posits (B5)		Thin Muck	Surface ((C7)		🖌 FAC	C-Neutral Test (D5)	
Inundati	on Visible on Aerial I	magery (B	7) Gauge or	Well Data	(D9)				
Sparsel	y Vegetated Concave	e Surface (I	38) Other (Ex	plain in Re	emarks)				
Field Obser	vations:								
Surface Wat	or Present? V		No V Depth (in	chec).					

Surface Water Present? _ No _ Yes_ Depth (inches): Water Table Present? Yes _____ No ____ Depth (inches): _____ Yes _____ No ____ Depth (inches): ____ Wetland Hydrology Present? Yes ____ No _ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-02
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-AE UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1S R9E S	SN11
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave
Slope (%): 2 Lat: 40.967317	Long: -83.797858	Datum: WGS 84
Soil Map Unit Name: MCA	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No V Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Upland point for Wetland 1-AE.

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 2 (B)
4				
5.				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
Sapling/Shruh Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
1				
2				
3				FACW species $\frac{70}{2}$ x 2 = $\frac{140}{2}$
4				FAC species 0 x 3 = 0
5				FACU species 30 x 4 = 120
		= Total Cov	er	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100 (A) 260 (B)
1. Phalaris arundinacea	55	<u> </u>	FACW	
2. Cirsium arvense	30	<u> </u>	FACU	Prevalence Index = B/A = 2.60
3. Verbesina alternifolia	15		FACW	Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Weedy Vine Stratum (Plot size: 30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody vine Stratum (Flot size)				
1				Hydrophytic
2				Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

	eded to document the indicator of c	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) % C	olor (moist)%Type ¹ L	_oc ² Texture Remarks
<u>0-20</u> <u>10YR 4/2</u> <u>100</u>		Silty Clay
-		
-		
<u> </u>		
·		
¹ Type: C=Concentration, D=Depletion, RM=Red	uced Matrix, MS=Masked Sand Grains	s. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils":
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Black Histic (A3)	Sandy Redox (S5) Stripped Matrix (S6)	Dark Surrace (S7)
Hvdrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleved Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Deptil (inclies).		
Remarks.		
Hydric soil absent.		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; of	heck all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	
High Water Table (A2)		Surface Soil Cracks (B6)
	Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Ngh Water Table (A2) Saturation (A3)	Aquatic Fauna (B13) True Aquatic Plants (B14)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)
Saturation (A3) Water Marks (B1)	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
 High Water Fable (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) 	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
 High Water Fable (R2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) 	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	
 Ingit Water Table (R2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) 	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
 Ingit Water Table (R2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) 	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Gauge or Well Data (D9)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
 Ingit Water Table (R2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) 	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
 Ingit Water Table (R2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations:	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) ✓ Geomorphic Position (D2) ✓ FAC-Neutral Test (D5)
Ingri Water Fable (R2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Depth (inches):	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) oils (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
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Ingli Water Table (R2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe)	Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	
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US Army Corps of Engineers

Project/Site: AEP Fostoria to Lima	City/County	y: Findlay/Han	cock	Sampling Date:	2022-07-02
Applicant/Owner: AEP			State: Ohio	Sampling Point:	1-AF
Investigator(s): Beth Hollinden, Chris Davisson	Section, To	ownship, Range:	OH01 T1S R9E S	N11	
Landform (hillslope, terrace, etc.): Depression		Local relief (conc	ave, convex, none):	Concave	
Slope (%): 2 Lat: 40.967741	Long: -83	3.797232		Datum: WGS 8	34
Soil Map Unit Name: MCA			NWI classifica	ation: R2UBH	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🗾 🖌 No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly	y disturbed?	Are "Norm	al Circumstances" p	resent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic?	(If needed	explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					

Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes No	Is the Sampled Area	
Wetland Hydrology Present?	Yes 🖌 No	within a Wetland? Yes No	
Remarks:			

PEM. ORAM score of 38.

20.64 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata; 2 (B)
4.				(-,
5				Percent of Dominant Species
<u>. </u>		- Total Cav		Inat Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- Total Cov	ei	Prevalence Index worksheet:
1 Salix nigra	10	~	OBL	Total % Cover of: Multiply by:
2				$OBL \text{ species}$ 10 $x_{1} = 10$
2	·			EACW species 100 $x_2 = 200$
3				$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$
4				FAC species 0 $x^3 = 0$
5				FACU species $0 \times 4 = 0$
Hash Obstance (Distained 5 ft r	10%	= Total Cov	er	UPL species $0 \times 5 = 0$
<u>Herb Stratum</u> (Plot size: <u>51(1)</u>)	100	~	FACW	Column Totals: <u>110</u> (A) <u>210</u> (B)
				Developed Index - D(A - 191
2	·			
3				Hydrophytic Vegetation Indicators:
4				✓ 1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
a				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100 %	= Total Cov	er	be present, unless disturbed or problematic.
1				
1	·			Hydrophytic Vegetation
2				Present? Yes No
Demonstrate (Include whether much and have a		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sneet.)			
Hydrophytic vegetation present.				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moisil) % Type1_Loc2 0 - 20 10VR 4/2 95 10VR 5/6 5 C M Sitty Clay -
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type* Loc* 0 - 20 10YR 4/2 95 10YR 5/6 5 C M Sitty Clay -
(incles) Color (moist) % Color (moist) % Type* Loc ² Texture Remarks 0 · 20 10YR 4/2 95 10YR 5/6 5 C M Sility Clay
0 - 20 10YR 4/2 95 10YR 5/6 5 C M Silty Clay -
Image: Secondary Indicators: Image: Secondary Indicators: Image: Secondary Indicators: Sandy Gleyed Matrix (S4) Image: Secondary Indicators: Indicators for Problematic Hydric Soils': Image: Histoc Soil Indicators: Indicators for Problematic Hydric Soils': Image: Histoc Soil Indicators: Sandy Redox (S5) Image: Histoc (A3) Sandy Redox (S5) Image: Soil Indicators: Dark Surface (S7) Image: Hydrogen Sulfide (A4) Loamy Gleyed Matrix (S6) Image: Soil Indicators: Image: Soil Indicators (F12) Image: Soil Indicators: Other (Explain in Remarks) Image: Soil Indicators (A12) Depleted Dark Surface (F1) Image: Soil Indicators (A12) Depleted Dark Surface (F1) Image: Soil Indicators (S1) Redox Depressions (F6) Image: Soil Indicators (S0) Image: Soil Indicators (S0) Restrictive Layer (If Observed): Trype:
Image: Indicators in the second s
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**rype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. **rype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. **Histosol (A1)
Image: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : Histic Epipedon (A2) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic (A3) Stripped Matrix (S6) Ioro-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) 2 cm Muck (A10) ✓ Depleted Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) ✓ Depleted Matrix (F3) East Visitace (F7) Boeled Below Dark Surface (A11) Redox Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stratified Layers (if observed): Type:
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histoscol (A1)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soil Si: Indicators for Problematic Hydric Soil Si: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histosol (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Suffide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) 2 cm Mucky (A10) ✓ Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if observed): Type:
Hydric Soil Indicators (minimum of one is required) Sandy Gleyed Matrix (S4)
□ Depleted Below Dark Surface (A11) □ Redox Dark Surface (F6) □ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) □ Sandy Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Redox Depressions (F8) □ s om Mucky Mineral (S1) □ Undepleted Depressions (F8) □ peptied memory □ unless disturbed or problematic. Restrictive Layer (if observed): □ unless disturbed or problematic. Type: □ Depth (inches): □ □ Depth (inches): □ Hydric Soil Present? Yes ✓ No ■ Redox Dark Surface (Mathematications) ✓ No ■ Surface Water (A1) □ Water-Stained Leaves (B9) Surface Soil Cracks (B6) □ Surface Water (A1) □ Water-Stained Leaves (B9) Surface Soil Cracks (B6) □ □ Surface Water (A1) □<
Restrictive Layer (if observed): Type:
Type:
Depth (inches): Hydric Soil Present? Yes _ No Remarks: Hydric soil present. Hydric soil present. Hydric soil present. Secondary Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) _ Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) _ High Water Table (A2) _ Aquatic Fauna (B13) ✓ Drainage Patterns (B10) _ Saturation (A3) _ True Aquatic Plants (B14) _ Dry-Season Water Table (C2) _ Water Marks (B1) _ Hydrogen Sulfide Odor (C1) _ Crayfish Burrows (C8) _ Sediment Deposits (B2) _ Oxidized Rhizospheres on Living Roots (C3) _ Saturation Visible on Aerial Imagery (C9) _ Drift Deposits (B3) _ Presence of Reduced Iron (C4) _ Stunted or Stressed Plants (D1) _ Algal Mat or Crust (B4) _ Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) _ Iron Deposits (B5) _ Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
Remarks: Hydric soil present. Hydric soil present. Sufface Suffer
Hydric soil present. Hydric soil present. Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)
Hydric soil present. Hydric soil present. Hydrology Metland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) ✓ Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
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Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
Iron Deposits (B5) Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)
Field Observations:
Surface Water Present? Yes No V Depth (inches):
Water Table Present? Yes No Depth (inches):

Remarks: Wetland hydrology present.

(includes capillary fringe) [Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-02
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-AF UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1S R9E S	SN11
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	Convex
Slope (%): 2 Lat: 40.96794	Long: -83.797325	Datum: WGS 84
Soil Map Unit Name: MCA	NWI classific	cation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	present? Yes 🗾 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	ers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	ls the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AF.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species	
1. Celtis occidentalis	10	<u> </u>	FAC	That Are OBL, FACW, or FAC: 5 (A)	
2. Fraxinus pennsylvanica	10	 ✓ 	FACW	Total Number of Deminent	
3. Platanus occidentalis	10	~	FACW	Species Across All Strata: 6 (B)	
4					
5				Percent of Dominant Species	
5	20%			That Are OBL, FACW, or FAC: 83.3 (A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft r)	50%	= Total Cov	er	Prevalence Index worksheet:	
Lonicera japonica	20	~	FACU	Total % Cover of: Multiply by:	
1. <u></u> 0				$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
2	·			$\frac{1}{2} = \frac{1}{2}$	
3	·			FACW species 20 $x^2 = 40$	
4				FAC species $\frac{60}{20}$ x 3 = $\frac{180}{100}$	
5				FACU species 30 x 4 = 120	
F 44 -	20%	= Total Cov	er	UPL species 0 x 5 = 0	
Herb Stratum (Plot size: 5 Tt r)	00			Column Totals: 110 (A) 340 (B)	
1. Geum canadense	30			0.00	
2. Toxicodendron radicans	20	<u> </u>	FAC	Prevalence Index = $B/A = 3.09$	
3. Viola canadensis	10		FACU	Hydrophytic Vegetation Indicators:	
4.				1 - Rapid Test for Hydrophytic Vegetation	
5.				✓ 2 - Dominance Test is >50%	
6				3 - Prevalence Index is $\leq 3.0^{1}$	
7				4 - Morphological Adaptations ¹ (Provide supporting	
<i>I</i>	·			data in Remarks or on a separate sheet)	
8	·			Problematic Hydrophytic Vegetation ¹ (Explain)	
9	·				
10	· <u> </u>			¹ Indicators of hydric soil and wetland hydrology must	
30 ft r	60%	= Total Cov	er	be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size: 30 TTT)					
1	·			Hydrophytic	
2				Vegetation	
		= Total Cov	er		
Remarks: (Include photo numbers here or on a separate s	sheet.)				
Hydrophytic vegetation present.					

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	n the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
<u>0-10</u> 10YR 4/3 100		Silty Clay
-		
-		
¹ Turne: C=Concentration D=Depletion BM=	Deduced Matrix MS=Masked Sand Crains	² l agation: Pl = Poro Lining M=Matrix
Hydric Soil Indicators:	Reduced Matrix, MS-Masked Sand Grains.	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleved Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Bedox (S5)	Dark Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.
Turse Boot		
	—	Hydric Soil Present? Yes No
Depth (inches): 10		
Remarks:		
Hydric soil absent.		
,		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is require	ed; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots	(C3) Saturation Visible on Aerial Imagery (C9)

____ Oxidized Rhizospheres on Living Roots (C3) ____ Saturation Visible on Aerial Imagery (C9)

____ Stunted or Stressed Plants (D1) ____ Drift Deposits (B3) Presence of Reduced Iron (C4) ___ Geomorphic Position (D2) ____ Algal Mat or Crust (B4) ____ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ____ Thin Muck Surface (C7) ✓ FAC-Neutral Test (D5) ____ Inundation Visible on Aerial Imagery (B7) ____ Gauge or Well Data (D9) ___ Sparsely Vegetated Concave Surface (B8) ___ Other (Explain in Remarks) Field Observations: Yes _____ No ____ Depth (inches): ____ Surface Water Present? Yes ____ No ____ Depth (inches): _____ Water Table Present? ___ No ___ Depth (inches): ___ Wetland Hydrology Present? Yes _____ No ____ Saturation Present? Yes ____ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Hancock	Sampling Date: 2022-07-03				
Applicant/Owner: AEP	State:	Dhio Sampling Point: 1-AG				
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T	1S R9E SN31				
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, conv	ex, none): <u>None</u>				
Slope (%): 0 Lat: 40.916296	Long: -83.872988	Datum: WGS 84				
Soil Map Unit Name: BIg1A1	N\	VI classification: <u>N/A</u>				
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, e	xplain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circum	stances" present? Yes 🗹 No				
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain a	any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland? Yes No
Remarks:		

PEM. ORAM score of 24.

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				(-,
5				Percent of Dominant Species
···		- Total Cov		That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 000		Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				OBL species 45 $x_1 = 45$
3				FACW species 25 x 2 = 50
۵	·			EAC species 30 $x_3 = 90$
4	·			EACLI species 0 $x = 0$
D	·			$\frac{1}{10} \text{ species } \frac{1}{2} \text{ species } \frac{1}{2$
Herb Stratum (Plot size: 5 ft r)		= Total Cov	/er	$\frac{100}{100} \times 5 = \frac{100}{100}$
1 Eleocharis palustris	30	~	OBL	
2 Rumex crispus	30	~	FAC	Prevalence Index = $B/A = 1.85$
2. Echinochloa crus-galli	25		FACW	Hydrophytic Vegetation Indicators:
Carey lurida	15			1 - Ranid Test for Hydronbytic Vegetation
				✓ 2 - Dominance Test is >50%
5	·			2 - Dominance Fest is >50%
6				3 - Prevalence Index is \$3.0
7	·			 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				1
00 fr	100%	= Total Cov	/er	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless disturbed of problematic.
1				Hydrophytic
2				Vegetation
	= Total Cover			Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Undraphytic vocatation procest				
nyurophytic vegetation present.				

Profile Desc	rintion: (Describe	to the den	th needed to docum	ent the	indicator	or confirm	n the absence of indicators)
Depth Matrix Redox Features							
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture Remarks
0 - 4	10YR 4/2	95	10YR 5/6	5	С	PL / M	Sandy Clay Loam
<u>4 ⁻ 20</u>	10YR 5/2	60	10YR 5/6	20	<u> </u>	<u>M</u>	Sandy Clay Loam
4 - 20	10YR 5/2	60	10YR 6/3	10	С	М	Sandy Clay Loam
4 - 20	10YR 5/2	60	10YR 6/1	10	D	М	Sandy Clay Loam
-							
-							
-							
		etion RM	-Reduced Matrix MS	-Maske	 d Sand Gr	ains	² Location: PL=Pore Lining M=Matrix
Hydric Soil I	ndicators:			-waske			Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	leyed M	atrix (S4)		Coast Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy R	edox (S	5)		Dark Surface (S7)
Black Hi	stic (A3)		Stripped	Matrix (S6)		Iron-Manganese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy M	/lucky Mi	neral (F1)		Very Shallow Dark Surface (TF12)
Stratified	Layers (A5)		Loamy C	Gleyed M	atrix (F2)		Other (Explain in Remarks)
2 cm Mu	ck (A10)	- (6.4.4)	Depleted	d Matrix ((F3)		
Depleted	Below Dark Surfac	e (A11)	Redox L	ark Sun	ace (F6)		³ Indiantors of hydrophytic versition and
Thick Da	Irk Surface (ATZ)		Depieted	Dark Si	unace (F7))	wetland bydrology must be present
5 cm Mu	cky Peat or Peat (S	3)		epiessie	na (i o)		unless disturbed or problematic.
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	ches):						Hydric Soil Present? Yes No
Remarks:							
Hydric s	soil present.						
HYDROLO	GY						
Wetland Hyd	drology Indicators:						
Primary Indic	ators (minimum of o	ne is requi	red; check all that ap	ply)			Secondary Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ned Leav	/es (B9)		Surface Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	una (B13	3)		Drainage Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plants	s (B14)		Dry-Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)
Sedimer	nt Deposits (B2)		🖌 Oxidized R	hizosphe	eres on Liv	ing Roots	(C3) Saturation Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence of the second seco	of Reduc	ed Iron (C4	4)	Stunted or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent Irol	n Reduct	ion in Tille	d Soils (C6	6) Geomorphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		✓ FAC-Neutral Test (D5)
Inundatio	on Visible on Aerial I	magery (B	7) Gauge or V	Vell Data	a (D9)		
Sparsely	Vegetated Concave	e Surface (B8) Other (Exp	lain in R	emarks)		
Field Observ	vations:						
Surface Wate	er Present? Y	es	No Depth (inc	:hes):		_	
Water Table	Present? Y	es	No 🦯 Depth (inc	:hes):		_	
Saturation Pr	resent? Y	es	No Depth (inc	:hes):		_ Wetl	and Hydrology Present? Yes 🔽 No
Describe Red	(Includes capillary fringe)						
Remarks:							
Wetland	hydrology p	oresen	t.				

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Han	cock	Sampling Date:	2022-07-03
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-AG UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	0H01 T1S R9E S	SN31	
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve, convex, none):	None	
Slope (%): 0 Lat: 40.916209	Long: -83.872928		Datum: WGS 8	34
Soil Map Unit Name: Blg1A1		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norma	al Circumstances" p	oresent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed,	explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Upland point for Wetland 1-AG.

20 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species		
1				That Are OBL, FACW, or FAC: 2 (A)		
2				Total Number of Dominant		
3				Species Across All Strata: 3 (B)		
4.				()		
5				Percent of Dominant Species		
		= Total Cov		That Are OBL, FACW, of FAC: 00.7 (A/B)		
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 000		Prevalence Index worksheet:		
1.				Total % Cover of: Multiply by:		
2				OBL species 5 x 1 = 5		
3				FACW species $\overline{65}$ x 2 = $\overline{130}$		
a				EAC species 10 x 3 = 30		
4				EACH appearing $\frac{20}{20}$ $\times 4 = \frac{80}{80}$		
5				$\frac{1}{10}$		
Herb Stratum (Plot size: 5 ft r)		= Total Cov	ver	$\frac{100}{245} = \frac{100}{245}$		
Echinochloa crus-galli	30	~	FACW	Column Totals: 100 (A) 243 (B)		
Phalaris arundinacea	20	<u> </u>	FACW	Prevalence Index = $B/A = 2.45$		
2. Trifolium pratense	20		FACIL	Hydrophytic Vegetation Indicators:		
	15		EACW	1 Papid Test for Hydrophytic Vegetation		
	10					
5. Rumex crispus	10		FAC	2 - Dominance Test is >50%		
6. Scirpus atrovirens	5		OBL	3 - Prevalence Index is ≤3.0'		
7				4 - Morphological Adaptations' (Provide supporting		
8				data in Remarks of on a separate sheet)		
9				Problematic Hydrophytic Vegetation (Explain)		
10						
	100%	= Total Cov	/er	¹ Indicators of hydric soil and wetland hydrology must		
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless disturbed or problematic.		
1				Hydrophytic		
2				Vegetation		
		= Total Cov	/er	Present? Yes No No		
Remarks: (Include photo numbers here or on a separate sheet.)						
	-					
Hydrophytic vegetation present.						

Profile Des	cription: (Describe	e to the de	pth needed to docu	ment the	indicator	or confir	m the absence	of indicato	ors.)		
Depth (inches)	Color (moist)	%	Color (moist)	ox Feature %	es Type ¹	l oc ²	Texture		Remarks		
0 - 10	10YR 6/3	90	10YR 5/6	10	<u>C</u>	M	Silty Clay	Highly o	compacte	d	
-											
-											
-											
¹ Type: C=C	oncentration, D=De	pletion, RM	I=Reduced Matrix, M	IS=Maske	ed Sand Gr	ains.	² Location	: PL=Pore	Lining, M=M	latrix.	
Hydric Soil	Indicators:		·				Indicators	for Proble	matic Hydri	c Soils ³ :	
Histoso Histic E Black H Hydrog Stratifie 2 cm M	I (A1) pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) uck (A10)		Sandy Sandy Strippe Loamy Loamy Deplete	Gleyed M Redox (S d Matrix (Mucky M Gleyed M ed Matrix	latrix (S4) 5) (S6) lineral (F1) latrix (F2) (F3)		Coast Dark S Iron-M Very S Other	Prairie Red Surface (S7) anganese M Shallow Dark (Explain in I	ox (A16) Masses (F12 & Surface (TR Remarks)) F12)	
Deplete	d Below Dark Surfa	ce (A11)	Redox	Dark Sun ed Dark S	iace (F6) Surface (F7	`	³ Indicators	of hydroph	vtic vegetati	on and	
Sandy I	Mucky Mineral (S1)		Redox	Depressi	ons (F8)	,	wetland hydrology must be present.				
5 cm M	ucky Peat or Peat (53)			. ,		unless	disturbed o	or problemati	C.	
Restrictive Type: <u>R</u> Depth (in	Layer (if observed oot uches): <u>10</u>):					Hydric Soil	Present?	Yes	No	v
Remarks:											
Hydric	soil absent.										
HYDROLC	GY										
Wetland Hy	drology Indicators	:									
Primary Indi	cators (minimum of	one is requ	iired; check all that a	pply)			Seconda	ary Indicator	rs (minimum	of two rec	<u>quired)</u>
Surface	Water (A1)		Water-Sta	ained Lea	ves (B9)		Surl	ace Soil Cr	acks (B6)		
High W	ater Table (A2)		Aquatic F	auna (B1	3)		Drai	inage Patter	rns (B10)		
Saturati	ion (A3)		True Aqua	s (B14)	Dry-Season Water Table (C2)						

____ Hydrogen Sulfide Odor (C1)

____ Thin Muck Surface (C7)

___ Gauge or Well Data (D9)

Depth (inches): _____

Depth (inches):

__ No ____ Depth (inches): ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Presence of Reduced Iron (C4)

____ Recent Iron Reduction in Tilled Soils (C6)

_	Dry-Season Wate	er Ta
		(00)

Wetland Hydrology Present? Yes ____

- ___ Crayfish Burrows (C8)
- ____ Oxidized Rhizospheres on Living Roots (C3) ____ Saturation Visible on Aerial Imagery (C9)
 - ____ Stunted or Stressed Plants (D1)
 - ___ Geomorphic Position (D2)
 - ✓ FAC-Neutral Test (D5)

Wetland hydrology absent.

____ Water Marks (B1)

___ Drift Deposits (B3)

___ Iron Deposits (B5)

Field Observations:

Water Table Present?

Saturation Present?

Remarks:

Surface Water Present?

(includes capillary fringe)

____ Algal Mat or Crust (B4)

_ Sediment Deposits (B2)

____ Inundation Visible on Aerial Imagery (B7)

_ Sparsely Vegetated Concave Surface (B8) ___ Other (Explain in Remarks)

Yes ____ No _

Yes ____ No _

Yes ____

____ No ____

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Sampling Date: 2022-07-03				
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-AH PEM				
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1S R8	E SN36				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, no	ne): Concave				
Slope (%): 2 Lat: 40.906075	Long: -83.892758	Datum: WGS 84				
Soil Map Unit Name: MbA	NWI clas	sification: PUBG/PUBGx/R2UBH				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Circumstance	es" present? Yes 🔽 No				
Are Vegetation, Soil, or Hydrology naturall	ly problematic? (If needed, explain any an	swers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes 🔽 No	Is the Sampled Area					

within a Wetland?

Remarks:	
PEM. ORAM score of 38.	

Wetland Hydrology Present?

VEGETATION - Use scientific names of plants.

Yes 🖌 No 🔜

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				
5.				Percent of Dominant Species
		= Total Cov		
Sapling/Shrub Stratum (Plot size: 15 ft r)		10101 001		Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2.				OBL species 0 x 1 = 0
3.				FACW species 85 x 2 = 170
4				FAC species 0 x 3 = 0
5				FACU species 15 $x = 60$
<u>. </u>		- Total Cox		$ \text{IPL species } 0 \qquad x = 0$
Herb Stratum (Plot size: 5 ft r)		- 10(a) C0(/ei	Column Totals: 100 (A) 230 (B)
1. Phalaris arundinacea	85	~	FACW	
2. Cirsium arvense	15		FACU	Prevalence Index = $B/A = 2.30$
3.				Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is $\leq 3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
3				
10.	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	10070		/er	be present, unless disturbed or problematic.
1.				Hudrophytic
2				Vegetation
a •		= Total Cov		Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)	- 10(a) 00(1
Hydrophytic vegetation present.				

Yes 🖌 No 🔄

SOIL								Sampling Point: TATTEM	
Profile Desc	ription: (Describ	e to the de	oth needed to docu	ment the	indicator	or confirm	n the absence of	f indicators.)	
Depth	Matrix		Redo	ox Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 20	10YR 5/2	85	10YR 5/6	15	С	Μ	Sandy Clay Loam		
-									
-									
-									
<u> </u>									
¹ Type: C=Co	oncentration, D=D	epletion, RM	Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location:	PL=Pore Lining, M=Matrix.	
Hydric Soil	indicators:						Indicators for	or Problematic Hydric Soils':	
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		Coast Pr	airie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy	Redox (S	5)		Dark Sur	face (S7)	
Black Hi	stic (A3)		Strippe	d Matrix (S6)		Iron-Man	iganese Masses (F12)	
Hydroge	n Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very Sha	allow Dark Surface (TF12)	
Stratified	Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other (E	xplain in Remarks)	
2 cm Mu	ICK (A1U) I Rolow Dork Surf		Deplete	o Matrix	(F3) (F8)				
Depieted	a below Dark Suna	ace (ATT)	Redox	Dark Sun	ace (FO) urface (E7)	3 In alternation of the description of the second state of the second		
Thick Da	lucky Mineral (S1)		Depiete	Depressi	unace (F7))	wetland bydrology must be present		
5 cm Mu	icky Peat or Peat ((\$3)		Depressi	5113 (1 0)		unless di	isturbed or problematic	
Restrictive I	aver (if observed	d):							
Type:		-,-							
Depth (in)	abee):						Hydric Soil P	resent? Yes 🧹 No	
Deptil (int									
Remarks:									
Hvdric s	soil present	t.							
	•								
HYDROLO	GY								
Wetland Hvo	drology Indicator	s:							
Primary India	ators (minimum o	f one is requ	ired: check all that a	(vlac			Secondary	Indicators (minimum of two required)	
Surface	Motor (A1)	r one is requ	Water Sta	upod Loo			<u>Surface</u>	a Soil Crocks (R6)	
Suitace	tor Table (A2)				ves (D9)		Ouriad	Re Botterne (B10)	
				auria (Dia) (P14)			age Fallenis (BTO)	
	on (AS)		True Aqua		5 (D14)		Dry-Se	ab Burrows (C2)	
Water W	arks (DT)		Hydrogen	Suilide C		ing Dooto	(C2) Crayin	sin Burrows (Co)	
Sedimer	(B2)			Anizosphi of Doduc	eres on Liv		(C3) Satura	ation Visible on Aerial Imagery (C9)	
	DOSITS (B3)		Presence	of Reduc	ed Iron (C	4) 	Stunte	ed or Stressed Plants (D1)	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6							6) <u>v</u> Geom	orphic Position (D2)	
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5)									
Inundatio	on Visible on Aeria	al Imagery (E	Gauge or	Well Data	a (D9)				
Sparsely	Vegetated Conca	ave Surface	(B8) Other (Ex	plain in R	emarks)				
Field Obser	vations:		<i>.</i>						
Surface Wate	er Present?	Yes	No Depth (in	ches):		_			
Water Table Present? Yes No Depth (inches):									
Saturation Pr	resent?	Yes 🖌	No Depth (in	ches): <u>0</u>		Wet	land Hydrology I	Present? Yes 🖌 No	
(includes cap	oillary fringe)		anitaring well as del	nhat	raulaus !	mantianci	if available:		
Describe Rec	Lorded Data (Strea	in gauge, m	ontoning well, aerial	priotos, p	evious in	spections),	, ii avaliable:		

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen		Sampling Date:	2022-07-03		
Applicant/Owner: AEP	St	_{ate:} Ohio g	Sampling Point:	1-AH PFO 1		
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH	01 T2S R8E SM	N1			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave	, convex, none):	Concave			
Slope (%): 2 Lat: 40.905319	Long: -83.894161		Datum: WGS 8	4		
Soil Map Unit Name: MbA		NWI classificat	tion: PUBG/PU	JBGx/R2UBH		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No (If	no, explain in Rei	marks.)			
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal C	ircumstances" pre	esent? Yes	No		
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If needed, exp	plain any answers	in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present?	Yes No	
Hydric Soil Present?	Yes No	Is the Sampled Area
Wetland Hydrology Present?	Yes 🖌 No	within a Wetland? Yes Ves No
Remarks:		4

PFO. ORAM score of 38.

20.64 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1. Aesculus glabra	35	<u> </u>	FAC	That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species
5	25%			That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)	55%	= Total Cov	er	Prevalence Index worksheet:
<u></u>				Total % Cover of: Multiply by:
0				$\begin{array}{c} \hline \hline$
2				
3				FACTV species $\frac{40}{25}$ $\chi_2 = \frac{105}{105}$
4				FAC species 33 $x^3 = 105$
5				FACU species $0 \times 4 = 0$
5 ft r		= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 51(1))	15			Column Totals: <u>75</u> (A) <u>185</u> (B)
1. Phalans arundinacea	15			
2. Verbesina alternifolia	15	<u> </u>	FACW	Prevalence Index = B/A = 2.47
3. Carex grayi	10	<u> </u>	FACW	Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
0				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	400/			¹ Indicators of hydric soil and wetland hydrology must
Weath View Obstance (Distained 30 ft r	40%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1				Hydrophytic
2				Vegetation Present? Ves No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

Profile Desc	ription: (Describe	to the dep	oth needed to docum	ent the i	ndicator	or confirr	n the absence of	indicators.)
Depth	Matrix		Redox	Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 4/2	95	10YR 5/6	5	<u>C</u>	M	Sandy Clay Loam	
-								
-								
-								
¹ Type: C=Co	oncentration, D=Dep	oletion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	indicators:						Indicators for	r Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	leyed Ma	atrix (S4)		Coast Pra	airie Redox (A16)
Histic Ep	opedon (A2)		Sandy R	edox (S5))		Dark Surf	ace (S7)
Hydroge	siic (A3) n Sulfide (A4)		Supped	watrix (c	oo) Deral (F1)		Iron-Mang	Janese Masses (FT2) llow Dark Surface (TE12)
Stratified	Lavers (A5)		Loamy C	Bleved Ma	atrix (F2)		Other (Ex	plain in Remarks)
2 cm Mu	ick (A10)		✓ Depleted	d Matrix (F3)			
Depleted	d Below Dark Surfac	e (A11)	Redox D	ark Surfa	ace (F6)			
Thick Da	ark Surface (A12)		Depleted	d Dark Su	irface (F7))	³ Indicators of	hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox D	epressio)	ns (F8)		wetland h	ydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)					unless dis	sturbed or problematic.
Tuno	_ayer (if observed)							
Type:							Hydric Soil Pr	esent? Yes 🖌 No
Depth (Ind	cnes):							
Hydric s	soil present.							
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	ators (minimum of o	one is requ	ired; check all that ap	ply)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ned Leav	es (B9)		Surface	e Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	una (B13)		Drainag	ge Patterns (B10)
Saturatio	on (A3)		True Aquat	tic Plants	(B14)		Dry-Se	ason Water Table (C2)
Water M	arks (B1)		Hydrogen S	Sulfide O	dor (C1)		Crayfis	h Burrows (C8)
Sedimer	t Deposits (B2)		Oxidized R	hizosphe	res on Liv	ing Roots	(C3) Saturat	tion Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence of Beaant last	T Reduce		1) d Calla (C	Stunted	d or Stressed Plants (D1)
Aigai ivia	at or Crust (B4)		Recent Irol	1 Reducti		a Solis (C		outral Tast (D5)
Iron Dep	osits (DD)	Imagany (F	(7) Gauge or)	Surface (FAC-N	ediral Test (D5)
Inunuali	Vegetated Concav	e Surface i	(B8) Other (Evo	ain in Re	(D9) marke)			
Field Obser	vations:	e oundee i			markoj			
Surface Wat	er Present?	'es	No Cepth (inc	hes):				
Water Table	Present?	'es	No V Depth (inc	:hes):		-		
Saturation P	resent?	'es	No V Depth (inc	:hes):		— Wet	land Hydrology P	resent? Yes 🖌 No
(includes cap Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial p	hotos, pr	evious ins	pections),	, if available:	
Pomerke								
rtemarks:								
Wetland	hydrology	presen	it.					

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Samp	oling Date: 2022-07-03
Applicant/Owner: AEP	State	Ohio Samp	ling Point: 1-AH PFO 2
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01	T1S R8E SN36	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, co	onvex, none): <u>Con</u>	cave
Slope (%): 2 Lat: 40.90608	Long: -83.893936	Datur	m: WGS 84
Soil Map Unit Name: MbA	-	NWI classification:	PUBG/PUBGx/R2UBH
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no	, explain in Remark	s.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circ	umstances" present	? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explai	n any answers in R	emarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations,	transects, imp	ortant features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland? Yes <u>V</u> No
Remarks:		

PFO. ORAM score of 38.

VEGETATION – Use scientific names of plants.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. Acer negundo	15	<u> </u>	FAC	That Are OBL, FACW, or FAC: 8 (A)
2. Aesculus glabra	15	<u> </u>	FAC	Total Number of Deminent
3. Quercus velutina	10			Species Across All Strata: 8 (B)
4. Ulmus americana	10		FACW	
5. Prunus serotina	5		FACU	That Are OBL, FACW, or FAC: 100 (A/B)
	55%	= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1. Acer negundo	10	~	FAC	Total % Cover of:Multiply by:
2. Ulmus americana	10	 ✓ 	FACW	OBL species 0 x 1 = 0
3. Aesculus glabra	5	~	FAC	FACW species 80 x 2 = 160
4				FAC species <u>60</u> x 3 = <u>180</u>
5.				FACU species <u>15</u> x 4 = <u>60</u>
	25%	= Total Cov	er	UPL species <u>0</u> x 5 = <u>0</u>
Herb Stratum (Plot size: <u>5 ft r</u>)				Column Totals: 155 (A) 400 (B)
1. Lysimachia nummularia	25	~	FACW	
2. Phalaris arundinacea	15	~	FACW	Prevalence Index = $B/A = 2.58$
3. Bidens frondosa	10		FACW	Hydrophytic Vegetation Indicators:
4. Parthenocissus quinquefolia	10		FACU	1 - Rapid Test for Hydrophytic Vegetation
5. Pilea pumila	10		FACW	∠ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
10.	70%	= Total Cov		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		- 10(a) 000		be present, unless disturbed or problematic.
1. Toxicodendron radicans	15	~	FAC	Hydrophytic
2				Vegetation
	15%	= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate	sheet.)			1
	,			

Hydrophytic vegetation present.

Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the i	indicator	or confirm	n the absence o	of indicators.)
Depth	Matrix		Redox	Feature	e			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	_Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 4/2	95	10YR 5/6	5	С	м	Sandy Clay Loam	
——								
-								
-								
-								
		·						
-								
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	leyed Ma	atrix (S4)		Coast P	rairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy R	edox (S5	5)		Dark Su	rface (S7)
Black Hi	stic (A3)		Stripped	Matrix (S	66)		Iron-Ma	nganese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy N	lucky Mir	neral (F1)		Very Sh	allow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy G	leyed Ma	atrix (F2)		Other (E	Explain in Remarks)
2 cm Mu	ick (A10)		Depleted	Matrix (F3)			
Depleted	d Below Dark Surfac	e (A11)	Redox D	ark Surfa	ace (F6)		3	
I NICK Da	Ark Surface (A12)		Depleted	Dark Su)	Indicators	br hydrophytic vegetation and
Sandy w	ucky Peat or Peat (S1)	3)		epressio	ns (Fo)			listurbed or problematic
Restrictive I	aver (if observed)	5)						isturbed of problematic.
Type								
Type.							Hydric Soil F	Present? Yes 🖌 No
Depth (Inc	cnes):							
Remarks:								
Hydric	soil present.							
HYDROLO	GY							
Wetland Hv	drology Indicators:							
Primary India	ators (minimum of o	ne is requi	ed: check all that an	olv)			Secondar	v Indicators (minimum of two required)
Surface	Water (A1)	no lo roqui	Water-Stair				✓ Surfa	ce Soil Cracks (B6)
Ligh Wa	vialer (AT)			IEU LEAV	es (D9)			age Patterns (B10)
Saturati	(A2)			ina (BIS	/ (P14)			age Fallenis (BT0)
Saturation	lorko (P1)				(D14)		Dry-S	ich Burrowa (C2)
Water W	arks (DT)					ing Pooto		ation Visible on Asriel Imagen (CO)
Drift Dor	(B2)		Oxidized R	f Doduce	d Iron (C		(C3) Satur	ad or Strospod Plants (D1)
	ousits (D3)		Presence o	Beduct		t) d Saila (Ci	Sturit	ed of Stressed Flants (DT)
			Recent for			a Solis (C		Novitral Tast (D5)
Iron Dep	DOSITS (B5)	(D		Sunace ((07)		PAC-	Neutral Test (D5)
	on visible on Aerial I	magery (B)	Gauge or v	vell Data	(D9)			
Sparsely	/ vegetated Concave	e Surrace (i	38) Other (Exp	ain in Re	emarks)			
Field Obser	vations:							
Surface Wate	er Present? Y	es	No Depth (inc	hes):		-		
Water Table	Present? Y	es I	No Depth (inc	hes):				
Saturation P	resent? Y	es	No Depth (inc	hes):		_ Wet	land Hydrology	Present? Yes No
(Includes cap	corded Data (stream		nitoring well aerial n	hotos pr	evinue ine	nections)	if available:	
		guuge, me	actial p		0 11000 110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, il available.	
Bomerkei								
Remarks:								
Wetland	l hydrology p	oresen	t.					

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Sampling Date:	2022-07-03
Applicant/Owner: AEP	State: Ohio	Sampling Point:	1-AH UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1S R8E	SN36	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none)	Convex	
Slope (%): 1 Lat: 40.906317	Long: -83.892483	Datum: WGS 8	34
Soil Map Unit Name: Gwg5B2	NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No (If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances"	present? Yes	No
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If needed, explain any answe	ers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AH.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2.				
3				Total Number of Dominant
				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1. Elaeagnus umbellata	5	 ✓ 		Total % Cover of: Multiply by:
2 Robinia pseudoacacia	5	<pre> </pre>	FACU	OBL species $0 x_1 = 0$
2				EACW species 35 $x_2 = 70$
3				$\frac{1}{2} = \frac{1}{2}$
4				FAC species 0 $x^3 = 0$
5				FACU species 60 x 4 = 240
	10%	= Total Cov	ver	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 95 (A) 310 (B)
_{1.} Solidago canadensis	35	~	FACU	
2. Phalaris arundinacea	25	~	FACW	Prevalence Index = B/A = 3.26
3. Cirsium arvense	10		FACU	Hydrophytic Vegetation Indicators:
4. Rubus allegheniensis	10		FACU	1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6				3 - Prevalence Index is $≤3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
<i>I</i>				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				1
	80%	= Total Cov	er	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: <u>30 ft r</u>)				be present, unless disturbed of problematic.
_{1.} Vitis riparia	10	~	FACW	Hydrophytic
2				Vegetation
b ·	10%	= Total Cov		Present? Yes No
Remarks: (Include photo numbers here or on a congrete o	hoot)	- 10tai 00V		
Tremarks. (include proto numbers here of off a separate s	neet.)			
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describe	to the depth	needed to docun	ent the ind	dicator o	or confirm	n the absence	of indicators.)
Depth	Matrix		Redox	Features	_ 1	. 2		
(inches)	Color (moist)		Color (moist)		Type'	_Loc*	Texture	Remarks
0 - 10	10YR 5/2	100					Silty Clay	Highly compacted.
-								
-								
———								
		·						
- <u>-</u>								
-								
¹ Type: C=Co	oncentration, D=Dep	letion, RM=R	educed Matrix, MS	=Masked S	and Gra	ins.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	indicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	leyed Matri	x (S4)		Coast	Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy R	edox (S5)			Dark S	Surface (S7)
Black Hi	stic (A3)		Stripped	Matrix (S6))		Iron-M	langanese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy N	lucky Miner	ral (F1)		Very S	Shallow Dark Surface (TF12)
2 cm Mu	Layers (A5)		Loaniy C	Matrix (F3)	IX (FZ)			(Explain in Remarks)
Depleted	d Below Dark Surfac	e (A11)	Redox D	ark Surface) e (F6)			
Thick Da	ark Surface (A12)		Depleted	Dark Surfa	ace (F7)		³ Indicators	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox D	epressions	(F8)		wetlan	d hydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)					unless	disturbed or problematic.
Restrictive L	_ayer (if observed):							
Type: Gr	ravel		_				Hudria Sail	Procent? Vac No V
Depth (inc	ches): <u>10</u>		_				Hyune Soli	
Remarks:								
Hydric	soil absent							
	son absent.							
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	ators (minimum of o	ne is required	; check all that ap	ply)			Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ned Leaves	(B9)		Sur	face Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	una (B13)			Dra	inage Patterns (B10)
Saturatio	on (A3)		True Aquat	ic Plants (B	814)		Dry	-Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide Odo	r (C1)		Cra	yfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized R	hizospheres	s on Livi	ng Roots	(C3) Sat	uration Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence of	f Reduced	Iron (C4)	Stu	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Irol	n Reduction	in Tilled	l Soils (Ce	6) Geo	omorphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface (C7	7)		FAC	C-Neutral Test (D5)

______ Inundation Visible on Aerial Imagery (B7)
_____ Gauge or Well Data (D9)

______ Sparsely Vegetated Concave Surface (B8)
_____ Other (Explain in Remarks)

Field Observations:

Surface Water Present?
Yes ______ No _

Water Table Present?
Yes ______ No _

Depth (inches):

Water Table Present?
Yes ______ No _

Depth (inches):

Wetland Hydrology Present?
Yes ______ No _

Observations:

Wetland Hydrology Present?
Yes ______ No _

Pepth (inches):

Saturation Present?
Yes ______ No _

Depth (inches):

Saturation Present?
Yes ______ No _

Depth (inches):

Wetland Hydrology Present?
Yes _______ No _

Present?
Yes _______ No _

Depth (inches):

Wetland Hydrology Present?
Yes ________ No _

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Sampling Date: 2022-07-04				
Applicant/Owner: AEP	State: Oh	io Sampling Point: 1-AI				
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2S	R8E SN2				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex,	none): Concave				
Slope (%): 2 Lat: 40.902124	Long: -83.900584	Datum: WGS 84				
Soil Map Unit Name: BIg1B1	NWI	classification: <u>N/A</u>				
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no, expl	ain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumsta	ances" present? Yes 🔽 No				
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any	answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes <u> </u>	Is the Sampled Area	
Wetland Hydrology Present?	Yes 🖌 No	within a Wetland? Ye	es No
Remarks:			

PEM. ORAM score of 18.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata; 2 (B)
4.				(*)
5				Percent of Dominant Species
		= Total Cov		That Are OBL, FACW, of FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 000		Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2.				OBL species 100 x 1 = 100
3				FACW species 0 x 2 = 0
۵ ۵				FAC species 0 x 3 = 0
5				EACLI species 0 $x = 0$
0	·	- Total Car		$\frac{1111}{1111} \text{ species } \frac{1}{0} \text{ species } \frac$
Herb Stratum (Plot size: 5 ft r)			/er	Column Totals: 100 (A) 100 (B)
1. Typha angustifolia	70	~	OBL	
2. Eleocharis palustris	30	~	OBL	Prevalence Index = B/A = 1.00
3.				Hydrophytic Vegetation Indicators:
4				 1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is $\leq 3.0^1$
7	·			4 - Morphological Adaptations ¹ (Provide supporting
9	·			data in Remarks or on a separate sheet)
0	·			Problematic Hydrophytic Vegetation ¹ (Explain)
s	·			
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100 /	= Total Cov	/er	be present, unless disturbed or problematic.
1				Indeenbutie
2				Vegetation
2	·	- Total Ca		Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet)	- 10(a) 00(
Remarks. (motode photo numbers here of off a separate s	sneet.)			
Hydrophytic vegetation present.				

_ _ .

SOIL								Sampling Point: <u>I-AI</u>
Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the	indicator	or confir	m the absence	of indicators.)
Depth	 Matrix		Redo	Featur	es			,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 8	10YR 3/2	97	10YR 5/6	3	<u> </u>	М	Silty Clay Loam	
<u> </u>	10YR 5/2	85	10YR 5/6	15	<u> </u>	М		
-								
-								
-								
-								
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	=Maske	ed Sand Gr	ains.	² Location	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:		·				Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	leyed N	latrix (S4)		Coast	Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy R	edox (S	5)		Dark S	urface (S7)
Black Hi	stic (A3)		Stripped	Matrix	(S6)		Iron-M	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy N	/lucky M	lineral (F1)		Very S	hallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy C	Gleyed N	Matrix (F2)		Other (Explain in Remarks)
2 cm Mu	ick (A10)		Depleted	d Matrix	(F3)			
Depleted	d Below Dark Surfac	e (A11)	Redox D	ark Sur	face (F6)		3	
Thick Da	ark Surface (A12)		Depleted	Dark S	Surface (F7)	Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (51)	2)	Redox L	epressi	ons (F8)		wetiand	d hydrology must be present,
5 cm wu	aver (if observed):	5)					uniess	disturbed or problematic.
Turcive	Layer (il observeu).							
Donth (in	ahaa);						Hydric Soil	Present? Yes 🦯 No
Deptn (ind	cnes):							
Hydric s	soil present.							
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	cators (minimum of o	ne is requi	red; check all that ap	ply)			Seconda	ry Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ned Lea	ves (B9)		Surf	ace Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	una (B1	3)		Drai	nage Patterns (B10)
🗹 Saturatio	on (A3)		True Aquat	tic Plant	s (B14)		Dry-	Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide (Odor (C1)		Cray	/fish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized R	hizosph	eres on Liv	ing Roots	s (C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence of the second seco	of Reduc	ced Iron (C	4)	Stur	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Irol	n Reduc	tion in Tille	d Soils (C	6) 🖌 Geo	morphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface	e (C7)		🖌 FAC	-Neutral Test (D5)
Inundatio	on Visible on Aerial I	magery (B	7) Gauge or V	Vell Dat	a (D9)			
Sparsely	Vegetated Concave	e Surface (B8) Other (Exp	lain in R	Remarks)			
Field Observ	vations:							
Surface Wate	er Present? Y	es	No Depth (inc	hes):		_		
Water Table	Present? Y	es	No Depth (inc	hes):		_		
Saturation Pr (includes car	resent? Y pillary fringe)	es _	No Depth (inc	ches): <u>8</u>		_ Wet	tland Hydrology	/ Present? Yes 🔽 No
Describe Red	corded Data (stream	gauge, m	onitoring well, aerial p	hotos, p	previous in	spections)	, if available:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Sampling Date: 2022-07-04				
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-AI UPL				
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2S R8	E SN2				
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, nor	ne): Convex				
Slope (%): 1 Lat: 40.90215	Long: -83.900527	Datum: WGS 84				
Soil Map Unit Name: Blg1B1	NWI class	sification: N/A				
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, explain i	n Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstance	s" present? Yes 🔽 No				
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any ans	wers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No	In the Completion					

Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No No	✓ ✓	Is the Sampled Area within a Wetland?	Yes	No
Remarks:						

Upland point for Wetland 1-AI. Mown grass. Highly compacted soil.

00 ()	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species			
1				That Are OBL, FACW, or FAC: 0 (A)			
2				Total Number of Deminent			
3.				Species Across All Strata: 2 (B)			
4							
				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: 0 (A/B)			
Sapling/Shruh Stratum (Plat size) 15 ft r		= Total Cov	/er	Prevalence Index worksheet:			
1							
2				OBL species 0 $x = 0$			
3				FACW species $0 \times 2 = 0$			
4				FAC species <u>0</u> x 3 = <u>0</u>			
5				FACU species 100 x 4 = 400			
		= Total Cov	ver	UPL species 0 x 5 = 0			
Herb Stratum (Plot size: <u>5 ft r</u>)				Column Totals: 100 (A) 400 (B)			
_{1.} <u>Festuca rubra</u>	80	<u> </u>	FACU				
2. Plantago lanceolata	20	<u> </u>	FACU	Prevalence Index = B/A = 4.00			
3				Hydrophytic Vegetation Indicators:			
4.				1 - Rapid Test for Hydrophytic Vegetation			
5.				2 - Dominance Test is >50%			
6.				3 - Prevalence Index is ≤3.0 ¹			
7.				4 - Morphological Adaptations ¹ (Provide supporting			
8				data in Remarks or on a separate sheet)			
0				Problematic Hydrophytic Vegetation ¹ (Explain)			
8							
10	100%			¹ Indicators of hydric soil and wetland hydrology must			
Weedy Vine Stratum (Plot size: 30 ft r	100%	= Total Cov	/er	be present, unless disturbed or problematic.			
Woody vine Stratum (Flot size)							
1				Hydrophytic			
2				Present? Yes No			
		= Total Cov	/er				
Remarks: (Include photo numbers here or on a separate sheet.)							
Hydrophytic vegetation absent.							

Profile Desc	ription: (Describe	e to the dept	th needed to docu	ment the indicat	or or confir	n the absence	e of indicators.)		
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%Туре	e ¹ Loc ²	Texture	Re	emarks	
0 - 4	10YR 4/3	100				Silty Clay	Highly comp	bacted	
-									
-									
¹ Type: C=Ce	oncentration, D=De	pletion, RM=	Reduced Matrix, M	S=Masked Sand	Grains.	² Location	n: PL=Pore Lining	, M=Mat	irix.
Hydric Soil	Indicators:					Indicators	for Problematic	Hydric	Soils ³ :
Histosol	(A1)		Sandy	Gleyed Matrix (S	4)	Coast	Prairie Redox (A1	16)	
Histic Ep	pipedon (A2)		Sandy I	Redox (S5)		Dark S	Surface (S7)		
Black Hi	stic (A3)		Strippe	d Matrix (S6)		Iron-M	langanese Masse	s (F12)	
Hydroge	n Sulfide (A4)		Loamy	Mucky Mineral (F	Very Shallow Dark Surface (TF12)				
Stratified	d Layers (A5)		Loamy Gleyed Matrix (F2)			Other (Explain in Remarks)			
2 cm Mu	ıck (A10)		Deplete	ed Matrix (F3)					
Depleted	d Below Dark Surfa	ce (A11)	Redox	Dark Surface (F6)				
Thick Da	ark Surface (A12)		Deplete	ed Dark Surface (F7)	³ Indicators	s of hydrophytic ve	egetation	and
Sandy M	lucky Mineral (S1)		Redox	Depressions (F8)		wetland hydrology must be present,			
5 cm Mu	icky Peat or Peat (8	S3)				unless	s disturbed or prob	lematic.	
Restrictive I	_ayer (if observed):							
Type: C	ompacted						Descento Mar		
Depth (in	ches): <u>4</u>					Hydric Soll	Present? Yes		NO
Remarks:									
	oil abaant								
	son absent.								
HYDROLOGY									
Wetland Hy	drology Indicators								
Drimony India	ators (minimum of	one is requir	ed check all that a	anly)		Second	any Indicators (mir	aimum ef	f two required)
	ators (minimum of	one is requir	eu, check all that a	Jply)		Seconda	ary mulcators (mir		(wo required)

Primary Indicators (minimum of one is required:	Secondary Indicators (minimum of two required)							
Surface Water (A1)	Water-Stained Leaves (B9)		Surface Soil Cracks (B6)					
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)					
Saturation (A3)	True Aquatic Plants (B14)		Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Roots (C3)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	oils (C6)	Geomorphic Position (D2)					
Iron Deposits (B5)		FAC-Neutral Test (D5)						
Inundation Visible on Aerial Imagery (B7)	Gauge or Well Data (D9)							
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)							
Field Observations:								
Surface Water Present? Yes No	Depth (inches):							
Water Table Present? Yes No	Depth (inches):							
Saturation Present? Yes No (includes capillary fringe)	✓ Depth (inches):	Wetland H	lydrology Present? Yes No					
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previous inspec	tions), if avai	ilable:					
Remarks:								
Wetland hydrology absent								

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen Sampling Date: 2022-07-04					
Applicant/Owner: AEP	State: Ohio Sampling Point: 1-AJ					
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2S R8E SN20					
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave, convex, none): Concave					
Slope (%): 2 Lat: 40.859632	Long: -83.975946 Datum: WGS 84					
Soil Map Unit Name: SrA	NWI classification: R4SBC					
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significar	intly disturbed? Are "Normal Circumstances" present? Yes No					
Are Vegetation, Soil, or Hydrology naturally	y problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes No	Is the Sampled Area					
Wetland Hydrology Present? Yes <u>V</u> No	within a Wetland? Yes <u>V</u> No					

Remarks:

PEM. ORAM score of 17.

20 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2.				
3				Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species $0 \qquad x = 0$
2				EACW species 100 $x_2 = 200$
3				
4				FAC species 0 $x^3 = 0$
5				FACU species x 4 =
		= Total Cov	/er	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100 (A) 200 (B)
1. Phalaris arundinacea	100	~	FACW	
2.				Prevalence Index = $B/A = 2.00$
3				Hydrophytic Vegetation Indicators:
				 1 - Rapid Test for Hydrophytic Vegetation
4				O Deminence Test is > 50%
5				2 - Dominance Test Is >50%
6				✓ 3 - Prevalence Index is ≤3.0 ⁺
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
20 ft r	100%	= Total Cov	/er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 50 TTT)				
1. Convolvulus arvensis		<u> </u>		Hydrophytic
2.				Vegetation
	10%	= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate	sheet.)			
Hydrophytic vegetation present.				

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SOIL							Sampling Point:AJ	
Profile Desc	ription: (Descri	be to the de	pth needed to docu	ment the	indicato	r or confir	m the absence of indicators.)	
Depth	Matrix	x	Red	ox Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/2	95	10YR 5/6	5	C	M	Silty Clay	
<u> </u>	10YR 6/2	95	10YR 5/6	_ 5	<u> </u>	<u>M</u>	Silty Clay	
-						_		
-								
-					_	_		
-								
						_		
¹ Type: C=C	oncentration D=F	Depletion RM	/=Reduced Matrix_M	– IS=Maski	ed Sand G		² l ocation: Pl =Pore Lining M=Matrix	
Hydric Soil	Indicators:			10-1110510		Jans.	Indicators for Problematic Hydric Soils ³ :	
Histoso	(A1)		Sandv	Gleved N	/atrix (S4)		Coast Prairie Redox (A16)	
Histic E	pipedon (A2)		Sandy	Redox (S	35)		Dark Surface (S7)	
Black H	istic (A3)		Strippe	ed Matrix	(S6)		Iron-Manganese Masses (F12)	
Hvdroge	en Sulfide (A4)		Loamy	Mucky M	lineral (F1)	Very Shallow Dark Surface (TF12)	
Stratifie	d Lavers (A5)		Loamy	Gleved	Matrix (F2))	Other (Explain in Remarks)	
2 cm Mi	uck (A10)		V Deplet	ed Matrix	(F3)	,	<u> </u>	
Deplete	d Below Dark Sur	face (A11)	Redox	Dark Sur	face (F6)			
Thick D	ark Surface (A12)		Deplet	ed Dark S	Surface (F	7)	³ Indicators of hydrophytic vegetation and	
Sandy M	lucky Mineral (S1)	Redox	Depress	ions (F8)		wetland hydrology must be present,	
5 cm Mu	ucky Peat or Peat	(S3)					unless disturbed or problematic.	
Restrictive	Layer (if observe	ed):						
Туре:							Hudria Sail Present? Yes / No	
Depth (in	ches):							
Remarks:								
Hydric	soil nresen	t						
i iyano i								
HYDROLO	GY							
Wetland Hy	drology Indicato	rs:						
Primary Indi	cators (minimum o	of one is requ	uired; check all that a	apply)			Secondary Indicators (minimum of two req	<u>uired)</u>
👱 Surface	Water (A1)		Water-St	ained Lea	aves (B9)		Surface Soil Cracks (B6)	
🖌 High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drainage Patterns (B10)	
 Saturati 	on (A3)		True Aqu	atic Plant	s (B14)		Dry-Season Water Table (C2)	
Water M	larks (B1)		Hydroger	n Sulfide (Odor (C1)		Crayfish Burrows (C8)	
 Sedime	nt Deposits (B2)		Oxidized	Rhizosph	eres on L	iving Roots	s (C3) Saturation Visible on Aerial Imagery (29)
Drift De	posits (B3)		Presence	e of Redu	ced Iron (C	24)	Stunted or Stressed Plants (D1)	,
Algal Ma	at or Crust (B4)		Recent Ir	on Reduc	tion in Till	ed Soils (C	C6) C6 Geomorphic Position (D2)	
Iron Der	posits (B5)		Thin Muc	k Surface	e (C7)		FAC-Neutral Test (D5)	
Inundati	on Visible on Aeri	ial Imagery (I	B7) Gauge of	Well Dat	(0))			
Sparsel	Vegetated Conc	ave Surface	(B8) Other (E)	colain in F	Remarks)			
Field Obser	vations:		()		,			
Surface Wat	er Present?	Yes 🗸	No Depth (i	nches): 1				
Water Table	Present?	Yes 🗸	No Depth (i	nches): 0)	—		
Saturation P	resent?	Yes 🗸	No Depth (i	nches): 0)	Wei	tland Hydrology Present? Yes 🗸 No	
(includes ca	oillary fringe)							
Describe Re	corded Data (stre	am gauge, n	nonitoring well, aeria	photos, j	previous ir	nspections)), if available:	
1								

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Alle	n	Sampling Date:	2022-07-04
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-AJ UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2S R8E S	SN20	
Landform (hillslope, terrace, etc.): Flat	Local relief (conc	ave, convex, none):	None	
Slope (%): 0 Lat: 40.85957	Long: -83.975992		Datum: WGS 8	34
Soil Map Unit Name: SrA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	oresent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AJ.

20.64 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 1 (B)
4				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Sopling/Shruh Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
1				
2				OBL species 0 $x 1 = 0$
3				FACW species 0 x 2 = 0
4				FAC species 0 x 3 = 0
5				FACU species 90 x 4 = 360
		= Total Cov	er	UPL species 0 $x = 0$
Herb Stratum (Plot size: 5 ft r)				Column Totals: 90 (A) 360 (B)
_{1.} Festuca rubra	70	~	FACU	
2. Cirsium arvense	10		FACU	Prevalence Index = B/A = 4.00
3. Pastinaca sativa	10			Hydrophytic Vegetation Indicators:
4. Solidago canadensis	10		FACU	1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
o				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	4000/			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total Cov	er	be present, unless disturbed or problematic.
1 Convolvulus arvensis	10	~		Hudronbutio
2				Vegetation
۷	10%	Tatal O		Present? Yes No
Demorkey (Include photo numbers here as an a concrete a	heat)		er	
Remarks. (include photo numbers here or on a separate s	sneet.)			
Hydrophytic vegetation absent.				

Profile Description: (Describe to the depth needed to document the indicator or con	firm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc	² Texture Remarks
0 - 20 10YR 6/3 100	Silty Clay
·	
-	
· · · · · · · · · · · · · · · · · · ·	
·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3) Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10) Depleted Matrix (F3)	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	2
Thick Dark Surface (A12) Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Pear or Pear (S3)	uniess disturbed or problematic.
Restrictive Layer (II observed).	
Type:	Hydric Soil Present? Yes No
Depth (inches):	
Remarks:	
Hydric soil absent	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Drv-Season Water Table (C2)
Water Marks (B1) Hvdrogen Sulfide Odor (C1)	Cravfish Burrows (C8)
Sediment Deposits (B2) Ovidized Rhizospheres on Living Ro	oots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Becant Iron Reduction in Tilled Soils	(C6) Geomorphic Position (D2)
Iron Deposite (B5)	EAC-Neutral Test (D5)
Inundation Visible on Aerial Imageny (P7)	
Inditionation visible on Aerial Integery (D7) Gauge of Well Data (D9)	
Operative vegetated Concave Surface (66) Other (Explain in Remarks)	
Surface voter Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
I	
Saturation Present? Yes No <u></u>	Vetland Hydrology Present? Yes No

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Sampling Date:	2022-07-04
Applicant/Owner: AEP	State: Ohio	Sampling Point:	1-AK
Investigator(s): Beth Hollinden, Chris Davisson	_ Section, Township, Range: OH01 T2S R8E S	N19	
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave, convex, none):	Concave	
Slope (%): 2 Lat: 40.85878	Long: -83.977388	Datum: WGS 8	34
Soil Map Unit Name: SrA	NWI classifica	ation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes 🔽 No (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" pr	resent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects,	, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes V			

Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

PEM. ORAM score of 17.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Deminent
3.				I otal Number of Dominant Species Across All Strata: 1 (B)
۵ ۸				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
n in total of the total of the second s		= Total Cov	/er	Dravalance Index warksheets
Sapling/Shrub Stratum (Plot size:)				Prevalence index worksneet.
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
3				FACW species 100 x 2 = 200
4				FAC species $0 x 3 = 0$
5				FACIL species 0 $x 4 = 0$
J				$\frac{1}{100} = \frac{1}{100} = \frac{1}$
Herb Stratum (Plot size: 5 ft r)		= Total Cov	ver	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
Phalaris arundinacea	100	~	FACW	Column Totals: 100 (A) 200 (B)
				Dravalance index = $P/h = 2.00$
2				
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
0				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				Indicators of hudric coll and wetland hudralany much
00 ft -	100%	= Total Cov	er	be present unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)				
1. Convolvulus arvensis	10	<u> </u>		Hydrophytic
2				Vegetation
	10%	= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate	sheet.)			
Indraphytic vegetation procent				

Profile Desc	ription: (Describe	to the der	oth needed to docur	nent the	indicator	or confirm	n the absence of i	indicators.)
Depth	Matrix	to the dep	Redo	x Feature	s	0. 00		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 5/2	95	10YR 5/6	5	С	М	Silty Clay	
-								
-								
-								
1 T			- De duce d Metrix M				21	
Hydric Soil	oncentration, D=Dep	pletion, RM	=Reduced Matrix, Ma	S=Maske	d Sand Gr	ains.	Location: P	L=Pore Lining, M=Matrix.
History			Sandu		atrix (CA)			Froblematic Hydric Solls .
Histic Fr	(AT) Dipedon (A2)		Sandy C	Seday (Sf	aurix (54)		Coast Pra	
Black Hi	stic (A3)		Strippe	d Matrix (S	56)		Iron-Mang	anese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mi	neral (F1)		Very Shall	low Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed M	atrix (F2)		Other (Exp	plain in Remarks)
2 cm Mu	ick (A10)		✓ Deplete	d Matrix ((F3)			
Depleted	d Below Dark Surfac	æ (A11)	Redox	Dark Surfa	ace (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark Su	urface (F7)	³ Indicators of	hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	•	Redox I	Depressio	ons (F8)		wetland hy	/drology must be present,
5 cm Mu	icky Peat or Peat (S	3)					unless dis	turbed or problematic.
Tuno	Layer (II observed)	•						
Type:							Hydric Soil Pre	esent? Yes 🖌 No
Depth (Inc	cnes):							
Hydric s	soil present.							
HYDROLO	GY							
Wetland Hyd	drology Indicators	:						
Primary Indic	cators (minimum of	one is requi	red; check all that ap	oply)			Secondary I	Indicators (minimum of two required)
 Surface 	Water (A1)		Water-Sta	ined Leav	/es (B9)		Surface	e Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		🖌 Drainag	ge Patterns (B10)
 Saturation 	on (A3)		True Aqua	tic Plants	(B14)		Dry-Sea	ason Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish	h Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosphe	eres on Liv	ing Roots	(C3) Saturat	ion Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	of Reduce	ed Iron (C	4)	Stunted	l or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Irc	n Reduct	ion in Tille	d Soils (C	6) 🖌 Geomo	rphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface	(C7)		🖌 FAC-Ne	eutral Test (D5)
Inundati	on Visible on Aerial	Imagery (B	7) Gauge or	Well Data	ı (D9)			
Sparsely	/ Vegetated Concav	e Surface (B8) Other (Exp	plain in Re	emarks)			
Field Obser	vations:			1				
Surface Wate	er Present?	es	No Depth (in	ches):				
Water Table	Present?	'es	No Depth (in	ches): 0		_		,
Saturation P (includes cap	resent?) pillary fringe)	′es	No Depth (in	ches): 0		Wet	land Hydrology P	resent? Yes No
Describe Re	corded Data (strean	n gauge, m	onitoring well, aerial	photos, pi	revious ins	spections),	, if available:	
Remarks:								
Wetland	l hydrology	presen	t.					

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Alle	n	Sampling Date:	2022-07-04
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-AK UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2S R8E S	SN19	
Landform (hillslope, terrace, etc.): <u>Flat</u>	Local relief (conc	ave, convex, none):	None	
Slope (%): 0 Lat: 40.85884	Long: -83.977343		Datum: WGS 8	34
Soil Map Unit Name: SrA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	oresent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed	explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AK.

20 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Tatal Number of Deminent
3.				Species Across All Strata: 3 (B)
۵ ۸				
4				Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)
15 ft r		= Total Cov	ver	Dravalance Index worksheets
Sapling/Shrub Stratum (Plot size: 1911)				Prevalence index worksneet:
1				Total % Cover of: Multiply by:
2				OBL species 0 x 1 = 0
3.				FACW species _30 x 2 = _60
4				FAC species $0 \times 3 = 0$
				EACLI species $\overline{70}$ x 4 = $\overline{280}$
5	·			$\frac{1}{100} \text{ species } \frac{1}{100} species$
Hart Stratum (Distainer 5 ft r		= Total Cov	ver	UPL species $0 \times 5 = 0$
Solidado canadonsis	50	~	FACU	Column Totals: 100 (A) 340 (B)
	~~	-	=	
2. Phalaris arundinacea	30	<u> ⁄</u>	FACW	Prevalence Index = $B/A = 3.40$
2. Phalaris arundinacea 3. Rubus allegheniensis	30 20	<u> </u>	FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators:
 2. Phalaris arundinacea 3. Rubus allegheniensis 4. 	30 20	<u> </u>	FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
 2. Phalaris arundinacea 3. Rubus allegheniensis 45 	30 20	<u> </u>	FACW FACU	Prevalence Index = B/A = <u>3.40</u> Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
 2. Phalaris arundinacea 3. Rubus allegheniensis 4	<u>30</u> 20	<u> </u>	FACW FACU	Prevalence Index = B/A = <u>3.40</u> Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
2. Phalaris arundinacea 3. Rubus allegheniensis 4	<u>30</u> 20	<u> </u>	FACW FACU	Prevalence Index = B/A = <u>3.40</u> Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4. Morphological Adaptations ¹ (Provide supporting
2. Phalaris arundinacea 3. Rubus allegheniensis 4.	<u>30</u> <u>20</u> 	<u> </u>	FACW FACU	Prevalence Index = B/A = <u>3.40</u> Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Phalaris arundinacea 3. Rubus allegheniensis 4.	<u>30</u> <u>20</u> 	<u> </u>	FACW FACU	Prevalence Index = B/A = <u>3.40</u> Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. Phalaris arundinacea 3. Rubus allegheniensis 4.	<u>30</u> 20 	<u> </u>	FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. Phalaris arundinacea 3. Rubus allegheniensis 4.			FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. Phalaris arundinacea 3. Rubus allegheniensis 4.	30 20 		FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be prevent unless disturbed as problematic
2. Phalaris arundinacea 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: <u>30 ft r</u>)	<u>30</u> 20 		FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Phalaris arundinacea 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: <u>30 ft r</u>) 1. Convolvulus arvensis	<u>30</u> 20 		FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Phalaris arundinacea 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 30 ft r) 1. Convolvulus arvensis	<u>30</u> 20 	✓ ✓	FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation
2. Phalaris arundinacea 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 30 ft r) 1. Convolvulus arvensis 2.	<u>30</u> 20 		FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) 1 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present?
2. Phalaris arundinacea 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 30 ft r) 1. Convolvulus arvensis 2.	<u>30</u> 20 <u></u> <u></u> <u></u>		FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No
2. Phalaris arundinacea 3. Rubus allegheniensis 4. 5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 30 ft r) 1. Convolvulus arvensis 2. Remarks: (Include photo numbers here or on a separate se	30 20 		FACW FACU	Prevalence Index = B/A = 3.40 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present?

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox Features						
(inches)	Color (moist)		Color (moist) % Type ¹ Loc ²	Texture Remarks					
0 - 20	10YR 6/3	100		Silty Clay					
-									
-									
<u> </u>									
-									
-									
¹ Type: C=Ce	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.					
Hydric Soil	Indicators:			Indicators for Problematic Hydric Soils ³ :					
Histosol (A1)			Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)					
Histic Epipedon (A2)			Sandy Redox (S5) Dark Surface (S7)						
Black Hi	stic (A3)		Stripped Matrix (S6)	Iron-Manganese Masses (F12)					
Hydroge	en Sulfide (A4)		Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)					
Stratified	d Layers (A5)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)					
2 cm Mu	ick (A10) d Balavy Dark Surfaa	a (A11)	Depleted Matrix (F3)						
Depleted	a Below Dark Surfac	e (A11)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and					
Sandy M	Aucky Mineral (S1)		Depieted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present					
5 cm Mu	icky Peat or Peat (S	3)		unless disturbed or problematic.					
Restrictive I	Layer (if observed)	- /							
Type:									
Depth (inches):				Hydric Soil Present? Yes No					
Remarks:									
Hydric soil absent.									
	<u></u>								
HYDROLOGY									
Wetland Hy	drology indicators:								
Primary India	cators (minimum of c	Secondary Indicators (minimum of two required)							
Surface	Water (A1)		Water-Stained Leaves (B9)	Surface Soil Cracks (B6)					
High Water Table (A2)			Aquatic Fauna (B13)	Drainage Patterns (B10)					
Saturation	on (A3)		True Aquatic Plants (B14)	Dry-Season Water Table (C2)					
Water Marks (B1) Sediment Depents (B2)			Hydrogen Sulfide Odor (C1)	Crayrish Burrows (C8)					
Sealment Deposits (B2) Drift Deposits (B2)			Oxidized Knizospheres on Living Roots) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Cruet (P4)			Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)			Recent Iron Reduction in Tilled Soils (Co	Geomorphic Position (D2)					
Iron Deposits (B5)			Thin Muck Surface (C7)	FAC-Neutral Test (D5)					

Inundation Visible on Aer	ial Imagery (B7)	Gauge or Well Data (D9)		
Sparsely Vegetated Cond	cave Surface (B8)	Other (Explain in Remarks)		
Field Observations:				
Surface Water Present?	Yes No _	Depth (inches):		
Water Table Present?	Yes No _	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland Hydrology Present?	Yes No
Describe Recorded Data (stre	eam gauge, monito	ring well, aerial photos, previous inspec	tions), if available:	
Remarks:				
Wetland hydrolog	y absent.			
Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen		Sampling Date:	2022-07-05
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Applicant/Owner: AEP	St	_{ate:} Ohio	Sampling Point:	1-AL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH	01 T2S R7E S	SN26	
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave,	convex, none):	Concave	
Slope (%): 2 Lat: 40.834152	Long: -84.01554		Datum: WGS 8	4
Soil Map Unit Name: SrA		_ NWI classifica	ation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No (If	no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal C	ircumstances" p	resent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, exp	olain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point location	s, transects,	, important fe	atures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			

PEM. ORAM score of 18.

20.64 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Deminent
3.				Species Across All Strata (B)
4				
т				Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: <u>100</u> (A/B)
Sapling/Shruh Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
l	·			
2	·			OBL species $\frac{1}{100}$ $x = \frac{1}{200}$
3	·			FACW species $100 \times 2 = 200$
4				FAC species 0 $x 3 = 0$
5				FACU species 0 x 4 = 0
- 4		= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)	400			Column Totals: 100 (A) 200 (B)
1. Phalaris arundinacea	100	<u> </u>	FACW	
2				Prevalence Index = B/A = 2.00
3				Hydrophytic Vegetation Indicators:
4.				✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is $\leq 3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Weedy Vine Stratum (Plataize: 30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody vine Stratum (Plot size)				
1				Hydrophytic
2				Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

SOIL								Sampling Point: 1-AL
Profile Desc	ription: (Describe	to the de	pth needed to docu	nent the	indicator	or confir	m the absence o	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Remarks
0 - 20	10YR 4/2	95	10YR 5/6	5	С	М	Silty Clay	
-								
-								
-								
-								
<u> </u>								
-								
¹ Type: C=Co	oncentration, D=Dep	pletion, RM	I=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils':
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		Coast P	rairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy I	Redox (S	5)		Dark Su	irface (S7)
Black Hi	stic (A3)		Strippe	d Matrix (S6)		Iron-Ma	nganese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy	Mucky M	Ineral (F1)		Very Sh	allow Dark Surface (TF12)
Stratified	Layers (A5)		Loamy	Gleyed IV	(E2)		Other (E	Explain in Remarks)
Depleter	H Below Dark Surfac	ο (Δ11)	Peday	Dark Surf	(FS) face (F6)			
Thick Da	ark Surface (A12)		Redex	d Dark S	urface (F7)	³ Indicators of	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox	Depressi	ons (F8)	/	wetland	hydrology must be present.
5 cm Mu	icky Peat or Peat (S	3)	_				unless d	listurbed or problematic.
Restrictive I	_ayer (if observed)	:						
Type:								
Depth (ind	ches):						Hydric Soil P	Present? Yes No
Remarks:	/							
i tomarko.								
Hydric s	soil present.							
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	cators (minimum of o	one is requ	ired; check all that a	oply)			Secondar	y Indicators (minimum of two required)
 Surface 	Water (A1)		Water-Sta	ined Lea	ves (B9)		Surfa	ce Soil Cracks (B6)
🖌 High Wa	ter Table (A2)		Aquatic Fa	auna (B1	3)		 Drain 	age Patterns (B10)
 Saturation 	on (A3)		True Aqua	atic Plants	s (B14)		Dry-S	Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide C	dor (C1)		Crayf	ish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized I	Rhizosph	eres on Liv	ing Roots	(C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	of Reduc	ed Iron (C	4)	Stunte	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Irc	n Reduc	tion in Tille	d Soils (C	6) 🔽 Geom	norphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface	(C7)		✓ FAC-	Neutral Test (D5)
Inundatio	on Visible on Aerial	Imagery (E	37) Gauge or	Well Data	a (D9)		—	
Sparsely	Vegetated Concav	e Surface	(B8) Other (Ex	olain in R	emarks)			
Field Obser	vations:							
Surface Wate	er Present?	es 🗸	No Depth (in	_{ches):} 1				
Water Table	Present?	es V	No Depth (in	ches) 0		_		
Saturation D	resent?	/as V	No Depth (in	cheel. 0		— wee	land Hydrology	Present? Yes V
(includes car	pillary fringe)		Deput (III	onoo). <u>o</u>		_ ""	aana nyarology	
Describe Red	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious ins	spections)	, if available:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen		Sampling Date:	2022-07-05
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-AL UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2S R7E S	SN26	
Landform (hillslope, terrace, etc.): <u>Flat</u>	Local relief (cond	ave, convex, none):	None	
Slope (%): 0 Lat: 40.8341	Long: -84.015537		Datum: WGS 8	34
Soil Map Unit Name: SrA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	nal Circumstances" p	oresent? Yes	✓ №
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed	l, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AL.

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species
J	·	- Total Car		That Are OBL, FACW, or FAC: <u>50</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
<u></u>				Total % Cover of: Multiply by:
0				$\frac{1}{OBL \text{ species}} 0 \qquad \qquad x = 0$
2	·			
3	·			FACW species 0 $x = 0$
4	·			FAC species 30 $x 3 = 90$
5				FACU species $\frac{70}{2}$ x 4 = $\frac{280}{2}$
F ()		= Total Cov	ver	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft f)	<u></u>			Column Totals: 100 (A) 370 (B)
1. Festuca rubra	60	<u> </u>	FACU	0.70
2. Toxicodendron radicans	30	<u> </u>	FAC	Prevalence Index = $B/A = 3.70$
3. Plantago lanceolata	10		FACU	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	4000/			¹ Indicators of hydric soil and wetland hydrology must
Weath View Obstance (Distring 30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
(Plot size:)	10			
				Hydrophytic
2				Vegetation Present? Ves No
	10%	= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describe	to the depth	needed to document the indicator or confirm	n the absence of	indicators.)
Depth	Matrix		Redox Features	_	
(inches)	Color (moist)		<u>Color (moist)</u> <u>%</u> <u>Type'</u> <u>Loc</u> ²	Texture	Remarks
0-20	10YR 5/3	100 _		Silty Clay	
-					
-					
-					
¹ Type: C=Co	oncentration, D=Dep	letion, RM=R	Reduced Matrix, MS=Masked Sand Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators:			Indicators for	r Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gleyed Matrix (S4)	Coast Pra	airie Redox (A16)
Histic Ep	oipedon (A2)		Sandy Redox (S5)	Dark Surf	ace (S7)
Black Hi	stic (A3)		Stripped Matrix (S6)	Iron-Mang	ganese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy Mucky Mineral (F1)	Very Sha	llow Dark Surface (TF12)
2 cm Mu	i Layers (A5)		Loaniy Gleyed Matrix (F2)		
Depleted	d Below Dark Surfac	e (A11)	Redox Dark Surface (F6)		
Thick Da	ark Surface (A12)	()	Depleted Dark Surface (F7)	³ Indicators of	hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox Depressions (F8)	wetland h	ydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)		unless dis	sturbed or problematic.
Restrictive L	_ayer (if observed):				
Туре:			_	Hudria Sail Dr	acont? Vac No
Depth (inc	ches):			Hydric Soli Pr	
Remarks:					
Hvdric s	soil absent.				
,					
HYDROLO	GY				
Wetland Hyd	drology Indicators:				
Primary Indic	ators (minimum of o	ne is require	d; check all that apply)	Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Water-Stained Leaves (B9)	Surface	e Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fauna (B13)	Drainag	ge Patterns (B10)
Saturatio	on (A3)		True Aquatic Plants (B14)	Dry-Se	ason Water Table (C2)
Water M	arks (B1)		Hydrogen Sulfide Odor (C1)	Crayfis	h Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized Rhizospheres on Living Roots	(C3) Saturat	tion Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence of Reduced Iron (C4)	Stunted	d or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iron Reduction in Tilled Soils (Co	b) Geomo	orphic Position (D2)
Iron Dep	osits (B5)		Thin Muck Surface (C7)	FAC-N	eutral Test (D5)

Wetland hydrology absent.

Inundation Visible on Aerial Imagery (B7)
 Sparsely Vegetated Concave Surface (B8)
 Other (Explain in Remarks)

Yes ____

Yes _____ No ____ Depth (inches): ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Yes _____ No ____ Depth (inches): _____

___ No ___ Depth (inches): __

Field Observations:

Surface Water Present?

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

____ No ____

Wetland Hydrology Present? Yes ____

Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen		Sampling Date:	2022-07-05
Applicant/Owner: AEP	S	tate: Ohio	Sampling Point:	1-AM
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH	01 T3S R7E S	SN11	
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave	, convex, none):	Concave	
Slope (%): 2 Lat: 40.800362	Long: -84.027713		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (Ii	no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal C	Circumstances" p	oresent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, ex	plain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locatior	is, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			

PEM. ORAM score of 28.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Demission
3.				Species Across All Strata: 2 (B)
A.				
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 100 (A/B)
Conting (Christian Christian 15 ft r		= Total Cov	/er	Brovalanca Index workshoot:
Sapling/Shrub Stratum (Plot size:)				
1	·			
2				OBL species 100 $x_1 = 100$
3				FACW species <u>10</u> x 2 = <u>20</u>
4				FAC species 0 x 3 = 0
5				FACU species 0 x 4 = 0
		= Total Cov	/er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)		10101 001		Column Totals: 110 (A) 120 (B)
_{1.} Typha angustifolia	100	~	OBL	
2.				Prevalence Index = B/A = 1.09
3.				Hydrophytic Vegetation Indicators:
4.				✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9	·			Problematic Hydrophytic Vegetation ¹ (Explain)
10	·			
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100 /	= Total Cov	/er	be present, unless disturbed or problematic.
1 Vitis riparia	10	~	FACW	Ludronhutio
2				Vegetation
£,,	10%	= Total Cov	/er	Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)			
	/			
Hydrophytic vegetation present.				

SOIL								Sampling Point: 1-AM
Profile Desc	ription: (Describ	e to the de	pth needed to docu	ment the	indicator	or confirm	n the absence o	of indicators.)
Depth	Matrix		Red	ox Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 4/2	85	10YR 5/6	10	<u> </u>	PL/M	Silty Clay	
20	10YR 4/2	85	10YR 5/1	_ 5	_ <u>D</u>	<u>M</u>	Silty Clay	
-								
-								
-								
-								
¹ Type: C=Co	oncentration, D=D	epletion, RM	I=Reduced Matrix, N	//S=Maske	ed Sand G	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed N	latrix (S4)		Coast F	Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy	Redox (S	5)		Dark Su	urface (S7)
Black Hi	istic (A3)		Strippe	ed Matrix ((S6)		Iron-Ma	nganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very Sh	allow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other (I	Explain in Remarks)
2 cm Mu	uck (A10)		 Deplet 	ed Matrix	(F3)			
Depleted	d Below Dark Surfa	ace (A11)	Redox	Dark Sur	face (F6)			
Thick Da	ark Surface (A12)		Deplet	ed Dark S	urface (F7)	³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox	Depressi	ons (F8)		wetland	hydrology must be present,
5 cm Mu	ucky Peat or Peat ((S3)					unless o	disturbed or problematic.
Restrictive	Layer (if observed	d):						
Туре:							Hydric Soil I	Present? Yes No
Depth (in	ches):							
Remarks:								
Hvdric	soil present	t.						
,								
HIDROLO	GY							
Wetland Hy	drology Indicator	s:						
Primary India	cators (minimum o	r one is requ	lired; check all that a		(50)		<u>Secondar</u>	y indicators (minimum of two required)
Surface	Water (A1)		Water-St	ained Lea	ves (B9)		Surfa	ice Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drain	age Patterns (B10)
🖌 Saturatio	on (A3)		True Aqu	atic Plant	s (B14)		Dry-8	Season Water Table (C2)
Water M	larks (B1)		Hydroger	n Sulfide (Odor (C1)		Cray	fish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Li	ing Roots	(C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	e of Reduc	ed Iron (C	4)	Stunt	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ir	on Reduc	tion in Tille	ed Soils (Ce	6) 🖌 Geor	norphic Position (D2)
Iron Dep	posits (B5)		Thin Muc	k Surface	(C7)		🖌 FAC-	Neutral Test (D5)
Inundati	on Visible on Aeria	al Imagery (B	37) Gauge of	r Well Dat	a (D9)			
Sparsely	y Vegetated Conca	ave Surface	(B8) Other (E:	xplain in R	emarks)			
Field Obser	vations:							
Surface Wat	er Present?	Yes	No Depth (i	nches):		_		
Water Table	Present?	Yes	No Depth (i	nches):		_		
Saturation P	resent?	Yes 🖌	No Depth (i	nches): <u>0</u>		Wetl	and Hydrology	Present? Yes 🖌 No
(includes cap	oillary fringe)	maura		I nhoton -	revioue in		if available:	
Describe Re		in gauge, n	ionitoring well, aella	i priotos, p	nevious in	specions),	n avalidule.	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen		Sampling Date:	2022-07-05
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-AM UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T3S R7E S	SN11	
Landform (hillslope, terrace, etc.): Flat	Local relief (conc	ave, convex, none):	None	
Slope (%): 0 Lat: 40.800684	Long: -84.027666		Datum: WGS 8	34
Soil Map Unit Name: Ble1B1		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗹 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	oresent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed	, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	ls the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AM.

20.64 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
4				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Sopling/Shruh Stratum (Plot size: 15 ft r)		= Total Cov	/er	Prevalence Index worksheet:
1				
2				
3				FACW species 10 x 2 = 20
4				FAC species 0 x 3 = 0
5				FACU species 90 x 4 = 360
		= Total Cov	/er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: <u>5 ft r</u>)				Column Totals: 100 (A) 380 (B)
1. Plantago lanceolata	35	~	FACU	
2. Trifolium pratense	30	~	FACU	Prevalence Index = B/A = 3.80
3. Festuca rubra	20	~	FACU	Hydrophytic Vegetation Indicators:
4. Erigeron philadelphicus	10		FACW	1 - Rapid Test for Hydrophytic Vegetation
5. Cichorium intybus	5		FACU	2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
ð				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100 /₀	= Total Cov	/er	be present, unless disturbed or problematic.
(Flot size)				
1				Hydrophytic
2				Present? Yes No
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

Profile Description	: (Describe t	o the depth	needed to docur	nent the indi	cator or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Features			
(inches) Col	lor (moist)		Color (moist)	. <u>%</u> _T	ype ¹ Loc ²	Texture	Remarks
<u>0-4</u> <u>10YF</u>	R 3/3	100				Silty Clay	Gravel inclusions
-							
-							
—— —							
-							
¹ Type: C=Concentra	ation. D=Depl	etion. RM=Re	educed Matrix. M	 S=Masked Sa	nd Grains.	² Location	: PL=Pore Lining, M=Matrix,
Hydric Soil Indicate	ors:					Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)			Sandy (Gleyed Matrix	(S4)	Coast	Prairie Redox (A16)
Histic Epipedon	(A2)		Sandy I	Redox (S5)	. ,	Dark S	Surface (S7)
Black Histic (A3	5)		Stripped	d Matrix (S6)		Iron-M	anganese Masses (F12)
Hydrogen Sulfid	le (A4)		Loamy	Mucky Minera	l (F1)	Very S	hallow Dark Surface (TF12)
Stratified Layers	s (A5)		Loamy	Gleyed Matrix	(F2)	Other ((Explain in Remarks)
2 cm Muck (A10	D)		Deplete	d Matrix (F3)			
Depleted Below	Dark Surface	(A11)	Redox I	Jark Surface	(F6)	³ Indicators	of hydrophytic vegetation and
Sandy Mucky M	lineral (S1)		Depiete		E (F 7)	Indicators	d hydrology must be present
5 cm Mucky Pe	at or Peat (S3)			-0)	unless	disturbed or problematic
Restrictive Laver (i	if observed):	/					
Type: Gravel	,						
Depth (inches):	4					Hydric Soil	Present? Yes No
Remarks:							
	bcont						
Hyunc son a	ibsent.						
HYDROLOGY							
Wetland Hydrology	/ Indicators:						
Primary Indicators (r	minimum of or	ne is required	; check all that ap	oply)		Seconda	ary Indicators (minimum of two required)
Surface Water ((A1)		Water-Sta	ined Leaves (B9)	Surf	ace Soil Cracks (B6)
High Water Tab	le (A2)		Aquatic Fa	auna (B13)	-	Drai	nage Patterns (B10)
Saturation (A3)			True Aqua	tic Plants (B1	4)	Dry-	Season Water Table (C2)
Water Marks (B	1)		Hydrogen	Sulfide Odor	(C1)	Cray	yfish Burrows (C8)
Sediment Depo	sits (B2)		Oxidized F	Rhizospheres	on Living Roots	(C3) Satu	uration Visible on Aerial Imagery (C9)

- ____ Oxidized Rhizospheres on Living Roots (C3) ____ Saturation Visible on Aerial Imagery (C9)
 - ____ Stunted or Stressed Plants (D1)
 - Geomorphic Position (D2)

 Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) 	 Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) 	Geomorphic Position (D2) FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B) Other (Explain in Remarks)	
Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No	Depth (inches): Depth (inches): Depth (inches): Depth (inches):	
(includes capillary fringe) Describe Recorded Data (stream gauge, mon	oring well, aerial photos, previous inspections), if	available:
Remarks: Wetland hydrology absent.		

Presence of Reduced Iron (C4)

Drift Deposits (B3)

Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen		Sampling Date:	2022-07-05		
Applicant/Owner: AEP	Stat	_{e:} Ohio	Sampling Point:	1-AN		
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OHO	1 T3S R7E S	N11			
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave, c	convex, none):	Concave			
Slope (%): 2 Lat: 40.801761	Long: -84.026286		Datum: WGS 8	34		
Soil Map Unit Name: PmA		NWI classifica	ation: N/A			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If n	o, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Cir	cumstances" pr	resent? Yes	✓No		
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, expla	ain any answer	s in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V Yes V Yes No Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:		

PEM. ORAM score of 32.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 5 (A)
2				Total Number of Demission
3.				Species Across All Strata: 5 (B)
۵ ۸				
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: <u>100</u> (A/B)
Continue (Charle Other transmission) 15 ft r		= Total Cov	er	Brovalance Index worksheet:
Sapling/Shrub Stratum (Plot size:)				
1	·			I otal % Cover of: Multiply by:
2				OBL species 40 x 1 = 40
3				FACW species <u>60</u> x 2 = <u>120</u>
4				FAC species $20 \times 3 = 60$
5				FACU species 0 x 4 = 0
	·			$\frac{1}{1}$
Herb Stratum (Plot size: 5 ft r)		= Total Cov	/er	$\frac{1}{2}$
Carex vulpinoidea	40	~	FACW	Column Totals: $\underline{120}$ (A) $\underline{220}$ (B)
- Carex tribulaides	20			Provolonoo Indox = P/A = 1.83
2. Carex tribuloides	20			
3. Rumex crispus	20		FAC	Hydrophytic Vegetation Indicators:
4. Scirpus atrovirens		<u> </u>	OBL	1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
0	·			data in Remarks or on a separate sheet)
8	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10				¹ Indicators of hydric soil and wetland hydrology must
20 ft -	100%	= Total Cov	ver	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 50111)				
1. Vitis riparia		<u> </u>	FACW	Hydrophytic
2				Vegetation
	20%	= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate	sheet.)			1
	,			
Hydrophytic vegetation present.				

Profile Desc	ription: (Describe	to the de	pth needed to docu	ment the	e indicator	or confirm	n the absence	of indicators.)		
Depth	Matrix		Red	ox Featur	es					
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	_Loc ²	Texture	Remarks		
0 - 20	10YR 5/2	85	10YR 5/6	15	<u> </u>	PL / M	Silty Clay			
-										
-										
-										
-				_						
¹ Type: C=Co	oncentration, D=De	pletion, RM	M=Reduced Matrix, M	S=Maske	ed Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy	Gleyed N	/atrix (S4)		Coast	Prairie Redox (A16)		
Histic Ep	oipedon (A2)		Sandy	Redox (S	5)		Dark S	urface (S7)		
Black Hi	stic (A3)		Strippe	d Matrix	(S6)		Iron-Ma	anganese Masses (F12)		
Hydroge	en Sulfide (A4)		Loamy	Mucky M	lineral (F1)		Very S	hallow Dark Surface (TF12)		
Stratified	d Layers (A5)		Loamy	Gleyed N	Matrix (F2)		Other (Explain in Remarks)		
2 cm Mu	ick (A10)	(() ()	Peplete	ed Matrix	(F3)					
Depleted	d Below Dark Surface	ce (ATT)	Redox	Dark Sur	Tace (F6)		³ Indiantoro	of hydrophytic vocatation and		
Thick Da	AIK Sullace (A12) Auchy Mineral (S1)		Depleti	Depressi)	wetland	wetland hydrology must be present		
5 cm Mi	icky Peat or Peat (ST)	3)		Depressi	0115 (1-0)		unless	disturbed or problematic		
Restrictive I	aver (if observed)):						distanced of problematic.		
Type		,.								
Dopth (in	abaa):						Hydric Soil	Present? Yes No		
	ciles).									
Remarks:										
Hvdric s	soil present.									
,										
HYDROLO	GY									
Wotland Hw	drology Indicators									
		•	vizado aba alc all that a	m m la c)			Casanda	- Indiactors (minimum of two required)		
Primary Indic	cators (minimum or	one is req	uired; check all that a		(50)		<u>Seconda</u>	ry indicators (minimum of two required)		
Surface	Water (A1)		Water-Sta	ained Lea	ives (B9)		Surf	ace Soil Cracks (B6)		
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drai	nage Patterns (B10)		
Saturatio	on (A3)		True Aqu	atic Plant	s (B14)		Dry-	Season Water Table (C2)		
Water M	larks (B1)		Hydroger	Sulfide (Odor (C1)		Cray	rfish Burrows (C8)		
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Liv	ing Roots	(C3) Satu	ration Visible on Aerial Imagery (C9)		
Drift Dep	posits (B3)		Presence	of Reduc	ced Iron (C4	4)	Stur	ited or Stressed Plants (D1)		
Algal Ma	at or Crust (B4)		Recent In	on Reduc	tion in Tille	d Soils (C	6) 🖌 Geo	morphic Position (D2)		
Iron Dep	oosits (B5)		Thin Muc	k Surface	e (C7)		🖌 FAC	-Neutral Test (D5)		
Inundati	on Visible on Aerial	Imagery (B7) Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concav	e Surface	(B8) Other (Ex	plain in F	Remarks)					
Field Obser	vations:									
Surface Wat	er Present?	Yes	No 🥓 Depth (ir	nches):		_				
Water Table	Present?	Yes	No Depth (ir	iches):		_				

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen		Sampling Date:	2022-07-05
Applicant/Owner: AEP		_{State:} Ohio	Sampling Point:	1-AN UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: O	H01 T3S R7E S	N11	
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	ve, convex, none):	None	
Slope (%): 0 Lat: 40.801561	Long: -84.026411		Datum: WGS 8	34
Soil Map Unit Name: Ble1B1		NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal	Circumstances" p	resent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, e	explain any answer	s in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-AN.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species			
1				That Are OBL, FACW, or FAC: 0 (A)			
2				Total Number of Dominant			
3				Species Across All Strata: 2 (B)			
4.				()			
5				Percent of Dominant Species			
		- Total Cov		That Are OBL, FACW, of FAC: (A/B)			
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 000		Prevalence Index worksheet:			
1.				Total % Cover of: Multiply by:			
2				OBL species 0 x 1 = 0			
3				FACW species 0 x 2 = 0			
۵	·			EAC species 0 $x_3 = 0$			
4	·			EACLI species 100 x 4 - 400			
5	·			$\frac{1}{100} = \frac{1}{100} = \frac{1}$			
Herb Stratum (Plot size: 5 ft r)		= Total Cov	/er	$\frac{100}{100} \times 5 = \frac{100}{100} \times 5 = \frac{100}{100$			
1 Dipsacus fullonum	80	~	FACU	Column Totals: $(A) = (A) = (B)$			
2 Solidago canadensis	20	~	FACU	Prevalence Index = $B/A = 4.00$			
				Hydrophytic Vegetation Indicators:			
3	·			1 - Papid Test for Hydrophytic Vegetation			
4	·			1 - Kapid Test for Hydrophytic Vegetation			
5				2 - Dominance Test is >50%			
6	·			3 - Prevalence Index is ≤3.0°			
7				4 - Morphological Adaptations' (Provide supporting			
8				Drahlamatic Hudrankutic Venetation ¹ (Curlein)			
9				Problematic Hydrophytic Vegetation (Explain)			
10				1			
	100%	= Total Cov	/er	Indicators of hydric soil and wetland hydrology must			
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless disturbed of problematic.			
1				Hydrophytic			
2				Vegetation			
		= Total Cov	/er	Present? Yes No			
Remarks: (Include photo numbers here or on a separate sheet.)							
Hydrophytic vegetation absent.							

··· · ·	Matrix		Red	ox Feature	S1		_	
(inches)	Color (moist)	%	Color (moist)	%	Type'	_Loc ²	Texture	Remarks
0 - 20	10YR 6/3	97	10YR 5/6	3	<u> </u>	<u>M</u>	Silty Clay	
-								
-				_				
_					·			
					·			
-					·			
-								
-								
Type: C=Co	oncentration. D=De	pletion. RM	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix,
Hydric Soil	Indicators:						Indicators for Pr	roblematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed Ma	atrix (S4)		Coast Prairie	Redox (A16)
Histic Er	pipedon (A2)		Sandy	Redox (St	5)		Dark Surface	e (S7)
Black Hi	stic (A3)		Strippe	d Matrix (56)		Iron-Mangan	ese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mi	neral (F1)		Very Shallow	/ Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed M	atrix (F2)		Other (Expla	in in Remarks)
2 cm Mu	ick (A10) d Balaw Dark Surfa	aa (A11)	Deplete	ed Matrix (F3)			
Depleted	a Below Dark Surfa	ce (ATT)	Redox	Dark Suna	ace (F6) urface (E7)		³ Indicators of by	drophytic vegetation and
Thick Da	Aucky Mineral (S1)		Deplet	Depressio	inace (FR)		wetland bydr	ology must be present
5 cm Mu	icky Peat or Peat (S	\$3)		Depressio	113 (1 0)		unless distur	bed or problematic.
Restrictive I	Layer (if observed):						
Type:								
Depth (inc	ches):						Hydric Soil Prese	ent? Yes No
Remarks:								
	11							
Hydric s	soil absent.							
YDROLO	GY							
YDROLO Wetland Hyd	GY drology Indicators	:						
YDROLO Wetland Hyd	GY drology Indicators	: one is requ	ired: check all that a	pply)			Secondary Ind	icators (minimum of two required
YDROLO Netland Hyd Primary Indic	GY drology Indicators cators (minimum of Water (A1)	: one is requ	ired: check all that a Water-St	pply)	res (B9)		Secondary Ind	icators (minimum of two required
YDROLO Netland Hyd Primary Indic Surface High Wa	GY drology Indicators cators (minimum of Water (A1) oter Table (A2)	: one is requ	ired: check all that a Water-Sta	pply) ained Leav	res (B9)		Secondary Ind	icators (minimum of two required oil Cracks (B6) Patterns (B10)
YDROLO Netland Hyd Primary Indic Surface High Wa Saturatio	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)	: one is requ	ired: check all that a Water-Sta Aquatic F	pply) ained Leav auna (B13	res (B9)		<u>Secondary Ind</u> <u>Surface Surface Surfa</u>	icators (minimum of two required oil Cracks (B6) Patterns (B10) w Water Table (C2)
YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larke (B1)	: one is requ	ired: check all that a Water-Sta Aquatic F True Aqu	pply) ained Leav auna (B13 atic Plants	res (B9) ;) (B14) dor (C1)		<u>Secondary Ind</u> <u>Surface Surface Surfa</u>	icators (minimum of two required oil Cracks (B6) Patterns (B10) on Water Table (C2)
YDROLO Netland Hyd Primary Indic Surface High Wa Saturatic Water M	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) th Deposits (B2)	: one is requ	ired: check all that a Water-Sta Aquatic F True Aqu Hydroger	pply) ained Leav auna (B13 atic Plants Sulfide O Rhizoenbo	res (B9) ;) (B14) dor (C1)	ing Poots	<u>Secondary Ind</u> <u>Surface Si</u> Drainage I <u>Dry-Seaso</u> <u>Crayfish B</u>	icators (minimum of two required oil Cracks (B6) Patterns (B10) on Water Table (C2) Surrows (C8)
YDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimer	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	: one is requ	ired: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized	pply) ained Leav auna (B13 atic Plants Sulfide O Rhizosphe	res (B9) i) (B14) dor (C1) eres on Liv	ing Roots	<u>Secondary Ind</u> <u>Surface Secondary Ind</u> <u>Drainage I</u> <u>Dry-Sease</u> <u>Crayfish B</u> (C3) <u>Saturation</u>	icators (minimum of two required oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9)

____ FAC-Neutral Test (D5)

______Sparsely Vegetated Concave Surface (B8) _____Other (Explain in Remarks) Field Observations: Surface Water Present? Yes ______No _ Water Table Present? Yes ______No _ Depth (inches): _______ Saturation Present? Yes ______No _ Depth (inches): ________ Saturation Present? Yes ______No _ Depth (inches): ________ (includes capillary fringe) Depth (inches): _________ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Wetland hydrology absent.

____ Thin Muck Surface (C7)

___ Inundation Visible on Aerial Imagery (B7) ___ Gauge or Well Data (D9)

___ Iron Deposits (B5)

____ No ____

Project/Site: AEP Fostoria to Lima	City/County: Arcadia/H	Hancock	Sampling Date:	2022-06-29		
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-B		
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Rang	_{e:} OH01 T2N R12E	SN18			
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (co	oncave, convex, none):	Concave			
Slope (%): _2 Lat: _41.125137	Long: -83.517558		Datum: WGS 8	34		
Soil Map Unit Name: PmA		NWI classific	ation: R2UBH			
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology significantI	y disturbed? Are "No	ormal Circumstances" p	present? Yes	No		
Are Vegetation, Soil, or Hydrology naturally p	oblematic? (If need	ded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes ✓	Is the Sampled A within a Wetland	∖rea ? Yes∕	No	_		
Remarks: PEM. ORAM Score of 21.						
VEGETATION – Use scientific names of plants.						
Tree Stratum (Plot size:30 ft r) Absolute % Cove 1 2 3	e Dominant Indicator r <u>Species?</u> <u>Status</u>	Dominance Test work Number of Dominant Sp That Are OBL, FACW, of Total Number of Domin	sheet: pecies or FAC: <u>1</u> ant	(A)		
		openes Auross Airolla	· ·	(0)		

2 3 4				Total Number of Dominant Species Across All Strata: 1 Percept of Dominant Species
5	0%			That Are OBL, FACW, or FAC: <u>100</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)	070		er .	Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
3				FACW species 90 x 2 = 180
4				FAC species _0 x 3 = _0
5				FACU species <u>10</u> x 4 = <u>40</u>
		= Total Cov	ver	UPL species x 5 =
Herb Stratum (Plot size: <u>5 ft r</u>) 1. Phalaris arundinacea	90	~	FACW	Column Totals: 100 (A) 220 (B)
2. Cirsium arvense	10		FACU	Prevalence Index = B/A = 2.20
3				Hydrophytic Vegetation Indicators:
4.				✓ 1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
Woody Vine Stratum (Plot size: 30 ft r)	100%	_ = Total Cov	ver	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		= Total Cov	ver	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			·
Hydrophytic vegetation present.				

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SOIL	Sampling Point:
Profile Description: (Describe to the depth needed to docume	the indicator or confirm the absence of indicators.)
Depth Matrix Redox	atures
(inches) Color (moist) % Color (moist)	<u>% Type¹ Loc² Texture Remarks</u>
0 - 20 10YR 5/2 95 10YR 6/8	C M Silty Clay Loam
-	
· · · · · · · · · · · · · · · · · · ·	
-	
<u> </u>	
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=	asked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils':
Histosol (A1) Sandy Gle	ed Matrix (S4) Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Re	x (S5) Dark Surface (S7)
Black Histic (A3) Stripped M	trix (S6) Iron-Manganese Masses (F12)
Hydrogen Suilide (A4) Loamy Mu	ed Metrix (F1) Other (Explain in Remarks)
2 cm Muck (A10)	atrix (F2) Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Redox Da	Surface (F6)
Thick Dark Surface (A12) Depleted	rk Surface (F7) ³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	essions (F8) wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
Hydric soil present.	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that appl	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Staine	Leaves (B9) Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fau	(B13)
Saturation (A3) True Aquatic	lants (B14) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen St	de Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rh	spheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of	educed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron	eduction in Tilled Soils (C6) 🖌 Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck S	face (C7) Y FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or We	Data (D9)
Sparsely Vegetated Concave Surface (B8) Other (Expla	in Remarks)
Field Observations:	
Surface Water Present? Yes 🖌 No Depth (inch): 1
Water Table Present? Yes <u>Ves</u> No Depth (inch): 0
Saturation Present? Yes V No Depth (inch): 0 Wetland Hydrology Present? Yes V No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	os, previous inspections), if available:

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lim	a		City/County: Arcadia/Ha	ncock	Sampling Date: 202	22-06-29
Applicant/Owner: AEP				_ _{State:} Ohio	Sampling Point: 1-B	UPL
Investigator(s): Beth Hollinden, C	hris Davissor	۱ <u> </u>	_ Section, Township, Range: OH01 T2N R12E SN18			
Landform (hillslope, terrace, etc.): Fla	t		Local relief (con	cave, convex, none):	None	
Slope (%): 0 Lat: 41.125	5174		Long: -83.517573		Datum: WGS 84	
Soil Map Unit Name: PmA				NWI classific	cation: N/A	
Are climatic / hydrologic conditions on	the site typical f	or this time of ye	ear? Yes 🖌 No	_ (If no, explain in R	Remarks.)	
Are Vegetation, Soil, o	r Hydrology 🗾	, 	disturbed? Are "Norm	nal Circumstances"	present?Yes 🔽	No
Are Vegetation, Soil, o	r Hydrology	naturally pr	oblematic? (If needed	l, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site n	nap showing	g sampling point loca	tions, transects	s, important featu	res, etc.
Hydrophytic Vegetation Present?	Yes	V o				
Hydric Soil Present?	Yes	No	Is the Sampled Are	a		
Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	No	
Remarks:						
Upland point for Wetla	nd 1-B. Lo	ocated on	edge of agricult	ural field.		
· ·			5 5			
VEGETATION - Use scientific	names of pla	ants.				

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata; 0 (B)
4.				
5				Percent of Dominant Species
	·	- Total Ca		That Are OBL, FACW, or FAC: Nain (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10tai C0	vei	Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
··				OBL species 0 $x = 0$
2	·			EACW species 0 $x_2 = 0$
3	·			FACtive species 0 $x_2 = 0$
4	·			FAC species 0 $x_3 = 0$
5	·			FACU species $3 \times 4 = 20$
the location of the first state of the state		= Total Cov	ver	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: <u>Stratum</u>)	25			Column Totals: <u>5</u> (A) <u>20</u> (B)
	- 23			4.00
2. Zea mays	- 25	<u> </u>		Prevalence Index = B/A = 4.00
3. Phleum pratense			FACU	Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10	EE%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	55%	= Total Cov	ver	be present, unless disturbed or problematic.
I	·			Hydrophytic Vegetation
2				Present? Yes No
		= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate s	sneet.)			
Hydrophytic vegetation absent, 45	% bare	groun	d due t	o farming.

Profile Description: (Describe to the depth needed to document the indicator or o	confirm the absence of indicators.)
Depth Matrix Bedox Features	
(inches) Color (moist) % Color (moist) % Type ¹ L	
0 - 20 10YR 3/3 100	Clay Loam
·	
·	
·	
-	
· · · · · · · · · · · · · · · · · · ·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains	2 Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3) Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10) Depleted Matrix (F3)	
Depleted Below Dark Surface (A12) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present
5 cm Mucky Peat or Peat (S3)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Type:	
Denth (inches):	Hydric Soil Present? Yes No
Pemarke:	
Hydric soil absent.	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	pils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Ves No V Depth (inches):	
Vale rable resent? resNODepth (inches)	Wetland Hudralamy Dresent O. Ver. No.
Saturation Present? Yes No _ Depth (Inches):	wettand Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Arcadia/Hancock Sampling Date: 2022-06-29						
Applicant/Owner: AEP	State: Ohio Sampling Point: 1-C						
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11E SN24						
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave, convex, none): Concave						
Slope (%): 2 Lat: 41.117853	Long: -83.540313 Datum: WGS 84						
Soil Map Unit Name: PmA	NWI classification: R4SBC						
Are climatic / hydrologic conditions on the site typical for this tim	ie of year? Yes No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology signi	ficantly disturbed? Are "Normal Circumstances" present? Yes No						
Are Vegetation, Soil, or Hydrology natu	ally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No							
Hydric Soil Present? Yes 🔽 No _	Is the Sampled Area						
Wetland Hydrology Present? Yes 🗸 No	within a Wetland? Yes Ves No						

Remarks: PEM. ORAM Score of 21.

Wetland Hydrology Present?

VEGETATION – Use scientific names of plants.

Yes 🖌 No 🔄

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Deminent
3.				I otal Number of Dominant Species Across All Strata: 1 (B)
۵ ۸				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
Continue (Chartheorem (Chatheiner, 15 ft r		= Total Cov	er	Brovelence Index workeheet:
Sapling/Shrub Stratum (Plot size:)				
1				I otal % Cover of: Multiply by:
2				OBL species 0 x 1 = 0
3				FACW species 90 x 2 = 180
4.				FAC species 0 x 3 = 0
5				FACU species 10 $x = 40$
<u> </u>		- Total Car		$ P \text{ species } 0 \qquad x = 0$
Herb Stratum (Plot size: 5 ft r)		- Total Cov	er	$\frac{1}{2} \frac{1}{2} \frac{1}$
Phalaris arundinacea	90	~	FACW	Column lotais: $\underline{100}$ (A) $\underline{220}$ (B)
Cirsium arvense	10		FACIL	Prevalence index = $B/A = 2.20$
			1700	
3				Hydrophytic Vegetation Indicators:
4				✓ 1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
a				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Weedy Vine Stratum (Plateize: 30 ft r)	100%	= Total Cov	er	be present, unless disturbed or problematic.
Convolvulus arvonsis	10	~		
				Hydrophytic
2				Vegetation Present? Ves No
	10%	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Hydrophytic vegetation present.				

SOIL	SOIL Sampling Point: 1-C								
Profile Desc	ription: (Describe	to the dep	oth needed to docu	ument the	indicato	r or confi	rm the absence of	findicators.)	
Depth	Matrix		Red	lox Featur	es		_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 20	10YR 5/2	70	10YR 5/6	25		M	Silty Clay		
0-20	10YR 5/2	70	10YR 3/1	_ 5	D	M			
-									
-									
					_				
-									
-									
¹ Type: C=Ce	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	MS=Maske	ed Sand G	 Brains.	² Location:	PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators fo	or Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy	Gleyed N	latrix (S4)		Coast Pr	airie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy	Redox (S	5)		Dark Sur	face (S7)	
Black Hi	stic (A3)		Stripp	ed Matrix	(S6)		Iron-Man	ganese Masses (F12)	
Hydroge	n Sulfide (A4)		Loamy	Mucky M	lineral (F1)	Very Sha	allow Dark Surface (TF12)	
Stratified	Layers (A5)		Loamy	Gleyed N	Aatrix (F2))	Other (Ex	xplain in Remarks)	
2 cm Mu	ıck (A10)		🖌 Deplet	ted Matrix	(F3)				
Depleted	d Below Dark Surfac	ce (A11)	Redox	Dark Sur	face (F6)				
Thick Da	ark Surface (A12)		Deplet	ted Dark S	Surface (F	7)	³ Indicators of	f hydrophytic vegetation and	
Sandy M	lucky Mineral (S1)		Redox	Depressi	ons (F8)		wetland hydrology must be present,		
5 cm Mu	icky Peat or Peat (S	3)					unless di	sturbed or problematic.	
Restrictive	Layer (if observed)	:							
Туре:							Hydric Soil D	rosont2 Vos V No	
Depth (in	ches):						Hydric Soli Fi		
Remarks:									
Hydric	soil present.								
HYDROLO	GY								
Wetland Hy	drology Indicators	:							
Primary India	cators (minimum of o	one is requ	ired; check all that a	apply)			<u>Secondary</u>	Indicators (minimum of two required)	
🖌 🗹 Surface	Water (A1)		Water-St	tained Lea	ves (B9)		Surfac	e Soil Cracks (B6)	
🖌 🗹 High Wa	iter Table (A2)		Aquatic F	Fauna (B1	3)		💆 Draina	age Patterns (B10)	
🖌 🖌 Saturatio	on (A3)		True Aqu	uatic Plant	s (B14)		Dry-Se	eason Water Table (C2)	
Water M	arks (B1)		Hydroge	n Sulfide (Odor (C1)		Crayfis	sh Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on L	iving Root	s (C3) Satura	tion Visible on Aerial Imagery (C9)	
Drift Dep	posits (B3)		Presence	e of Reduc	ed Iron (C4)	Stunte	d or Stressed Plants (D1)	
Algal Ma	at or Crust (B4)		Recent I	ron Reduc	tion in Till	ed Soils (0	C6) 🗸 Geom	orphic Position (D2)	
Iron Der	osits (B5)		Thin Muc	ck Surface	(C7)	(FAC-N	Neutral Test (D5)	
Inundati	on Visible on Aerial	Imagery (F	(7) Gauge o	r Well Dat	a (D9)				
Sparsely	Vegetated Concav	e Surface	(B8) Other (E)	xplain in F	(emarks)				
Field Obser	vations:		, (L		/				
Surface Wat	er Present?	res 🗸	No Depth (i	inches): 1					
Water Table	Present?	res 🗸	No Depth (i	inches): 0					
Saturation P	resent?	/es 🖌	No Depth (i	nches): 0		We	atland Hydrology F	Present? Yes 🖌 No	
(includes cap	oillary fringe)		opitoring well perio	I photos) if available:		
Describe Re	conteu Data (stream	i gauge, m	ontoning well, aeria	i priotos, p	nevious li	spections	, il avaliable.		

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Arcadia/Har	ncock	Sampling Date:	2022-06-29
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-C UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN24	
Landform (hillslope, terrace, etc.): Flat	Local relief (conc	ave, convex, none):	None	
Slope (%): 0 Lat: 41.117862	Long: -83.540266		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	present? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed	, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No ✓ Yes ✓ No Yes No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Upland Point for Wetland 1-C.

20 († -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata; 4 (B)
4.				(-,
5				Percent of Dominant Species
···		- Total Cav		That Are OBL, FACW, or FAC: 23 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10tal COV	ei	Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
··				OBL species 0 $x = 0$
2				EACW species 10 $x_2 = 20$
3				$\frac{1}{2} = \frac{1}{2}$
4				FAC species 0 $x^3 = 0$
5				FACU species $\frac{30}{2}$ $x 4 = \frac{300}{2}$
Hart Stratum (Distainer 5 ft r		= Total Cov	er	UPL species 0 $x 5 = 0$
Bromus inermis	40	~	FACU	Column Totals: 100 (A) 380 (B)
	20			Dravalance lades = D(A = 3.80
	30	<u> </u>	FACU	
3. Phytolacca americana		<u> </u>	FACU	Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				$_$ 3 - Prevalence Index is $\leq 3.0^1$
7.				4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
10.	90%	- Total Cau		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	50%	= Total Cov	er	be present, unless disturbed or problematic.
1 Vitis riparia	10	~	FACW	Indeedatie
2				Hydropnytic Vegetation
۷	10%			Present? Yes No
Pomarka: (Include photo numbero horo er en e concrete e	hoot)		er	
nemarks. (include proto numbers here of on a separate s	meet.)			
Hydrophytic vegetation present.				

Profile Description: (Description: (Descri										
Depth	Profile Desc	ription: (Describ	e to the de	pth neede	d to docur	nent the i	ndicator	or confin	m the absence	of indicators.)
Under High	Depth (in all a a)	Matrix	0/	Calar	Redo	x Features	<u>s</u>	1 a a ²	Tautum	Demedia
0 - 20 IOTR 3/2 95 IOTR 5/6 5 C M	(Incnes)					<u>%</u>	ype	LOC	Texture	Remarks
''Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Histos(I(A1)		10YR 3/2	_ 95	10YR :	0/6	5	<u> </u>	M		
	-									
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Phothematic Hydric Soils*: Indicators for Phothematic Hydric Soils*: Histos (A)	-									
''Type:										
'Type:									·	
''Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 'Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: 'Histic Eppedon (A2) Sandy Gleyed Matrix (S4) Coast Praine Redox (A16) Histic Eppedon (A2) Sandy Gleyed Matrix (S6) Loark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Users Surface (S7) Hydrogen Sulfide (A4) Loarmy Mucky Mineral (F1) Very Shalow Dark Surface (F12) Strattled Layers (A5) Loarmy Mucky Mineral (F1) Very Shalow Dark Surface (F12) Cam Mucky Mineral (S1) Redox Dark Surface (F6) ''Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictle Layer (if observed): Type: ''Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) Gom Mucky Peat or Peat (S2) Aquatic Flants (B13) Drainage Patterns (B10) No										
'Type: C=Concentration, D=Depeletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. 'Hidoto (A1) Sandy Gleyed Matrix (S4) Coast Praine Redox (A16) 'Histic Epipedion (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Inon-Manganese Masses (F12) 'Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Very Shallow Dark Surface (TF12) 2 cm Muck (A10) Depleted Matrix (S6) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (S7) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Dark Surface (F6) *Indicators of hydrophytic vegetation and wells on problematic. S cm Mucky Peat or Peat (S3) unless disturbed or problematic. *No										
Type: C-concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Histos Oil Indicators: Histos Oil Indicators: Histos Oil Microscience Masses (F12) Histos (A3) Black Histic (A3) Loamy Medx (S5) Loamy Medx Mirris (S6) Loamy Medx Mirris (S7) Black Histic (A3) Loamy Mucky Mineral (F1) Very Shailow Dark Surface (F12) Statified Layers (A5) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy Micky Mineral (F1) Very Shailow Dark Surface (F17) Thick Dark Surface (A11) Medx Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Thick Dark Surface (S3) Redox Dark Surface (F7) Hydric Soil Present? Yes Yes No Remarks: Hydric Soil Present? Yes Yes No Surface Vater (A11) Surface Soil Present? Yes No Secondary Indicators (minimum of two required) Surface Vater (A11) Surface Soil Cracks (B6) High Vater Table (A2) Aquatic Fatained Leaves (B9) Dirit Deposits (B3) Derit Deposits (B3) Drit Deposits (B3) Drit Marks (B1) Hydrogen Sufface Odor (C1) Saturation Visible on Aerial Imagery (C9) Drit Deposits (B3) Drit Nim Kuck Surface (C7) Saturation Visible on Aerial Imagery (B7) Saturation Visi	_									
Type:					Matrix M	- <u> </u>	Sand Gr	aine	² Location	PL=Pore Lipipg M=Matrix
Histos (A1)	Hydric Soil	Indicators:		I-Reduced		5-IVIASKEU	i Sanu Gi	anis.	Indicators	for Problematic Hydric Soils ³ :
	Histosol	(Δ1)			Sandy (Sloved Ma	triv (S4)		Coast	Prairie Redox (A16)
□ Black Hislic (A3) □ Stripped Matrix (S6) □	Histic Fr	pipedon (A2)		-	Sandy F	Redox (S5			Dark S	urface (S7)
	Black Hi	stic (A3)		_	Stripped	d Matrix (S	, 6)		Iron-Ma	anganese Masses (F12)
	 Hydroge	n Sulfide (A4)			Loamy	Mucky Mir	neral (F1)		Very S	hallow Dark Surface (TF12)
_ cm Muck (A10)	Stratified	Layers (A5)		_	_ Loamy	Gleyed Ma	atrix (F2)		Other (Explain in Remarks)
	2 cm Mu	ick (A10)		_	_ Deplete	d Matrix (F	F3)			
	Depleted	d Below Dark Surfa	ace (A11)	<u>•</u>	_ Redox [Dark Surfa	ice (F6)			
	Thick Date	ark Surface (A12)		_	_ Deplete	d Dark Su	rface (F7)	³ Indicators	of hydrophytic vegetation and
	Sandy M	_ Sandy Mucky Mineral (S1) Redox Depressions (F8) wet					wetland	hydrology must be present,		
Restrictive Layer (in observed): Type:	5 cm Mu	icky Peat or Peat (S3)						unless	disturbed or problematic.
Type:	Restrictive	Layer (if observed	1):							
Depth (inches):	Type:								Hydric Soil	Present? Yes 🖌 No
Remarks: Hydric soil present. Hydric soil present. Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)	Depth (in	ches):								
Hydric soil present. Hydric soil present. Hydric soil present. Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Craftish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Dirit Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Saturati	Remarks:									
Hybric control present: Yinte control present: Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required: check all that apply)	Hydric	soil present	•							
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfde Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Inon Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inudation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No V Saturation Present? Yes No Depth (inches): Wetland Hydrology Presen	i i y ai i o t		•							
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)										
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)										
Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)	HYDROLO	GY								
Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required)	Wetland Hv	drology Indicator	s:							
	Primary India	ators (minimum of	one is requ	ired [.] chec	k all that ar	(vlac			Seconda	ry Indicators (minimum of two required)
Oundee Out of data (b) Advance Cauces (b) Aquatic Fauna (B13) Drainage Patterns (B10) Aquatic Fauna (B13) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Mater Table Present? Yes No Depth (inches): Mater Table Present? Yes No Depth (inches): Metar Table Present? Yes No Depth (inches): Mater Table Present? Yes No Depth (inches): Metar Table Present? Yes No Depth (inches): Mater Table Present? Yes No Depth (inches): Metard Hydrology Present? Yes No V Depth (inches): Depth (i	Surface	Water (A1)			Water-Sta	ined Leave	es (B9)		Surf	ace Soil Cracks (B6)
Ingli Vater Table (n2)	Uunace	Valer(A1)				una (B13))		Ouria	nage Batterns (B10)
Saturation (KS) Inde Aquate Prains (B14) Diversal of the Partie (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Mo Depth (inches): Mo Depth (inches): Mo Depth (inches): Saturation Present? Yes No Depth (inches): Mo Mo Depth (inches): Mo Mo	Fiight We			_		tic Plants	/ (B14)		Drai	Season Water Table (C2)
Water Marks (B1)	Oaturatio	arks (B1)		—	Hydrogon		(C14)		Dry-	dish Burrows (C8)
Contracted Witted Wi	Viater IV	at Deposite (B2)		_		Phizoenho	res on Liv	vina Poots	(C3) Satu	ration Visible on Aerial Imagery (CQ)
Intro Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sedimer	n Deposits (B2)			Dresence	of Peduce	d Iron (C		(CS) Stur	ted or Stressed Plants (D1)
Algal Mart of Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Ves Depth (inches): Saturation Present? Yes No Ves Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		ot or Crust (B4)		_	Presence Recent Iro	n Reducti	on in Tille	t) d Soile (C	6) Goo	morphic Position (D2)
Include Deposits (bb) Include Deposits (bb) Include Contract (bb) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Ves Surface Water Present? Yes No V Depth (inches): Ves Saturation Present? Yes No V Depth (inches): Ves (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		at of Clust (D4)		—	Thin Muck			u 30115 (C		-Neutral Test (D5)
	Inundati	on Visible on Aeria	l Imagany (F		Gauge or l	Well Data				-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No _ Depth (inches): Water Table Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes No _ Saturation Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes No _ No _ Cincludes capillary fringe) Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No _ No _ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Statiable: Statiable	munuali		we Surface	(B8)	Other (Eve	vven Data	(Do)			
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Operation	vegetated Conca	ive Surface	(60)			illarks)			
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Mart	valions:	Vaa		Denth (aboc':				
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No _ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface vvat	er Present?	res		Depth (In	cnes):		-		
Saturation Present? Yes No v Depth (inches): Wetland Hydrology Present? Yes No v (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	vvater Table	Present?	res	NO	Depth (in	cnes):		-		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation P	resent?	Yes	No _	Depth (in	ches):		_ Wet	land Hydrology	/ Present? Yes No
	Describe Re	corded Data (strea	m gauge, m	onitoring v	vell, aerial i	photos, pre	evious ins	spections)	, if available:	

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Arcadia/Hancock	Sampling Date: 2022-06-29
Applicant/Owner: AEP	State: Ohio	_ Sampling Point: 1-D
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11	E SN23
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave, convex, none	e): Concave
Slope (%): 2 Lat: 41.112758	Long: -83.556261	Datum: WGS 84
Soil Map Unit Name: SoA	NWI classi	ification: R2UBH
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances	" present? Yes 🗾 No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transec	ts, important features, etc.

Hydrophytic Vegetation Present?	Yes No	
Hydric Soil Present?	Yes No	Is the Sampled Area
Wetland Hydrology Present?	Yes 🥢 No	within a Wetland? Yes <u>V</u> No

Remarks:

PSS. Vegetation, soil, and hydrology were disturbed via removal of vegetation and addition of fill and culverts to create a berm. ORAM score of 32.

00.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Deminant
3.				Species Across All Strata: 3 (B)
4				
E				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>IUU</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
Salix nigra	35	~	OBI	Total % Cover of: Multiply by:
				$\frac{1}{10000000000000000000000000000000000$
2				OBL species $\frac{40}{60}$ $x^{\dagger} = \frac{40}{120}$
3				FACW species $\frac{60}{20}$ x 2 = $\frac{120}{20}$
4				FAC species <u>30</u> x 3 = <u>90</u>
5				FACU species 0 x 4 = 0
	35%	= Total Cov	er	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 135 (A) 255 (B)
1. Phalaris arundinacea	60	<u> </u>	FACW	
2. Acer negundo	20	 ✓ 	FAC	Prevalence Index = B/A = 1.89
3. Salix nigra	10		OBL	Hydrophytic Vegetation Indicators:
4. Toxicodendron radicans	10		FAC	1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is $\leq 3.0^{1}$
7				4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total Cov	er	be present, unless disturbed or problematic.
1. Convolvulus arvensis	10	~		Hydrophytic
2				Vegetation
۷	10%	- Tatal Car		Present? Yes No
Bemerke: (Include photo numbers here or on a consistent	heat)		er	
remarks. (include photo numbers here of on a separate s	neet.)			
Hydrophytic vegetation present.				

SOII

SOIL								Sampling Point:
Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the	indicator	or confir	m the absence	of indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ²	Texture	Remarks
	10YR 4/2	90	10YR 5/6	10	<u> </u>	М	Silty Clay Loam	
<u>4 ⁻ 20</u>	10YR 4/2	75	10YR 5/6	25	<u> </u>	M	Silty Clay Loam	
-								
-					_			
-								
-								
-								
¹ Type: C=Co	oncentration. D=Dep	etion. RM	=Reduced Matrix, MS	S=Maske	d Sand G	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:		neudood mann, me				Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	Sleyed N	latrix (S4)		Coast	Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy F	Redox (S	5)		Dark S	Surface (S7)
Black Hi	istic (A3)		Stripped	Matrix (S6)		Iron-M	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy M	Mucky M	ineral (F1)		Very S	Shallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy (Gleyed N	latrix (F2)		Other	(Explain in Remarks)
2 cm Mu	uck (A10)		Depleted	d Matrix	(F3)			
Depleted	d Below Dark Surfac	e (A11)	Redox D	Dark Sur	face (F6)		2	
Thick Da	ark Surface (A12)		Depleted	d Dark S	urface (F7)	Indicators	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	2)	Redox L	Depressi	ons (F8)		wetlan	d hydrology must be present,
S cm wu	loky real of real (3.	5)					uniess	disturbed of problematic.
Tupo	Layer (il observeu).							
Depth (in	chee):						Hydric Soil	Present? Yes 🧹 No
Deptil (ind	cnes).							
Hydric s	soil present.							
HYDROLO	GY							
Wetland Hyd	drology Indicators:			- 1- 3			0 d	
Primary India	cators (minimum of o	ne is requi	red; check all that ap	piy)	(D0)		<u>Seconda</u>	ary indicators (minimum of two required)
	Water (A1)		Water-Star	ned Lea	ves (B9)		Sur	face Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	una (B1	3)		Dra	Inage Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plant	s (B14)		Dry-	-Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide C	Ddor (C1)		Cra	yfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized R	hizosph	eres on Li	ing Roots	s (C3) Sati	uration Visible on Aerial Imagery (C9)
🖌 Drift Dep	posits (B3)		Presence of	of Reduc	ed Iron (C	4)	Stur	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	tion in Tille	ed Soils (C	(6) 🖌 Geo	omorphic Position (D2)
Iron Dep	posits (B5)		Thin Muck	Surface	(C7)		FAC	C-Neutral Test (D5)
Inundati	on Visible on Aerial I	magery (B	7) Gauge or \	Nell Dat	a (D9)			
Sparsely	y Vegetated Concave	e Surface (B8) Other (Exp	lain in R	emarks)			
Field Obser	vations:			4				
Surface Wate	er Present? Y	es	No Depth (inc	ches):		—		
Water Table	Present? Y	es 🔽	No Depth (inc	ches): 0		_		_
Saturation P (includes cap	resent? Y pillary fringe)	es	No Depth (inc	ches): 0		Wet	tland Hydrolog	y Present? Yes 🔽 No
Describe Re	corded Data (stream	gauge, m	onitoring well, aerial p	photos, p	revious in	spections)	, if available:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Arcadia/Hancock	2022-06-29	
Applicant/Owner: AEP	State: Ohio	Sampling Point:	1-D UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11E	SN23	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None	
Slope (%): 0 Lat: 41.112835	Long: -83.5563	Datum: WGS 8	34
Soil Map Unit Name: SoA	NWI classifica	ation: R2UBH	
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🗾 No (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" p	resent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes No			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No	_	Is the Sampled Area within a Wetland?	Yes	No
Remarks:						

Upland point for Wetland 1-D. Located on edge of agricultural field.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				
2				Total Number of Dominant
J				Species Across All Strata: 0 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: NaN (A/B)
		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				OBL species $0 \qquad x = 0$
2				EACW expectes 0 $x^2 = 0$
J				
4				FAC species 0 $x^3 = 0$
5				FACU species 10 x 4 = 40
		= Total Cov	/er	UPL species 0 x 5 = 0
Herb Stratum (Plot size: <u>5 ft r</u>)				Column Totals: 10 (A) 40 (B)
1. Glycine max	25	~		
Delevine masteries	5		FACU	Prevalence Index = $B/A = 4.00$
2. Phieum pratense	5		FACU	
2. Prieum pratense 3. Trifolium repens	5		FACU	Hydrophytic Vegetation Indicators:
2. Prieum pratense 3. Trifolium repens 4.	5		FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
2. Prieum pratense 3. Trifolium repens 4	5		FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
2. Prieum pratense 3. Trifolium repens 4 5 6.	5		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01
Prieum pratense Trifolium repens	5		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
2. Prieum pratense 3. Trifolium repens 4.	5		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)
2. Prieum pratense 3. Trifolium repens 4.	5		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. Prieum pratense 3. Trifolium repens 4.	5		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain)
2. Prieum pratense 3. Trifolium repens 4.			FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. Prieum pratense 3. Trifolium repens 4	<u>5</u> <u>5</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
2. Prieum pratense 3. Trifolium repens 4	<u>5</u> <u>5</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Prieum pratense 3. Trifolium repens 4	<u>5</u> <u>5</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Prieum pratense 3. Trifolium repens 4	<u>5</u> <u>5</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation1
2. Prieum pratense 3. Trifolium repens 4	<u>5</u> <u>5</u> <u>35%</u>		FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present?
2. Prieum pratense 3. Trifolium repens 4	3 5 35%	= Total Cov	FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present?
2. Prieum pratense 3. Trifolium repens 4	3 5 35%	= Total Cov	FACU FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1 (Explain) 1ºIndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present?

Profile Desc	cription: (Describe	to the dept	h needed to document the indicator or confi	irm the absence of indicators.)
Depth	Matrix		Redox Features	_
(inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ²	Texture Remarks
0 - 20	10YR 4/3	100		Clay Loam
-				
		·		
——				
-				
-				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		lation DM-	Badwaad Matrix, NS=Maskad Sand Crains	² Leastier: DI = Dere Lining M=Metrix
Hydric Soil	Indicators:	Dietion, RIVI=	Reduced Matrix, MS=Masked Sand Grains.	Indicators for Problematic Hydric Soils ³ :
Historol	(A1)		Sandy Clayed Matrix (S4)	Coast Province Poder (A16)
Histic Fi	ninedon (A2)		Sandy Bedox (S5)	Dark Surface (S7)
Black H	istic (A3)		Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Mu	uck (A10)		Depleted Matrix (F3)	
Deplete	d Below Dark Surfac	æ (A11)	Redox Dark Surface (F6)	
Thick Da	ark Surface (A12)		Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy N	Aucky Mineral (S1)	•	Redox Depressions (F8)	wetland hydrology must be present,
5 cm IVIL	LICKY Peat or Peat (S	3)		uniess disturbed or problematic.
Tunoi	Layer (II observed)	•		
Type:				Hydric Soil Present? Yes No
Depth (in	ches):			
Remarks:				
Hydric	soil absent.			
HYDROLO	GY			
Wetland Hy	drology Indicators:			
Primary Indi	cators (minimum of o	one is require	ed; check all that apply)	Secondary Indicators (minimum of two required
Surface	Water (A1)		Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturati	on (A3)		True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water M	larks (B1)		Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized Rhizospheres on Living Roo	ts (C3) Saturation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)

____ Thin Muck Surface (C7)

Yes _____ No ____ Depth (inches): ____

Yes ____ No _ Depth (inches): ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Yes _____ No ____ Depth (inches): ______

____ FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes _____ No ____

Remarks: Wetland hydrology absent.

Inundation Visible on Aerial Imagery (B7)
 Sparsely Vegetated Concave Surface (B8)
 Other (Explain in Remarks)

____ Iron Deposits (B5)

Field Observations:

Saturation Present? (includes capillary fringe)

Surface Water Present?

Water Table Present?

Project/Site: AEP Fostoria to Lima City/						City/County: Findlay/Hancock Sampling Date: 2022-06-30					
Applicant/Owner: AEP					State: Ohio Sampling Point: 1-E						
Investigator(s): Beth Hollinden, Chris Davisson					Section, Township, Range: OH01 T2N R11E SN27						
Landform (hillslope, terrace, etc.): _Depres	ssion	Toesl	оре			I	ocal relief	(concave, convex, none):	Concave		
Slope (%): 2 Lat: _41.104747	7			1	Long:	-83.	580473		Datum: WGS	84	
Soil Map Unit Name: PmA					0 -			NWI classific	ation: N/A		
Are climatic / hydrologic conditions on the s	ite typ	oical for	this tin	ne of yea	ar? Ye	s_	No	(If no, explain in R	emarks.)		
Are Vegetation 🖌 , Soil 🖌 , or Hyd	Irolog	v v	sign	ificantly of	disturb	ed?	Are °	"Normal Circumstances" p	resent? Yes	No	
Are Vegetation Soil , or Hyd	Irolog	v	 natu	rally pro	blemat	ic?	(lf ne	eded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Atta	ch s	ite ma	p sh	owing	sam	pling	g point l	ocations, transects	, important f	eatures,	, etc.
Hydrophytic Vegetation Present?	Yes _	~	No_								
Hydric Soil Present?	Yes _	 	No _			ls th	e Sampled	l Area			
Wetland Hydrology Present?	Yes _	<u> </u>	No _			with	n a Wetlar	nd? Yes	No		
Remarks:											
PEM. Escaping ditch line.	OR	AM s	scor	e of 1	3.						
VEGETATION – Use scientific nar	nes d	of plan	its.								
Trac Stratum (Plat size: 30 ft r	,		A	bsolute	Domi	nant	Indicator	Dominance Test work	sheet:		
1)			Cover	Spec	les?	Status	Number of Dominant S	pecies	(
2									<u> </u>	(<u>~</u>
3.								Total Number of Domin	ant ta: 1	((B)
4.										(
5								Percent of Dominant Sp That Are OBL, FACW, of	pecies or FAC: <u>100</u>	((A/B)
Sopling/Shrub Stratum (Plat aiza: 15 ft	r	,	_		= Tota	l Cov	er	Prevalence Index wor	kshoot.		
Saping/Shirub Stratum (Flot size	-)						Total % Cover of	Multir	olv by:	
2								OBL species 100	$\frac{1}{x_{1}} = 10$	0	
3								FACW species 0	$x_{2} = 0$		
4								FAC species 0	x 3 = 0		
5.								FACU species 0	× 4 = 0		
					= Tota	l Cov	er	UPL species 0	x 5 = 0		
Herb Stratum (Plot size: 5 ft r 1 Typha angustifolia	_)		1	00	v	,	OBL	Column Totals: 100	(A)10	0	(B)
2								Prevalence Index	= B/A = 1.00		
3.								Hydrophytic Vegetatio	on Indicators:		
4.								1 - Rapid Test for H	lydrophytic Vege	etation	
5								2 - Dominance Tes	t is >50%		
6								3 - Prevalence Inde	ex is ≤3.0 ¹		
7								4 - Morphological A	daptations ¹ (Pro	vide suppo	orting
8								Droblemetic Hudrey	s or on a separat	e sneet)	
9									onytic vegetation	i (⊏xpiain)	'
10								¹ Indicators of hydric soi	and wetland by	drology mi	ıst
Woody Vine Stratum (Plot size: 30 ft r		``	1	00%	= Tota	l Cov	er	be present, unless distu	irbed or problem	atic.	
1)									
2								Vegetation			
					= Tota		er	Present? Yes	s <u> </u>		
Remarks: (Include photo numbers here o	r on a	separa	te she	et.)	1010			1			+
Hydrophytic vegetation p	ores	ent.		-							

L

SOIL								Sampling Point: 1-E
Profile Desc	cription: (Descril	be to the de	pth needed to docur	nent the	indicator	or confir	m the absence	of indicators.)
Depth	Matrix Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 4/1	95	10YR 5/6	5	С	М	Silty Clay	
_								
							·	
-								
——								
-							·	
¹ Type: C=C	oncentration, D=D	epletion, RM	I=Reduced Matrix, M	S=Maske	ed Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils':
Histosol	(A1)		Sandy (Gleyed N	latrix (S4)		Coast	Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy I	Redox (S	65) (50)		Dark S	Surface (S7)
Black H	istic (A3)		Stripped	d Matrix ((S6) Kasaral (E4)		Iron-M	anganese Masses (F12)
Hydroge	en Suitide (A4)		Loamy		Ineral (F1)		Very S	(Explain in Remarka)
2 cm Mi	u Layers (A5)		Loanny	d Matrix	(F3)			
Deplete	d Below Dark Surf	ace (A11)	Bedox l	Dark Sur	(F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark S	Surface (F7)		³ Indicators	of hydrophytic vegetation and
Sandy M	Aucky Mineral (S1)	Redox	Depressi	ons (F8)		wetland	d hydrology must be present,
5 cm Mi	ucky Peat or Peat	, (S3)	_		()		unless	disturbed or problematic.
Restrictive	Layer (if observe	d):						
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								
		_						
Hydric :	soil presen	t.						
HYDROLO	GY							
Wetland Hy	drology Indicato	rs:						
Primary Indi	cators (minimum c	of one is requ	ired; check all that ap	oply)			Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Lea	ves (B9)		✓ Surf	ace Soil Cracks (B6)
Hiah Wa	ater Table (A2)		Aquatic Fa	auna (B1	3)		V Drai	nage Patterns (B10)
Saturati	on (A3)		True Aqua	tic Plant	s (B14)		Drv-	Season Water Table (C2)
Water M	larks (B1)		Hvdrogen	Sulfide (Odor (C1)		Crav	(fish Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized F	Rhizosph	eres on Liv	ina Roots	(C3) Satu	uration Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Reduc	ced Iron (C4	ł)	Stur	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	tion in Tille	d Soils (C	(6) 🖌 Geo	morphic Position (D2)
Iron Der	posits (B5)		Thin Muck	Surface	(C7)		FAC	C-Neutral Test (D5)
Inundati	on Visible on Aeri	al Imagery (B	Gauge or	Well Dat	a (D9)			
Sparsel	v Vegetated Conc	ave Surface	(B8) Other (Ex	olain in R	Remarks)			
Field Obser	vations:		· · · ·		,			
Surface Wat	er Present?	Yes	No 🖌 Depth (in	ches).				
Water Table	Present?	Yes	No V Depth (in	chee).		-		
Saturation D	recent?	Voc	No V Dopth (in	ches).		-	land Hydrolog	Prosent? Vos V No
Saturation P	iesent?	165	Depth (In	ules).			and nyurology	

Remarks:

Wetland hydrology present.

(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-E/F UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R	11E SN27
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, no	one): None
Slope (%): 0 Lat: 41.104745	Long: -83.580473	Datum: WGS 84
Soil Map Unit Name: PmA	NWI cla	ssification: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstanc	es" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any ar	nswers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transe	ects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-E and Wetland 1-F.

00 th	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
A				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Conting/Chruh Stratum (Distaire) 15 ft r		= Total Cov	er	Prevalence Index worksheet:
Saping/Shiub Stratum (Plot size)				
1				
2				OBL species 0 $x_1 = 0$
3				FACW species $0 \times 2 = 0$
4				FAC species <u>10</u> x 3 = <u>30</u>
5.				FACU species 80 x 4 = 320
		= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)		rotar oor	01	Column Totals: 90 (A) 350 (B)
1. Festuca rubra	30	~	FACU	
2. Solidago canadensis	30	~	FACU	Prevalence Index = B/A = <u>3.89</u>
3. Digitaria bicornis	20	~	FACU	Hydrophytic Vegetation Indicators:
4. Rumex crispus	10		FAC	1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
°				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
30 ft r	90%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1				Hydrophytic
2				Vegetation Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Hydrophytic vegetation absent.				

Profile Description: (Describe to the de	pth needed to docu	ment the	indicator	or confir	m the absence of indicators.)		
DepthMatrix	Rede	ox Featur	es		_		
(inches) Color (moist) %	Color (moist)	%	Type ¹	_Loc ²	Texture Remarks		
0 - 14 10YR 4/1 100					Silty Clay		
14 - 20 10YR 4/1 95	10YR 5/6	5	<u>с</u>	м	Silty Clay		
	10111070						
-							
					² l continu		
Hydric Soil Indicators:	I=Reduced Matrix, M	5=Maske	ed Sand Gr	ains.	Indicators for Problematic Hydric Soils ³		
Historol (A1)	Sandy	Cloved M	latrix (SA)		Coast Prairie Reday (A16)		
Histic Enjpedon (A2)	Sandy	Redox (S	(34)		Dark Surface (S7)		
Black Histic (A3)	Strippe	d Matrix ((S6)		Iron-Manganese Masses (F12)		
Hydrogen Sulfide (A4)	Loamy	Mucky M	lineral (F1)		Very Shallow Dark Surface (TF12)		
Stratified Layers (A5)	Loamy	Gleyed N	Aatrix (F2)		Other (Explain in Remarks)		
2 cm Muck (A10)	Deplete	ed Matrix	(F3)				
Depleted Below Dark Surface (A11)	Redox	Dark Sur	face (F6)				
Thick Dark Surface (A12)	Deplete	ed Dark S	Surface (F7)	³ Indicators of hydrophytic vegetation and		
Sandy Mucky Mineral (S1)	Redox	Depressi	ons (F8)		wetland hydrology must be present,		
5 cm Mucky Peat or Peat (S3)					unless disturbed or problematic.		
Restrictive Layer (if observed):							
Туре:					Hydric Soil Present? Yes No		
Depth (inches):							
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of one is requ	uired; check all that a	pply)			Secondary Indicators (minimum of two required		

Primary indicators (minimum of	one is required, d	check all that apply)	Secondary indicators (minimum of two required)
Surface Water (A1)		Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)		Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)		True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidized Rhizospheres on Living I	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Sc	bils (C6) Geomorphic Position (D2)
Iron Deposits (B5)		Thin Muck Surface (C7)	<pre> FAC-Neutral Test (D5)</pre>
Inundation Visible on Aeria	l Imagery (B7)	Gauge or Well Data (D9)	
Sparsely Vegetated Conca	ve Surface (B8)	Other (Explain in Remarks)	
Field Observations:			
Surface Water Present?	Yes No _	Depth (inches):	
Water Table Present?	Yes No _	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (strea	m gauge, monitor	ring well, aerial photos, previous inspec	tions), if available:
Bemerkei			
Remarks:			
Wetland hydrology	absent.		

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-F
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11E	SN27
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None
Slope (%): 0 Lat: 41.104718	Long: -83.580266	Datum: WGS 84
Soil Map Unit Name: PmA	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in Ro	emarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" p	resent? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects	, important features, etc.

Hydrophytic Vegetation Present?	Yes 🖌 No	b			
Hydric Soil Present?	Yes 🖌 No	ls the Sa	npled Area		
Wetland Hydrology Present?	Yes 🖌 No	within a V	Vetland? Yes	<u>~</u>	No
Remarks:					

PEM. ORAM score of 12. Disturbed by surrounding land use.

00.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2.				
3				Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
15 6		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 It I)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2.				OBL species 90 x 1 = 90
3				FACW species 5 $x_2 = 10$
۵				EAC species 5 $x_3 = 15$
4				
5				FACU species 0 $x 4 = 0$
5 ft r		= Total Cov	ver	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: <u>510</u>)	00		OBI	Column Totals: 100 (A) 115 (B)
	90			1 45
2. Erigeron philadelphicus	5		FACW	Prevalence Index = B/A = 1.15
3. Rumex crispus	5		FAC	Hydrophytic Vegetation Indicators:
4				✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
°				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
20 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30111)				
1				Hydrophytic
2				Vegetation
		= Total Cov	er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	heet.)			
Indrophytic vegetation procest				
Hydrophytic vegetation present.				

- - -

SOIL								Sampling Point:F
Profile Desc	cription: (Descr	ibe to the de	pth needed to docu	ment the	indicator	or confir	m the absence o	of indicators.)
Depth	Matri	x	Redo	x Featur	es			
(inches)	Color (moist)%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 4/1	95	10YR 5/6	5	<u> </u>	М	Silty Clay	
-								
							· ·	
-								
-								
1							2	
'Type: C=C	oncentration, D=I	Depletion, RN	I=Reduced Matrix, M	S=Maske	ed Sand Gra	ains.	Location:	PL=Pore Lining, M=Matrix.
Hydric Soli	indicators:						Indicators f	for Problematic Hydric Solls :
Histosol	(A1)		Sandy	Gleyed N	latrix (S4)		Coast P	Prairie Redox (A16)
HISTIC E	pipedon (A2)		Sandy	Redox (S	(56)		Dark St	
	ISUC (AS) on Sulfide (AA)		Suppe	u wautx (Mucky M	(30) lineral (E1)		Iron-wa	allow Dark Surface (TE12)
Stratified	d Lavers (A5)		Loamy		Aatrix (F2)		Other (F	Explain in Remarks)
2 cm Mi	uck (A10)			ed Matrix	(F3)			
Deplete	d Below Dark Su	face (A11)	Redox	Dark Sur	face (F6)			
Thick Da	ark Surface (A12))	Deplete	d Dark S	Surface (F7))	³ Indicators	of hydrophytic vegetation and
Sandy M	Aucky Mineral (S	1)	Redox	Depressi	ons (F8)		wetland	hydrology must be present,
5 cm Mu	ucky Peat or Peat	t (S3)					unless o	disturbed or problematic.
Restrictive	Layer (if observe	ed):						
Туре:							Undria Cail I	
Depth (in	ches):						Hydric Soli i	Present? res No
Remarks:								
Llydria	ooil procor	.+						
	son preser	π.						
HIDROLO	GT							
Wetland Hy	drology Indicate	ors:						
Primary Indi	cators (minimum	of one is requ	iired; check all that a	oply)			<u>Secondar</u>	y Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Lea	ves (B9)		💆 Surfa	ace Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	auna (B1	3)		Drain	nage Patterns (B10)
Saturati	on (A3)		True Aqua	atic Plant	s (B14)		Dry-8	Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide (Odor (C1)		Cray	fish Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized I	Rhizosph	eres on Liv	ing Roots	(C3) Satur	ration Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Reduc	ced Iron (C4	4)	Stunt	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Irc	on Reduc	tion in Tille	d Soils (C	6) Geor	norphic Position (D2)
Iron Dep	oosits (B5)		Thin Much	s Surface	: (C7)		🖌 FAC-	Neutral Test (D5)
Inundati	on Visible on Aer	ial Imagery (E	37) Gauge or	Well Dat	a (D9)			
Sparsel	y Vegetated Cond	cave Surface	(B8) Other (Ex	plain in R	(emarks)			
Field Obser	vations:							
Surface Wat	er Present?	Yes	No Depth (in	ches): _		_		
Water Table	Present?	Yes	No Depth (in	ches):		_		
Saturation P	resent?	Yes	No Depth (in	ches):		_ Wet	land Hydrology	Present? Yes 🖌 No

Remarks:

Wetland hydrology present.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

(includes capillary fringe)

Project/Site: AEP Fostoria to Lima		City/County: Findlay	//Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP			State: Ohio	Sampling Point: 1-G
Investigator(s): Beth Hollinden, Chris Davisson		Section, Township, R	ange: OH01 T2N R11E	SN27
Landform (hillslope, terrace, etc.): Depression Toes	lope	Local relie	f (concave, convex, none)	Concave
Slope (%); 2 Lat: 41.104596		Long: -83.580468	3	Datum: WGS 84
Soil Map Unit Name: PmA			NWI classifi	cation: N/A
Are climatic / hydrologic conditions on the site typical for	r this time of ve	ar? Yes 🖌 No	(If no, explain in F	Remarks.)
Are Vegetation V Soil V or Hydrology V	significantly	disturbed? Are	"Normal Circumstances"	present? Yes 🗸 No
Are Vegetation Soil or Hydrology	naturally_pro	blematic? (If r	needed explain any answe	ers in Remarks)
SUMMARY OF FINDINGS – Attach site ma	ap showing	sampling point	locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No		,	, , , , , , , , , , , , , , , , , , , ,
Hydric Soil Present? Yes	No	Is the Sample	d Area	
Wetland Hydrology Present? Yes 🖌	No	within a Wetla	and? Yes 🗸	No
Remarks:		I		
PEM. Escaping ditch line. ORAM	score of '	12.		
	Absolute	Dominant Indicator	Dominance Test work	(sheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	% Cover	Species? Status	Number of Dominant S That Are OBL, FACW,	Species or FAC: <u>1</u> (A)
2			Total Number of Domin	aant
3			Species Across All Stra	ata: <u>1</u> (B)
4			Percent of Dominant S	necies
5		· ·	- That Are OBL, FACW,	or FAC: <u>100</u> (A/B)
Sapling/Shrub Stratum (Plot size) 15 ft r	,	= Total Cover	Prevalence Index wor	rksheet:
1.)		Total % Cover of:	Multiply by:
2.			OBL species 100	x 1 = 100
3.			FACW species 0	x 2 = 0
4			FAC species 0	x 3 =
5			FACU species 0	× 4 = 0
the second se		= Total Cover	UPL species 0	x 5 = <u>0</u>
<u>Herb Stratum</u> (Plot size: <u>5111</u>) 1 Typha angustifolia	100	🖌 OBL	Column Totals: 100	(A) <u>100</u> (B)
2.		· ·	Prevalence Index	c = B/A = <u>1.00</u>
3			Hydrophytic Vegetati	on Indicators:
4			1 - Rapid Test for	Hydrophytic Vegetation
5			2 - Dominance Te	st is >50%
6		·	_ 3 - Prevalence Ind	ex is ≤3.0 ¹
7		·	4 - Morphological	Adaptations ¹ (Provide supporting
8		·	Problematic Hydro	phytic Vegetation ¹ (Explain)
9		·	-	
10			Indicators of hydric so	il and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100%	= Total Cover	be present, unless dist	urbed or problematic.
1			Hydronbytic	
2			Vegetation	V
		= Total Cover	Present? Ye	es No
Remarks: (Include photo numbers here or on a separation present.	ate sheet.)			

L

SOIL								Sampling Point: 1-6
Profile Desc	ription: (Descrit	be to the de	pth needed to docu	ment the	indicator	or confir	m the absence	of indicators.)
Depth	 Matrix	•	Red	ox Featur	es			,
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 4/1	85	10YR 5/6	10	С	М	Silty Clay	
0-20	10YR 4/1	85	10YR 6/3	5	<u> </u>	M	Silty Clay	
-								
-								
-								
-								
¹ Type: C=Ce	oncentration, D=D	epletion, RM	1=Reduced Matrix, N	IS=Maske	ed Sand G	ains.	² Location	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed N	Aatrix (S4)		Coast	Prairie Redox (A16)
Histic Ep	bipedon (A2)		Sandy	Redox (S	5)		Dark S	urface (S7)
Black Hi	stic (A3)		Strippe	ed Matrix	(S6)		Iron-Ma	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky N	lineral (F1)		Very S	hallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed N	Matrix (F2)		Other (Explain in Remarks)
2 cm Mu	ick (A10)		 Deplet 	ed Matrix	(F3)			
Depleted	d Below Dark Surf	ace (A11)	Redox	Dark Sur	face (F6)			
Thick Da	ark Surface (A12)		Deplet	ed Dark S	Surface (F7)	³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	Redox	Depressi	ons (F8)		wetland	hydrology must be present,	
5 cm Mu	icky Peat or Peat	(S3)					unless	disturbed or problematic.
Restrictive	Layer (if observe	d):						
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								
Hydric	soil presen	t						
HYDROLO	GY							
Wetland Hy	drology Indicator	rs:						
Primary India	cators (minimum o	of one is requ	lired; check all that a	pply)			<u>Seconda</u>	ry Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Lea	ives (B9)		Surf	ace Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drai	nage Patterns (B10)
🖌 🖌 Saturatio	on (A3)		True Aqu	atic Plant	s (B14)		Dry-	Season Water Table (C2)
Water M	larks (B1)		Hydroger	n Sulfide (Odor (C1)		Cray	rfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Li	ving Roots	s (C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Redu	ced Iron (C	4)	Stun	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent In	on Reduc	tion in Tille	ed Soils (C	6) 🖌 Geo	morphic Position (D2)
Iron Dep	oosits (B5)		Thin Muc	k Surface	e (C7)		FAC	-Neutral Test (D5)
Inundati	on Visible on Aeria	al Imagery (F	Gauge or	Well Dat	a (D9)			()
Sparsely	Vegetated Conc	ave Surface	(B8) Other (Ex	nlain in F	Pemarke)			
Operation	vegetated conte				(emarks)			
Surface Wat	er Present?	Yes	No 🗸 Depth (ir	nches).				
Water Table	Present?	Yes	No V Depth (ii	nchee)				
Saturation D	recent?	Voc V	No Depth (ii	nones)		— Mot		Prosent2 Vos V No
(includes cap	oillary fringe)						and Hydrology	
Describe Re	corded Data (strea	am gauge, m	nonitoring well, aerial	photos, p	previous in	spections)	, if available:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Han	icock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-G/H UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN27	
Landform (hillslope, terrace, etc.): Flat	Local relief (conc	ave, convex, none):	None	
Slope (%): 0 Lat: 41.104081	Long: -83.580339		Datum: WGS 8	34
Soil Map Unit Name: BpA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖍 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	nal Circumstances" p	oresent? Yes	✓ №
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	ls the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-G and Wetland 1-H.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 2 (B)
A.				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shruh Stratum (Plat size) 15 ft r		= Total Cov	er	Prevalence Index worksheet:
Saping/Shiub Stratum (Plot size)	10			
2				OBL species 0 $x = 0$
3				FACW species $0 \times 2 = 0$
4				FAC species 0 x 3 = 0
5.				FACU species 90 x 4 = 360
	10%	= Total Cov	er	UPL species 0 $x 5 = 0$
Herb Stratum (Plot size: 5 ft r)		rotar oor		Column Totals: 90 (A) 360 (B)
1. Cirsium arvense	50	~	FACU	
2. Festuca rubra	30	~	FACU	Prevalence Index = $B/A = 4.00$
3. Cornus florida	10		FACU	Hydrophytic Vegetation Indicators:
4. Pyrus calleryana	10			1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
o				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10	40.00/			¹ Indicators of hydric soil and wetland hydrology must
30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 rt)				
1				Hydrophytic
2				Vegetation Present2 Veg No
	= Total Cover			
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describ	e to the dep	oth needed to docun	nent the i	indicator	or confirm	m the absence of i	ndicators.)	
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ²	Texture	Remarks	
0-6	10YR 6/3	100					Silty Clay		
6-20	10YR 4/1	95	10YR 6/3	5	С	М	Silty Clay		
-									
							·		
							·		
							·		
-									
¹ Type: C=Ce	oncentration, D=De	pletion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL	-=Pore Lining, M=Mat	rix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric	Soils ³ :
Histosol	(A1)		Sandy G	Bleyed Ma	atrix (S4)		Coast Prair	rie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy F	Redox (S5	5)		Dark Surfa	ce (S7)	
Black Hi	stic (A3)		Stripped	Matrix (S	66)		Iron-Manga	anese Masses (F12)	
Hydroge	en Sulfide (A4)		Loamy N	Aucky Mir	neral (F1)		Very Shallo	ow Dark Surface (TF1	2)
Stratified	d Layers (A5)		Loamy (Gleyed Ma	atrix (F2)		Other (Exp	lain in Remarks)	
2 cm Mi	ICK (A1U) d Bolow Dark Surfa	co (A11)	Depleted	d Matrix (F3)				
Thick Da	ark Surface (A12)		Redox E	d Dark Sulla	urface (F7))	³ Indicators of h	vdrophytic vegetation	and
Sandy M	lucky Mineral (S1)		Redox D)epressio	ns (F8)	,	wetland hyd	drology must be prese	ent.
5 cm Mu	icky Peat or Peat (S3)			. ,		unless dist	urbed or problematic.	
Restrictive I	Layer (if observed):							
Туре:									
Depth (in	ches):						Hydric Soil Pre	sent? Yes	No
Remarks:									
	oil procont								
	son present	•							
HYDROLO	GY								
Wetland Hv	drology Indicators	:							
Primary India	cators (minimum of	one is reau	ired: check all that ap	olv)			Secondary Ir	ndicators (minimum of	two required)
Surface	Water (A1)		Water-Stai	ned Leav	es (B9)		Surface	Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	una (B13)		Drainage	e Patterns (B10)	
Saturatio	on (A3)		True Aqua	tic Plants	/ (B14)		Drv-Sea	son Water Table (C2)	1
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Cravfish	Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized R	hizosphe	res on Liv	ing Roots	(C3) Saturatio	on Visible on Aerial Im	nagery (C9)
Drift Dep	posits (B3)		Presence of	of Reduce	ed Iron (C4	4)	Stunted	or Stressed Plants (D	1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (Cf					6) Geomor	phic Position (D2)			
Iron Dep	oosits (B5)		Thin Muck	Surface ((C7)		FAC-Ne	utral Test (D5)	
Sparsely	/Vegetated Conca	ve Surface	(B8) Other (Exp	lain in Re	emarks)				
Field Obser	vations:								
Surface Wat	er Present?	Yes	No Depth (inc	ches):		_			
Water Table	Present?	Yes	No Depth (inc	ches):		_			
Saturation P	resent?	Yes	No Depth (ind	ches):		_ Wet	land Hydrology Pro	esent? Yes	No
(includes cap	oillary fringe)			botos	evieus iz-	(nections)	if available:		
Describe Re	corded Data (streat	n gauge, m	onitoring well, aerial p	notos, pr	evious ins	pections),	, il avaliable:		
Remarka									
Remarks.									
Wetland	l hydrology	absent	•						

Project/Site: AEP Fostoria to Lima	C	ity/County	Sampling Date:	2022-0	6-30		
Applicant/Owner: AEP				State: Ohio	Sampling Point:	1-H	
Investigator(s): Beth Hollinden, Chris Davisson	S	Section, To	wnship, Rar	nge: OH01 T2N R11E	SN27		
Landform (hillslope, terrace, etc.): Depression Toeslope			Local relief ((concave, convex, none)	Concave		
Slope (%): 2 Lat: 41.103935	L	.ong: -83	.58047		Datum: WGS 8	84	
Soil Map Unit Name: BpA		0		NWI classifi	- _{cation:} N/A		
Are climatic / hydrologic conditions on the site typical for this ti	ime of vea	r? Yes	No	(If no, explain in F	Remarks)		
Are Vegetation Soil or Hydrology sign	nificantly d	isturbed?	Are "	Normal Circumstances"	present? Yes	No	
Are Vegetation Soil or Hydrology nat	urally prob	lematic?	(If ne		ars in Remarks)		
SUMMARY OF FINDINGS – Attach site map sh	nowing	samplin	a point la	ocations, transects	s. important f	eatures.	etc.
Hydrophytic Vegetation Present? Yes V		p	3 P				
Hydric Soil Present? Yes <u>V</u> No		ls th	e Sampled	Area			
Wetland Hydrology Present? Yes <u>V</u> No		with	in a Wetlan	id? Yes 🗸	No	_	
Remarks:							
PEM. Located next to substation gro	unding	g syste	em. OR	AM score of 12	<u>)</u> .		
VEGETATION – Ose scientific names of plants.	Abaaluta	Deminant	Indicator	Deminence Testword	ka ba a é:		
Tree Stratum (Plot size:30 ft r)	Absolute <u>% Cover</u>	Species?	Status	Number of Dominant S	ksneet:		
1				That Are OBL, FACW,	or FAC: 1	(A)
2				Total Number of Domi	nont		
3				Species Across All Stra	ata: <u>1</u>	(B)
4				Percent of Dominant S	nacios		
5				That Are OBL, FACW,	or FAC: 100	(A/B)
Sanling/Shrub Stratum (Plot size: 15 ft r)	=	= Total Cov	/er	Prevalence Index wor	rksheet:		
1				Total % Cover of:	Multir	ly by:	
2				OBL species 100	$\frac{1}{x_{1}} = 10^{-10}$	0	
3.				FACW species 0	x 2 = 0		
4.				FAC species 0	x 3 = 0		
5				FACU species 0	x 4 = <u>0</u>		
	=	= Total Cov	ver	UPL species 0	x 5 =		
Herb Stratum (Plot size: 5 ft r) Typha angustifolia	100	~	OBL	Column Totals: 100	(A) <u>10</u>	0	(B)
2				Prevalence Index	x = B/A = 1.00		
3.				Hydrophytic Vegetati	on Indicators:		
4.				✓ 1 - Rapid Test for	Hydrophytic Vege	tation	
5.				🖌 🖌 2 - Dominance Te	st is >50%		
6				🖌 3 - Prevalence Ind	lex is ≤3.0 ¹		
7				4 - Morphological	Adaptations ¹ (Pro	vide suppo	orting
8				Droblemetic Hudre	s or on a separate	e sneet)	
9					phylic vegetation	(Explain)	·
10				¹ Indicators of hydric so	il and wetland by	drology mu	uet
Weady Vina Stratum (Plataiza: 30 ft r	100% =	= Total Cov	/er	be present, unless dist	urbed or problem	atic.	
1							\neg
2				Vegetation			
£,		= Total Cov	/er	Present? Ye	esNo_		
- Remarks: (Include photo numbers here or on a separate she	 eet.)			1			+
Hydrophytic vegetation present.	,						

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SOIL							Sampling Point:		
Profile Desc	ription: (Describe	to the de	pth needed to docu	ment the	indicator	or confirm	m the absence of indicators.)		
Depth	Matrix		Redo	ox Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks		
0 - 20	10YR 4/1	65	10YR 5/6	20	<u>C</u>	<u>M</u>	Silty Clay		
0-20	10YR 4/1	65	10YR 6/3	5	<u> </u>	<u>M</u>	Silty Clay		
0 - 20	10YR 4/1	65	10YR 6/1	10	<u>D</u>	M	Silty Clay		
-									
-									
				_	_				
¹ Type: C=Co	oncentration, D=Dep	pletion, RN	I=Reduced Matrix, M	S=Maske	ed Sand G	rains.	² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy	Gleyed N	latrix (S4)		Coast Prairie Redox (A16)		
Histic Ep	pipedon (A2)		Sandy	Redox (S	5)		Dark Surface (S7)		
Black Hi	stic (A3)		Strippe	d Matrix	(S6) Kasaral (E4)		Iron-Manganese Masses (F12)		
Hydroge	en Sumde (A4)		Loamy	Gleved M	Ineral (F1))	Very Shallow Dark Surface (TFT2)		
2 cm Mu	uck (A10)		✓ Deplete	ed Matrix	(F3)				
Depleted	d Below Dark Surfac	ce (A11)	Redox	Dark Sur	face (F6)				
Thick Da	ark Surface (A12)		Deplete	ed Dark S	Surface (F7	7)	³ Indicators of hydrophytic vegetation and		
Sandy M	lucky Mineral (S1)		Redox	Depressi	ons (F8)		wetland hydrology must be present,		
5 cm Mu	icky Peat or Peat (S	3)					unless disturbed or problematic.		
Type	Layer (if observed)								
Depth (in	chee).						Hydric Soil Present? Yes 🔽 No 🔤		
Bomarka:									
Hydric	soil present.								
IYDROLO	GY								
Wetland Hyd	drology Indicators	:							
Primary India	cators (minimum of	one is requ	ired; check all that a	pply)			Secondary Indicators (minimum of two requ	<u>uired)</u>	
Surface	Water (A1)		Water-Sta	ained Lea	ves (B9)		Surface Soil Cracks (B6)		
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drainage Patterns (B10)		
Saturation	on (A3)		True Aqua	atic Plant	s (B14)		Dry-Season Water Table (C2)		
Water M	larks (B1)		Hydrogen	Sulfide (Odor (C1)		Crayfish Burrows (C8)		
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Li	ving Roots	s (C3) Saturation Visible on Aerial Imagery (C	:9)	
Drift Dep	posits (B3)		Presence	of Reduc	ced Iron (C	(4)	Stunted or Stressed Plants (D1)		
Algal Ma	at or Crust (B4)		Recent Ire	on Reduc		ed Solls (C	(6) Geomorphic Position (D2)		
Iron Dep	on Visible on Acriel	Imagany /I					FAC-Neutral Test (D5)		
Inunuali	Vegetated Concav	nnagery (i	(B8) Other (Ev	vven Dat	a (D9) Semarke)				
Field Obser	vations:	e ounace		plainin	(cinarks)				
Surface Wat	er Present?	(es	No V Depth (ir	ches).					
Water Table	Present?	/es	No V Depth (ir	nches):		_			
Saturation P	resent?	/es	No <u>V</u> Depth (ir	nches):		Wet	tland Hydrology Present? Yes 🗹 No _		
(includes cap Describe Re	oillary fringe) corded Data (strean	n daude, m	nonitoring well, aerial	photos, r	previous in	spections)	, if available:		
		3				,			
Remarks:									
Wetland	l hydrology	preser	nt.						
	,								

US Army Corps of Engineers
Project/Site: AEP Fostoria to Lima		City/Coup	w Findlay	/Hancock Sampling Date: 2022-06-30			
Applicant/Ourper: AFP			Sampling Date. 2022 00 00				
Investigator(s): Beth Hollinden, Chris Davisson		Section T	ownship Ra	State: Sampling Point			
Landform (hillologo torresponder), Depression Toeslor		Section, 1					
Landform (hillslope, terrace, etc.): Depression Toeslop		0	Local relief	(concave, convex, none): Concave			
Slope (%): <u>Z</u> Lat: <u>41.104087</u>		Long: -8	3.381876	Datum: WGS 84			
Soil Map Unit Name: BrA				NWI classification: N/A			
Are climatic / hydrologic conditions on the site typical for th	is time of ye	ar? Yes_	No	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly	disturbed	? Are	'Normal Circumstances" present? Yes 🗾 No			
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(lf ne	eeded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map	showing	sampli	ng point l	ocations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes V Hydric Soil Present? Yes V Wetland Hydrology Present? Yes V Remarks: PEM. Located next to substation g	10 10 10 roundir	is i wit	the Sampled thin a Wetlan	Area nd? Yes <u>Ves</u> No <u>No</u> AM score of 14.			
VEGETATION – Use scientific names of plants	3.						
	Absolute	Dominar	nt Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species	? <u>Status</u>	Number of Dominant Species			
1				That Are OBL, FACW, or FAC: 2 (A)			
2				Total Number of Dominant			
3				Species Across All Strata: <u>2</u> (B)			
4				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: 100 (A/B)			
Sapling/Shrub Stratum (Plot size: 15 ft r		= Total C	over	Prevalence Index worksheet:			
1				Total % Cover of: Multiply by:			
2				$\frac{1}{OBL \text{ species}} \frac{100}{x \text{ 1} = 100}$			
3				FACW species 0 x 2 = 0			
Δ				FAC species 0 x 3 = 0			
5				FACIL species 0 $x = 0$			
		= Total C		UPL species 0 $x = 0$			
Herb Stratum (Plot size: 5 ft r)		- 10tai 0	0461	Column Totals: 100 (A) 100 (B)			
1. Schoenoplectus tabernaemontani	50	~	OBL				
2. Typha angustifolia	50	<u> </u>	OBL	Prevalence Index = B/A = 1.00			
3				Hydrophytic Vegetation Indicators:			
4				✓ 1 - Rapid Test for Hydrophytic Vegetation			
5				2 - Dominance Test is >50%			
6				3 - Prevalence Index is ≤3.0			
7				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
8				Problematic Hydrophytic Vegetation ¹ (Explain)			
J							
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	100%	= Total C	over	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1				Hydrophytic Vegetation			

= Total Cover

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation present.

Yes 🦯 No ____

Present?

SOIL							Sampling Point:
Profile Desc	ription: (Describe	e to the de	pth needed to docu	ument the	indicato	or or confir	m the absence of indicators.)
Depth	Matrix		Red	lox Featur	es		-
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Texture Remarks
0-4	10YR 4/1	95	10YR 5/6	5	<u> </u>	M	Silty Clay
4-20	10YR 4/1	55	10YR 6/1	_ 5	_ <u>D</u>	M	Silty Clay
4-20	10YR 4/1	55	10YR 5/6	40	C	M	Silty Clay
-							
¹ Type: C=C	oncentration, D=De	pletion, RM	I=Reduced Matrix, N	/IS=Maske	ed Sand C	Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed N	latrix (S4)	Coast Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy	Redox (S	5)		Dark Surface (S7)
Black Hi	stic (A3)		Strippe	ed Matrix	(S6)		Iron-Manganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	/ Mucky M	lineral (F	1)	Very Shallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed N	Aatrix (F2	:)	Other (Explain in Remarks)
2 cm Mu	ıck (A10)		Deplet	ed Matrix	(F3)		
Depleted	d Below Dark Surfa	ce (A11)	Redox	Dark Sur	face (F6)		
Thick Da	ark Surface (A12)		Deplet	ed Dark S	Surface (F	7)	Indicators of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox	Depressi	ons (F8)		wetland hydrology must be present,
5 cm Mu	icky Peat or Peat (S	53)					unless disturbed or problematic.
Restrictive I	Layer (if observed)):					
Type:							Hydric Soil Present? Ves V No
Depth (in	ches):						
Remarks:							
Hydric s	soil present.						
	•						
	CY.						
Wotland Hy	drology Indicators						
Primary India	cators (minimum of	one is requ	lired: check all that a	(vlage			Secondary Indicators (minimum of two required)
Surface	Motor (A1)		Water St				Surface Seil Cracks (P6)
	vvaler (AT)				ves (D9)		
			Aqualic r	auna (Di	3) - (D1 4)		Drainage Patterns (BT0)
Saturation	on (A3)		True Aqu	atic Plant	s (B14)		Dry-Season Water Table (C2)
Water M	larks (B1)		Hydroge	n Sulfide (Jdor (C1)		Crayfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on L	iving Roots	s (C3) Saturation Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	e of Reduc	ced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent I	ron Reduc	tion in Til	led Soils (C	C6) Ceomorphic Position (D2)
Iron Dep	oosits (B5)		Thin Muc	k Surface	(C7)		FAC-Neutral Test (D5)
Inundati	on Visible on Aerial	Imagery (I	B7) Gauge o	r Well Dat	a (D9)		
Sparsely	Vegetated Concav	/e Surface	(B8) Other (E:	xplain in R	(emarks)		
Field Obser	vations:						
Surface Wat	er Present?	Yes	No Depth (i	nches):			
Water Table	Present?	Yes	No Depth (i	nches):			
Saturation P (includes cap	resent? pillary fringe)	Yes	No Depth (i	nches):		Wet	tland Hydrology Present? Yes <u>V</u> No
Describe Re	corded Data (stream	n gauge, n	nonitoring well, aeria	l photos, p	revious i	nspections)), if available:

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hand	cock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-I UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN27	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conca	ave, convex, none):	Convex	
Slope (%): 2 Lat: 41.104089	Long: -83.581918		Datum: WGS 8	34
Soil Map Unit Name: BrA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	oresent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed,	explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Upland point for Wetland 1-I.

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
5.				Percent of Dominant Species
		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1. Elaeagnus umbellata	10	<u> </u>		Total % Cover of: Multiply by:
2.				OBL species x 1 =
3.				FACW species $0 \qquad x = 0$
4				FAC species 0 x 3 = 0
5				EACU species 100 $x = 400$
	10%	- Total Car		$\frac{1}{100} \text{ species } \frac{1}{0} \text{ species } \frac{1}{$
Herb Stratum (Plot size: 30 ft r	1070		er	Column Totals: 100 (A) 400 (B)
1 Festuca rubra	30	~	FACU	
2. Melilotus officinalis	30	~	FACU	Prevalence Index = $B/A = 4.00$
3. Cirsium arvense	20	~	FACU	Hydrophytic Vegetation Indicators:
4. Trifolium pratense	20	~	FACU	1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6				3 - Prevalence Index is $≤3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	100 %	= Total Cov	er	be present, unless disturbed or problematic.
1				Hades should
1				Hydrophytic Vegetation
۷				Present? Yes No
Pomarka: (Include photo numbers have as an a concrete a	hoot)		ver	
Remarks. (include proto numbers here of on a separate s	sneet.)			
Hydrophytic vegetation absent.				

Profile Description: (Describe to the de	pth needed to docur	nent the	indicator	or confirn	m the absence of indicators.)
Depth Matrix	Redo	x Feature	s		
(inches) Color (moist) %	Color (moist)	%	Type ¹	_Loc ²	Remarks
<u>0-6</u> <u>10YR 4/2</u> <u>100</u>					Silty Clay
<u>6⁻20</u> <u>10YR 4/2</u> <u>95</u>	10YR 5/6	5	С	М	Silty Clay
-					
					· ·
					·
					· ·
					· · · · · · · · · · _ · _ · _ · _ · _ · _ · _ · _ · _ · · _ · · _ · · _ · · _ · · _ · · _ · · _ ·
¹ Type: C=Concentration, D=Depletion, RM	1=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:					Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy C	Gleyed Ma	atrix (S4)		Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy F	Redox (S5	5) 50)		Dark Surface (S7)
Black Histic (A3)	Stripped	d Matrix (\$ Mucky Mi	56) porol (E1)		Iron-Manganese Masses (F12)
Stratified Lavers (A5)	Loamy (Gleved M	atrix (F2)		Other (Explain in Remarks)
2 cm Muck (A10)	✓ Deplete	d Matrix (F3)		
Depleted Below Dark Surface (A11)	Redox [Dark Surfa	ace (F6)		
Thick Dark Surface (A12)	Deplete	d Dark Su	urface (F7))	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox [Depressio	ons (F8)		wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)					unless disturbed or problematic.
Type					
Depth (inches):					Hydric Soil Present? Yes 🖌 No
Bemarke:					
Hydric soil present.					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one is requ	ired; check all that ap	(ylqc			Secondary Indicators (minimum of two required
Surface Water (A1)	Water-Sta	ined Leav	ves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fa	auna (B13	3)		Drainage Patterns (B10)
Saturation (A3)	True Aqua	tic Plants	(B14)		Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized F	Rhizosphe	eres on Liv	ing Roots	(C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence	of Reduce	ed Iron (C4	4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iro	n Reduct	ion in Tille	d Soils (C6	6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck	Surface	(C7)		FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery ((DR) Gauge or (Well Data	(D9)		
Sparsely vegetated Concave Surface	(B8) Other (Exp	Diain in Re	emarks)		
Field Observations:	No 🖌 Donth (in	choo);			
Surface Water Present? Yes	No Depth (inc	cnes):		-	
Seturation Present? Yes	No Depth (in	ches):		— Woti	land Hydrology Present? Yes No Y
(includes capillary fringe)		cnes):			land Hydrology Present? Tes No
Describe Recorded Data (stream gauge, m	nonitoring well, aerial p	photos, pr	revious ins	pections),	, if available:
Remarks:					
Wetland hydrology absen	t.				

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Ohio	Sampling Point: <u>1-J</u>
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R1	1E SN28
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, nor	ne): <u>Convex</u>
Slope (%): 1 Lat: 41.099172	Long: -83.601105	Datum: WGS 84
Soil Map Unit Name: BpA	NWI class	sification: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain i	n Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstance	s" present? Yes 🗹 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transed	cts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland? Yes No
Remarks:		

PEM. ORAM score of 30.

00 (I	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				
5.				Percent of Dominant Species
		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species 20 x 1 = 20
3.				FACW species <u>70</u> x 2 = <u>140</u>
4.				FAC species _10 x 3 = _30
5.				FACU species 0 x 4 = 0
		= Total Cov	/er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100 (A) 190 (B)
1. Lysimachia nummularia	40	<u> </u>	FACW	
2. Carex vulpinoidea	30	<u> </u>	FACW	Prevalence Index = B/A = <u>1.90</u>
3. Scirpus cyperinus	20	<u> </u>	OBL	Hydrophytic Vegetation Indicators:
4. Rumex crispus	10		FAC	✓ 1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				\checkmark 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10.				
	100%	= Total Cov	/er	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		10101 001		be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		= Total Cov	/er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	heet.)			
Hydrophytic vegetation present.				

Depth	Matrix		Red	ox Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹		Texture Remarks	
	10YR 5/1	95	10YR 5/6	_ <u>5</u>	<u>C</u>	<u>M</u>	Silty Clay	
4 - 20	10YR 5/1	75	10YR 5/6	_ 25	<u> </u>	<u>M</u>	Silty Clay	
							· ·	
-								
-							· ·	
¹ Type: C=C	oncentration, D=D	epletion, RM	/I=Reduced Matrix, M	S=Maske	d Sand G	rains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:		·				Indicators for Problematic Hydric Soils ³ :	
Histoso	(A1)		Sandy	Gleyed M	latrix (S4)		Coast Prairie Redox (A16)	
Histic E	pipedon (A2)		Sandy	Redox (S	5)		Dark Surface (S7)	
Black H	istic (A3)		Strippe	d Matrix (S6)		Iron-Manganese Masses (F12)	
Hydroge	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)	Very Shallow Dark Surface (TF12)	
Stratifie	d Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other (Explain in Remarks)	
2 cm Mi	uck (A10) d Balani Dark Curf		Peplete	ed Matrix	(F3)			
Depiete	a Below Dark Sun	ace (ATT)	Redox	Dark Sun	ace (F6)	7)	³ Indicators of hydrophytic vogotation and	
Thick D	ark Surface (ATZ)		Depieto	Depressi	unace (F)	wetland bydrology must be present	
5 cm Mi	ucky Peat or Peat ((\$3)		Depressi	0115 (1-0)		unless disturbed or problematic	
Restrictive	Layer (if observe	d):						
Type:	2 .							
Depth (in	ches):						Hydric Soil Present? Yes No _	
Remarks:							·	
Hydric	soil present	t.						
IYDROLO	GY							
Wetland Hy	drology Indicator	s:						
Primary Indi	<u>cators (minimum o</u>	f one is req	uired; check all that a	pply)			Secondary Indicators (minimum of two re-	<u>quired)</u>
Surface	Water (A1)		🖌 Water-Sta	ained Lea	ves (B9)		Surface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drainage Patterns (B10)	
Saturati	on (A3)		True Aqu	atic Plants	s (B14)		Dry-Season Water Table (C2)	
Water M	/arks (B1)		Hydroger	Sulfide C	Odor (C1)		Crayfish Burrows (C8)	
Sedime	nt Deposits (B2)		Oxidized	Rhizosph	eres on Li	ving Roots	(C3) Saturation Visible on Aerial Imagery	(C9)
Drift De	posits (B3)		Presence	of Reduc	ed Iron (C	(4)	Stunted or Stressed Plants (D1)	
Algal M	at or Crust (B4)		Recent In	on Reduc	tion in Till	ed Soils (C	6) Geomorphic Position (D2)	
Iron De	posits (B5)		Thin Muc	k Surface	(C7)	,	✓ FAC-Neutral Test (D5)	

Inundation Visible on A	erial Imagery (B	B7)	Gauge or Well Da	ata (D9)			
Sparsely Vegetated Co	ncave Surface	(B8)	Other (Explain in	Remarks)			
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes	No _	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes	No _	_ Depth (inches):		Wetland Hydrology Present?	Yes 🖌 No	۰_
Describe Recorded Data (st	ream gauge, m	nonitoring	well, aerial photos,	previous inspec	tions), if available:		
Remarks:							
Wetland hydrolog	gy preser	nt.					

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Han	cock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-J/K/L UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN28	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conc	ave, convex, none):	Convex	
Slope (%): 2 Lat: 41.098971	Long: -83.601403		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	present? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locat	ions, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present?	Yes	No			
Hydric Soil Present?	Yes	No	Is the Sampled Area		
Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-J, Wetland 1-K, and Wetland 1-L.

20 (t	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				TAIN A COLOR
3				I otal Number of Dominant Species Across All Strata: 3 (B)
۰				
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Carling/Chrute Stratum (Distaine) 15 ft r		= Total Cov	er	Brovalance Index worksheet:
Sapling/Shrub Stratum (Plot size:)				
1				I otal % Cover of: Multiply by:
2				OBL species 0 $x_1 = 0$
3				FACW species $0 \times 2 = 0$
4				FAC species 0 x 3 = 0
5.				FACU species 100 $x 4 = 400$
		= Total Cov	er	UPL species 0 $x 5 = 0$
Herb Stratum (Plot size: 5 ft r)		- 10(a) 000	01	Column Totals: 100 (A) 400 (B)
1 Festuca rubra	40	~	FACU	
2. Trifolium repens	40	~	FACU	Prevalence Index = $B/A = 4.00$
3. Plantago lanceolata	20	~	FACU	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
ĥ				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
0				data in Remarks or on a separate sheet)
o				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1				Hydrophytic
2				Vegetation
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

Brofile Deer	rintion: (Decoribo	to the de	ath pooded to deau	mont the	indicator	or confi	m the abconce of	findicators)
Profile Desc	inption: (Describe	to the de	oth needed to docu		e indicator	or contin	m the absence o	or indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>x Featur</u> %	Type ¹	1 oc^2	- Texture	Remarks
0 - 20	10VP 6/3	95	10VR 5/6	5		<u></u>	Silty Clay	Remarks
	1011 0/5		1011 3/0					
-								
-				_				
-								
				_				
¹ Type: C=Co	oncentration. D=Der	letion. RM	Reduced Matrix. M	S=Mask	ed Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix,
Hydric Soil	Indicators:	ionon, i ui	n nou ob a matrix, m	<u>o maon</u>		unio.	Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleved N	Aatrix (S4)		Coast P	rairie Redox (A16)
Histic Er	pipedon (A2)		Sandy	Redox (S	S5)		Dark Su	Inface (S7)
Black Hi	stic (A3)		Strippe	d Matrix	(S6)		Iron-Ma	nganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky M	(F1)		Very Sh	allow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed I	Matrix (F2)		Other (E	Explain in Remarks)
2 cm Mu	ıck (A10)		Deplete	ed Matrix	: (F3)			
Depleted	d Below Dark Surfac	e (A11)	Redox	Dark Su	rface (F6)			
Thick Da	ark Surface (A12)		Deplete	ed Dark S	Surface (F7)	³ Indicators of	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	•	Redox	Depress	ions (F8)		wetland	hydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)					unless c	listurbed or problematic.
Restrictive	Layer (if observed)							
Type:							Hydric Soil F	Present? Yes No
Depth (inc	ches):						injune com i	
Remarks:								
Hydric	soil absont							
i iyunc s	son absent.							
	CY.							
HIDROLO	Gi							
Wetland Hy	drology Indicators:							
Primary Indic	cators (minimum of o	one is requ	ired; check all that a	pply)			<u>Secondar</u>	y Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Lea	aves (B9)		Surfa	ce Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B1	13)		Drain	age Patterns (B10)
Saturatio	on (A3)		True Aqua	atic Plant	ts (B14)		Dry-S	eason Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide	Odor (C1)		Crayf	ish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	neres on Liv	ing Roots	s (C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	of Redu	ced Iron (C	4)	Stunt	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ire	on Reduc	ction in Tille	d Soils (0	C6) Geon	norphic Position (D2)
Iron Dep	oosits (B5)		Thin Mucl	k Surface	e (C7)		FAC-	Neutral Test (D5)
Inundati	on Visible on Aerial	Imagery (E	37) Gauge or	Well Dat	ta (D9)			
Sparsely	Vegetated Concav	e Surface	(B8) Other (Ex	plain in F	Remarks)			
Field Obser	vations:							
Surface Wat	er Present?	es	No _ Depth (in	iches):				

Yes _____ No ____ Depth (inches): _____

Yes _____ No ____ Depth (inches): ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Wetland hydrology absent.

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

Wetland Hydrology Present? Yes ____ No ___

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Han	cock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-K
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN28	
Landform (hillslope, terrace, etc.): Depression	Local relief (conc	ave, convex, none):	Concave	
Slope (%): 2 Lat: 41.099027	Long: -83.601353		Datum: WGS 8	34
Soil Map Unit Name: BpA		NWI classific	ation: PEM1C	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	oresent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed,	explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locat	ions, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area	
Wetland Hydrology Present?	Yes No	within a Wetland? Yes V No	
Remarks:			

PEM. ORAM score of 46.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Demission
3.				Species Across All Strata: 2 (B)
A.				
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 100 (A/B)
Continue/Christian (Distring) 15 ft r		= Total Cov	/er	Brovalanca Index workshoot:
Sapling/Shrub Stratum (Plot size:)				
1	·			
2				OBL species 100 $x_1 = 100$
3				FACW species <u>10</u> x 2 = <u>20</u>
4				FAC species 0 x 3 = 0
5				FACU species 0 x 4 = 0
		= Total Cov	/er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)		10101 001		Column Totals: 110 (A) 120 (B)
_{1.} Typha angustifolia	100	~	OBL	
2.				Prevalence Index = B/A = 1.09
3.				Hydrophytic Vegetation Indicators:
4.				✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9	·			Problematic Hydrophytic Vegetation ¹ (Explain)
10	·			
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100 /	= Total Cov	/er	be present, unless disturbed or problematic.
1 Vitis riparia	10	~	FACW	Ludronhutio
2				Vegetation
£,,	10%	= Total Cov	/er	Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)			
	/			
Hydrophytic vegetation present.				

SOIL								Sampling Point: 1-K
Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confir	m the absence o	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 5/2	90	10YR 5/6	10	С	М	Silty Clay	
-								
				·				
-								
-								
	oncentration D=Der	letion RM	-Reduced Matrix M	 S=Maske		aine	² Location:	PI = Pore Liping M=Matrix
Hydric Soil	Indicators:			5-IVIASKE	u Sanu Gr	anis.	Indicators f	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Sloved M	atrix (S4)		Coast F	Prairie Redox (A16)
Histic Er	vipedon (A2)		Sandy F	Redox (S	5)		Dark Si	Inface (S7)
Black Hi	stic (A3)		Stripped	d Matrix (S6)		Iron-Ma	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy I	Mucky M	ineral (F1)		Very Sh	nallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy (Gleyed N	latrix (F2)		Other (I	Explain in Remarks)
2 cm Mu	ıck (A10)		Deplete	d Matrix	(F3)			
Depleted	d Below Dark Surfac	e (A11)	Redox [Dark Surf	ace (F6)		2	
Thick Da	ark Surface (A12)		Deplete	d Dark S	urface (F7)		Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	2)	Redox I	Depressio	ons (F8)		wetland	hydrology must be present,
5 cm wu	aver (if observed)	3)					uniess	disturbed of problematic.
Type	Layer (il observed)							
Dopth (in)	ab a a b						Hydric Soil I	Present? Yes 🖌 No
Depth (Inc	cnes):							
Remarks:								
Hvdric s	soil present.							
,								
HYDROLO	GY							
Wetland Hvg	drology Indicators:							
Primary India	cators (minimum of c	ne is requ	ired: check all that an	vla			Secondar	y Indicators (minimum of two required)
	Water (A1)	ne is requ	Water-Sta				<u>Surfa</u>	y indicators (minimum or two required)
High Wa	water (AT)			una (B1	ves (D9) 3)		Ourie	age Patterns (B10)
	$(\Delta 3)$			tic Plante) (B14)			Season Water Table (C2)
Water M	larks (B1)		Hvdrogen	Sulfide (dor(C1)		Dry-c	fish Burrows (C8)
Sedimer	at Deposite (B2)			Chizoenh	ares on Liv	ing Poots	(C3) V Satur	ration Visible on Aerial Imagery (CQ)
Drift Der	noeite (B3)		Oxidized I	of Reduc	eres on Liv	1) 1)	Stunt	ted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	tion in Tille	r) d Soils (C	(6) V Geor	morphic Position (D2)
Iron Den	(B5)		Thin Muck	Surface	(C7)	0013 (0		Neutral Test (D5)
	on Visible on Aerial	magery (F	(7) Gauge or	Well Data	(O) a (D9)		<u> </u>	
Sparsely	Vegetated Concav	e Surface ((B8) Other (Exc	plain in R	emarks)			
Field Obser	vations:							
Surface Wat	er Present? V	es 🗸	No Depth (in	ches) 2				
Water Table		· ·	No Depth (in	chee). 0		-		
Soturation D		····	No Depth (in	ches). 0		-		Brosont2 Vos V No
(includes car	pillary fringe)	es		cries): U			uanu nyurology	Fresent? Tes NO
Describe Red	corded Data (stream	gauge, m	onitoring well, aerial	photos, p	revious ins	pections)	, if available:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-L
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11E	SN28
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave
Slope (%): 1 Lat: 41.098919	Long: -83.601686	Datum: WGS 84
Soil Map Unit Name: PmA	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	oresent? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS Attack site man showing		increase to be for a transferred of the

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	o Is the Sampled Area o within a Wetland?	Yes No
Remarks:			

PEM. ORAM score of 32.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 5 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>5</u> (B)
4				Demonst of Deminent Operator
5				That Are OBL_FACW or FAC: 100 (A/B)
		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species <u>70</u> x 1 = <u>70</u>
3				FACW species <u>40</u> x 2 = <u>80</u>
4				FAC species <u>0</u> x 3 = <u>0</u>
5.				FACU species x 4 =
		= Total Cov	/er	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 110 (A) 150 (B)
_{1.} Carex lurida		<u> </u>	OBL	
2. Carex vulpinoidea	20	<u> </u>	FACW	Prevalence Index = B/A = <u>1.36</u>
3. Scirpus atrovirens	20	<u> </u>	OBL	Hydrophytic Vegetation Indicators:
4. Scirpus cyperinus	20	~	OBL	✓ 1 - Rapid Test for Hydrophytic Vegetation
5. Carex frankii	10		OBL	✓ 2 - Dominance Test is >50%
6. Lysimachia nummularia	10		FACW	✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Q				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
10.	100%	- Total Cox		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r		- 10(a) 000		be present, unless disturbed or problematic.
1. Vitis riparia	10	~	FACW	Hydrophytic
2.				Vegetation
	10%	= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)			1
· · · · · · · · · · · · · · · · · · ·	,			
Hydrophytic vegetation present.				

OOL						
Profile Description: (Describe to the dept	th needed to docu	ment the	indicator	or confir	m the absence of	indicators.)
Depth Matrix	Redo	ox Feature	es			
(inches) Color (moist) %	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
<u>0-20 10YR 4/1 90</u>	10YR 5/6	10	<u>C</u>	М	Silty Clay	
-						
· · · ·						
·						
-						
¹ Type: C=Concentration D=Depletion PM=	Peduced Matrix M	S-Maaka	d Sand Cr		² l contion: 1	PL-Para Liping M-Matrix
Hydric Soil Indicators:	Reduced Matrix, M	5=maske	a Sana Gr	ains.		PL=Pore Lining, M=Matrix.
Histosol (A1)	Sandy	Cloved M	atrix (SA)		Coast Pr	airia Baday (A16)
Histic Enipedon (A2)	Sandy	Redox (St	ainx (34) 5)		Dark Sur	face (S7)
Black Histic (A3)	Strippe	d Matrix (S6)		Iron-Man	ganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy	Mucky Mi	ineral (F1)		Very Sha	llow Dark Surface (TF12)
Stratified Layers (A5)	Loamy	Gleyed M	latrix (F2)		Other (Ex	xplain in Remarks)
2 cm Muck (A10)	🖌 Deplete	ed Matrix ((F3)			
Depleted Below Dark Surface (A11)	Redox	Dark Surfa	ace (F6)		2	
Thick Dark Surface (A12)	Deplete	ed Dark Si	urface (F7))	³ Indicators of	f hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox	Depressio	ons (F8)		wetland h	hydrology must be present,
5 cm Mucky Peat or Peat (S3)						sturbed or problematic.
Restrictive Layer (II observed).						
Type:					Hydric Soil Pr	resent? Yes No
Depth (inches):					-	
Remarks:						
Hydric soil present.						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one is requir	ed check all that a	(vlaa			Secondary	Indicators (minimum of two required)
Surface Water (A1)	Water-Sta		(BQ)		<u>Surfac</u>	e Soil Cracks (B6)
High Water Table (A2)		aineu Leav	Nes (D9)		Ourlac	and Patterns (B10)
Saturation (A3)		atic Plants) (B14)		Draina	ason Water Table (C2)
Water Marks (B1)	Hvdrogen		dor(C1)		Dry-0e	sh Burrows (C8)
Sediment Deposits (B2)		Rhizosnha	ares on Liv	ina Roots	(C3) Satura	tion Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence	of Reduce	ed Iron (C	1)	Stunte	d or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent In	on Reduct		r, d Soile (C	(6) V Geom	orphic Position (D2)
Iron Denosits (B5)	Thin Mucl	k Surface	(C7)			leutral Test (D5)
Inundation Visible on Aerial Imageny (87		Well Data	(D9)			
Sparsely Vegetated Concave Surface (F	38) Other (Ev	nlain in P	emarke)			
Eigld Observations:						

Field Observations:							
Surface Water Present?	Yes	. No 🦯	Depth (inches):				
Water Table Present?	Yes	No	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes 🖌	No	Depth (inches): 0		Wetland Hydrology Present?	Yes 🗸	No
Describe Recorded Data (stre	am gauge, n	nonitoring v	vell, aerial photos, previous in	spec	ctions), if available:		
Remarks:							
Wetland hydrology	/ presei	nt.					

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Ohio	Sampling Point: <u>1-M</u>
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R	11E SN28
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, no	ne): Concave
Slope (%): 1 Lat: 41.098837	Long: -83.602148	Datum: WGS 84
Soil Map Unit Name: PmA	NWI clas	sification: R4SBC
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstance	es" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any an	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transe	cts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	ls the Sampled Area within a Wetland?	Yes No
Remarks:			

PEM. ORAM score of 29.

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				(/
5.				Percent of Dominant Species
		= Total Co	/er	That Ale OBL, FACW, OF FAC. 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		10101-00		Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2.				OBL species <u>30</u> x 1 = <u>30</u>
3.				FACW species 60 x 2 = 120
۵				FAC species 20 x 3 = 60
5				FACU species 0 $x 4 = 0$
		- Total Co		$ P _{\text{species}} = 0 \qquad x_5 = 0$
Herb Stratum (Plot size: 5 ft r)		- 10tai 00		Column Totals: 110 (A) 210 (B)
1. Lysimachia nummularia	40	~	FACW	
2. Scirpus atrovirens	20	 ✓ 	OBL	Prevalence Index = B/A = 1.91
3. Carex vulpinoidea	10		FACW	Hydrophytic Vegetation Indicators:
4. Populus deltoides	10		FAC	✓ 1 - Rapid Test for Hydrophytic Vegetation
5. Rumex crispus	10		FAC	✓ 2 - Dominance Test is >50%
6. Scirpus cyperinus	10		OBL	\checkmark 3 - Prevalence Index is ≤3.0 ¹
7	_			4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
10.	100%	= Total Co		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		rotar oo		be present, unless disturbed or problematic.
1. Vitis riparia	10	 ✓ 	FACW	Hydrophytic
2				Vegetation
				- /
	10%	= Total Co	ver	Present? Yes No No
Remarks: (Include photo numbers here or on a separate	10% sheet.)	= Total Co	ver	Present? Yes No

~~~

SOIL								Sampling Point:
Profile Desc	cription: (Describe	e to the de	pth needed to docu	ment the	indicator	or confir	m the absence of	indicators.)
Depth	Matrix		Red	ox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 4/1	90	10YR 5/6	10	С	М	Silty Clav	
-								
-								
				_				
-								
¹ Type: C=C	oncentration, D=De	pletion, RM	/I=Reduced Matrix, M	IS=Maske	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:		· · ·				Indicators fo	r Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		Coast Pra	airie Redox (A16)
Histic E	pipedon (A2)		Sandy	Redox (S	5)		Dark Sur	face (S7)
Black H	istic (A3)		Strippe	d Matrix (S6)		Iron-Man	ganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mi	ineral (F1)		Very Sha	llow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy	Gleyed M	latrix (F2)		Other (Ex	plain in Remarks)
2 cm Mi	uck (A10)		Deplete	ed Matrix	(F3)			
Deplete	d Below Dark Surfa	ce (A11)	Redox	Dark Surf	ace (F6)		2	
Thick D	ark Surface (A12)		Deplete	ed Dark S	urface (F7)	Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)					wetland h	wetland hydrology must be present,		
5 cm IVII	LICKY Peat or Peat (53)						sturbed or problematic.
Restrictive	Layer (II observed).						
Type:							Hydric Soil Pr	esent? Yes 🖌 No
Depin (in	cnes):							
Remarks:								
Hydric	soil present	•						
,	•							
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one is requ	uired; check all that a	pply)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		 Water-Sta 	ained Leav	ves (B9)		Surfac	e Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B13	3)		Draina	ge Patterns (B10)
Saturati	on (A3)		True Aqu	atic Plants	s (B14)		Drv-Se	ason Water Table (C2)
Water M	larks (B1)		Hvdrogen	Sulfide C	dor (C1)		Cravfis	sh Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized	Rhizosphe	eres on Liv	vina Roots	(C3) Satura	tion Visible on Aerial Imagery (C9)
Drift De	nosits (B3)		Presence	of Reduc	ed Iron (C	4)	Stunter	d or Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent In	on Reduct	tion in Tille	d Soils (C	(6) V Geom	archic Position (D2)
/ tigur Mit	accirc(B5)		Thin Muc	k Surface	(07)			leutral Test (D5)
Inundati	ion Visible on Aerial	Imagery (B7) Gauge or	Well Data			<u> </u>	
Sparsel	v Vegetated Conce	ve Surface	(B8) Other (Ev	nlain in R	emarks)			
Eield Obean	vatione.	vo ounace			enarkaj			
Surface Met	or Procent?	Vac		achoc):				
Surface wat		Tes	No Depth (Ir	iches):				

 Yes
 No
 V
 Depth (inches):

 Yes
 No
 V
 Depth (inches):

 Water Table Present? Wetland Hydrology Present? Yes ____ No _ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Han	loock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-M UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN28	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (cond	ave, convex, none):	Convex	
Slope (%): 2 Lat: 41.098758	Long: -83.602157		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	nal Circumstances" p	oresent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Upland point for Wetland 1-M.

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shruh Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
l				
2				
3				FACW species 0 $x 2 = 0$
4				FAC species 0 x 3 = 0
5				FACU species 100 x 4 = 400
- 4		= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100 (A) 400 (B)
1. Festuca rubra	40	<u> </u>	FACU	
2. Trifolium repens	40	<u> </u>	FACU	Prevalence Index = B/A = 4.00
3. Plantago lanceolata	20	~	FACU	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
<i>I</i>				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
20 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 50 TTT))				
1	·			Hydrophytic
2				Vegetation
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

	Matrix		Redo	x Feature	6			-
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 4/1 9	95 10	YR 5/6	5	<u> </u>	<u>M</u>	Silty Clay	<u>/</u>
-								
<u> </u>								
-								
-								
¹ Type: C=Co	ncentration D=Depleti	ion RM=Re	duced Matrix M	 S=Masked	Sand Gr	ains	² Locatio	on: PI =Pore Lining M=Matrix
Hydric Soil	ndicators:		aacoa maan, m	e maenee	ound on		Indicator	rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy (Gleyed Ma	trix (S4)		Coas	st Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy F	Redox (S5)		Dark	Surface (S7)
Black Hi	stic (A3)		Stripped	d Matrix (S	6)		Iron-	Manganese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy	Mucky Mir	eral (F1)		Very	Shallow Dark Surface (TF12)
Stratified	Layers (A5)		Loamy	Gleyed Ma	atrix (F2)		Othe	r (Explain in Remarks)
2 cm Mu	ick (A10) I Bolow Dork Surface (A 1 1)	Deplete	d Matrix (I	-3) co (E6)			
Depieted	ark Surface (A12)	ATT)	Redux i	d Dark Suna	rface (FO)		³ Indicato	rs of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox I	Depressio	nace (i 7) ns (F8)		wetla	nd hydrology must be present.
5 cm Mu	cky Peat or Peat (S3)		_		()		unles	ss disturbed or problematic.
Restrictive I	ayer (if observed):							
								,
Туре:			-					
Type: Depth (ind	ches):		_				Hydric So	vil Present? Yes No
Type: Depth (ind Remarks:	ches):		-				Hydric So	il Present? Yes No
Type: Depth (ind Remarks:	ches):		-				Hydric So	il Present? Yes No
Type: Depth (ind Remarks: Hydric s	soil present.		-				Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ind Remarks: Hydric s	soil present.		-				Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ind Remarks: Hydric s	soil present.		-				Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ind Remarks: Hydric s	soil present.		-				Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ind Remarks: Hydric s	soil present. GY		-				Hydric So	il Present? Yes <u>V</u> No
Type: Depth (inc Remarks: Hydric s Hydric s HydroLO Wetland Hyd	GY		-				Hydric So	il Present? Yes <u>V</u> No
Type: Depth (ind Remarks: Hydric s Hydric s HydroLO Wetland Hyd Primary Indic	soil present. GY drology Indicators:	is required;	check all that an	oply)			Hydric So	dary Indicators (minimum of two required
Type: Depth (ind Remarks: Hydric s Hydric s	ches): soil present. GY trology Indicators: cators (minimum of one Water (A1)	is required:	 check all that ap Water-Sta	oply) ined Leave	es (B9)		Hydric So	dary Indicators (minimum of two required
Type: Depth (ind Remarks: Hydric s Hydric s Hydrac s Hydrac s Primary Indic Surface High Wa	GY GY GY GY GY GY GY GY Mater (A1) ter Table (A2) (A2)	is required;	<u>check all that ar</u> Water-Sta Aquatic Fa	oply) ined Leav	es (B9)		Hydric So Secon Su Su	dary Indicators (minimum of two required urface Soil Cracks (B6) rainage Patterns (B10)
Type: Depth (ind Remarks: Hydric s Hydric s Hydric s Hydric s TypROLO Wetland Hyd Primary India Surface High Wa Saturatio	GY GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) on (A3)	is required;	<u>check all that ap</u> Water-Sta Aquatic Fa True Aqua	oply) ined Leave auna (B13) atic Plants	es (B9) (B14)		Hydric So Secon Su Dr Dr	dary Indicators (minimum of two required urface Soil Cracks (B6) rainage Patterns (B10) y-Season Water Table (C2)
Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Hydric s Uter s Saturatic Saturatic Water M	GY GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) the Decedie (B2)	is required;	<u>check all that ap</u> Water-Sta Aquatic Fa True Aqua Hydrogen	oply) ined Leave auna (B13) atic Plants Sulfide Oc	es (B9) (B14) for (C1)		Hydric So <u>Secon</u> <u>Su</u> <u>Dr</u> <u>Dr</u> <u>Cr</u>	dary Indicators (minimum of two required urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)
Type: Depth (inc Remarks: Hydric s Hydric s	GY GY Grology Indicators: Eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) work (P2)	is required;	- - - - - - - - - - - - - -	oply) ined Leave auna (B13) atic Plants Sulfide Oo Rhizosphe	es (B9) (B14) dor (C1) res on Liv	ing Roots	Hydric So <u>Seconn</u> <u>Seconn</u> <u>Su</u> <u>Cr</u> (C3) <u>S</u>	dary Indicators (minimum of two required urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Type: Depth (ind Remarks: Hydric s Hydric s Hydric s Hydric s Hydric s Sufface High Wa Saturatio Water M Sedimer Drift Dep	GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) t or Cruet (P4)	is required;	- - - - - - - - - - - - - -	oply) ined Leav auna (B13) atic Plants Sulfide Oo Rhizosphe of Reduce	es (B9) (B14) dor (C1) res on Liv d Iron (C4	ing Roots	Hydric So Secon Secon Cr (C3) Sa St Cr (C3) Sa St Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr	dary Indicators (minimum of two required urface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) accompting Pasition (D2)
Type: Depth (ind Remarks: Hydric s Hydric s Hydric s Hydric s Type Surface High Wa Surface High Wa Surface Drimary Indic Surface High Wa Saturatio Nater M Sedimer Drift Dep Algal Ma	Ches): Soil present. GY trology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) th Deposits (B2) posits (B3) tt or Crust (B4) posits (B5)	is required:	- - - - - - - - - - - - - -	oply) ined Leav auna (B13) atic Plants Sulfide Oo Rhizosphe of Reduce on Reductio	es (B9) (B14) dor (C1) res on Liv d Iron (C4 on in Tille	ing Roots I) d Soils (C	Hydric So Secon Secon Su Dr Dr Cr (C3) Sa St 6) Ge	dary Indicators (minimum of two required urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) eomorphic Position (D2)
Type: Depth (ind Remarks: Hydric s Hydric s Hydric s Hydric s Hydric s Sufface High Wa Saturatio Water M Saturatio Drift Dep Algal Ma Iron Dep	GY GY drology Indicators: Eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) arks (B2) posits (B3) to r Crust (B4) posits (B5) on Visible on Aerial Inco	is required;	Water-Sta Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	oply) ined Leave auna (B13) atic Plants Sulfide Oo Rhizosphe of Reduce on Reduction Surface (Well Date	es (B9) (B14) dor (C1) res on Liv d Iron (C4 on in Tille C7) (D9)	ing Roots I) d Soils (C	Hydric So Secon Su Dr Dr Cr (C3) Sa St 6) Ge FA	dary Indicators (minimum of two required urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) eomorphic Position (D2) AC-Neutral Test (D5)

 Field Observations:

 Surface Water Present?
 Yes _____ No _
 Depth (inches): ______

 Water Table Present?
 Yes _____ No _
 Depth (inches): ______

 Saturation Present?
 Yes _____ No _
 Depth (inches): ______

 Saturation Present?
 Yes _____ No _
 Depth (inches): ______

 Uncludes capillary fringe)
 Depth (inches): _______
 Wetland Hydrology Present? Yes _____ No _

 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
 Remarks:

 Wetland hydrology absent.
 Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Oh	io Sampling Point: 1-N
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N	I R11E SN29
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex	, none): Concave
Slope (%): 1 Lat: 41.095686	Long: -83.612714	Datum: WGS 84
Soil Map Unit Name: PmA	NWI	classification: <u>N/A</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, expl	ain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumsta	ances" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, tran	sects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland? Yes No
Remarks:		

PEM. ORAM score of 31.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species
J	·	- Tatal Car		That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Cov	/er	Prevalence Index worksheet:
<u></u>				Total % Cover of: Multiply by:
0				$\frac{1}{OBL \text{ species}} = \frac{20}{x + 1 - 20}$
2	·			$\Delta C W \text{ areasing } 60 \text{ where } 120 \text{ measure } 120 $
3				FACTV species $\frac{00}{2}$ $\chi_2 = \frac{120}{0}$
4				FAC species 0 $x 3 = 0$
5				FACU species $0 \times 4 = 0$
E ft -		= Total Cov	/er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5111)	20			Column Totals: 80 (A) 140 (B)
	20		FACW	4.75
2. Phalaris arundinacea	20	<u> </u>	FACW	Prevalence Index = B/A = 1.75
_{3.} Carex grayi	10		FACW	Hydrophytic Vegetation Indicators:
4. Carex lupulina	10		OBL	✓ 1 - Rapid Test for Hydrophytic Vegetation
5. Carex stipata	10		OBL	✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10	70%			¹ Indicators of hydric soil and wetland hydrology must
Weedy Vine Stratum (Plot size: 30 ft r	70%	= Total Cov	/er	be present, unless disturbed or problematic.
Vitis rinaria	10	~	FACW	
				Hydrophytic
2	100/			Present? Yes No
	10%	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

SOIL								Sampling Point: 1-N
Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 3/1	95	10YR 5/6	5	<u>C</u>	M	Silty Clay	
-								
<u> </u>								
-								
-								
¹ Type: C=Co	oncentration. D=Der	letion. RM	=Reduced Matrix, M	- S=Maske	d Sand Gr	ains.	² Location	PL=Pore Lining, M=Matrix,
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy (Gleyed M	atrix (S4)		Coast	Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy F	Redox (S	5)		Dark S	urface (S7)
Black Hi	stic (A3)		Stripped	d Matrix (S6)		Iron-M	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy I	Mucky M	ineral (F1)		Very S	hallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other ((Explain in Remarks)
2 cm Mu	ick (A10) d Balaw Dark Surfaa	~ (11)	Deplete	d Matrix	(F3) iaaa (F6)			
Depieted	ark Surface (A12)	e (ATT)		d Dark Sun	urface (FO)	`	³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox [Depressio	ons (F8))	wetland	d hydrology must be present.
5 cm Mu	icky Peat or Peat (S	3)					unless	disturbed or problematic.
Restrictive I	Layer (if observed)	:						
Туре:								
Depth (ind	ches):						Hydric Soil	Present? Yes No
Remarks:								
	!!							
Hydric s	son present.							
	GY							
Wotland Hw	dralagy Indicators:							
	ators (minimum of		inadi abaak all that an	(hall)			Secondo	ruladiactors (minimum of two required)
		ne is requi		in ord Loop	(D0)			and Soil Crocks (RG)
Sunace	vvater (AT)		vvater-Sta	Ined Lea	ves (B9)		Sur	
) (D14)			Socoon Water Table (C2)
Water M	larks (B1)		Hvdrogen	Sulfide (dor(C1)		Dry-	dish Burrows (C8)
Sedimer	nt Deposits (B2)			Sunde C	ares on Liv	ing Roots	(C3) Satu	uration Visible on Aerial Imagery (C9)
Drift Der	nosits (B3)		Presence	of Reduc	ed Iron (C4	1)	(00) Out	ated or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	tion in Tille	+) d Soils (Cf	6) 🖌 Geo	morphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		✓ FAC	-Neutral Test (D5)
Inundatio	on Visible on Aerial	lmagery (B	7) Gauge or	Well Data	(O)			
Sparsely	Vegetated Concav	e Surface (B8) Other (Exp	plain in R	emarks)			
Field Obser	vations:		/		,			
Surface Wat	er Present?	'es	No Cepth (in	ches):				
Water Table	Present? Y	'es	No V Depth (in	ches):		_		
Saturation P	resent?	'es	No V Depth (in	ches):		- Wetl	and Hydrology	Present? Yes 🗸 No
(includes cap	pillary fringe)							,
Describe Re	corded Data (stream	i gauge, m	onitoring well, aerial	photos, p	revious ins	spections),	if available:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	(City/County:	Findlay	/Hancock	_ Sampling Date:	2022-06-30
Applicant/Owner: AEP				_{State:} Ohio	_ Sampling Point:	1-N/O/P UPL
Investigator(s): Beth Hollinden, Chris Davisson		Section, Tov	wnship, Ra	nge: OH01 T2N R11	E SN29	
Landform (hillslope, terrace, etc.): Hillslope		I	ocal relief	(concave, convex, none): Convex	
Slope (%): 1 Lat: _41.095401		Long: -83.	.613297		Datum: WGS 8	34
Soil Map Unit Name: PmA				NWI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical for this	lime of yea	ar? Yes	No_	(If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology sig	nificantly	disturbed?	Are °	'Normal Circumstances"	present? Yes	No
Are Vegetation . Soil . or Hydrology na	turally pro	blematic?	(lf ne	eded, explain any answ	vers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map s	howing	sampling	g point l	ocations, transect	s, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes No	<u>~</u>	Is the	e Sampled	Area		
Wetland Hydrology Present? Yes No	<u>~</u>	with	in a Wetlar	nd? Yes	No	-
Upland sample point for Wetland 1-N	∖, Wet	land 1-	O, and	Wetland 1-P.		
	Absolute	Dominant	Indicator	Dominance Test wor	rksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1	% Cover	Species?	Status	Number of Dominant That Are OBL, FACW	Species , or FAC: 2	(A)
2				Total Number of Dom	inant	
3				Species Across All St	rata: <u>2</u>	(B)
4				Percent of Dominant	Species	
5				That Are OBL, FACW	, or FAC: <u>100</u>	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index wo	orksheet:	
1.				Total % Cover of:	Multip	ly by:
2.				OBL species 0	x 1 = 0	
3				FACW species 70	x 2 = <u>140</u>	0
4				FAC species 20	x 3 = <u>60</u>	
5				FACU species 10	x 4 = <u>40</u>	
F f + -		= Total Cov	ver	UPL species 0	x 5 =	
Herb Stratum (Plot size: 5 TT r)	70	~	FACW	Column Totals: 100	(A)	0(B)
	20		FAC	Prevalence Inde	$a_{\rm X} = B/A = 2.40$	
2. Solidado canadensis	10		FACU	Hydrophytic Vegetat	tion Indicators:	
				1 - Rapid Test for	Hvdrophytic Vege	tation
4				✓ 2 - Dominance Te	est is >50%	
6.				3 - Prevalence In	dex is ≤3.0 ¹	
7				4 - Morphological	Adaptations ¹ (Prov	vide supporting
8				data in Remar	ks or on a separate	e sheet)
9.				Problematic Hydr	ophytic Vegetation	¹ (Explain)
10.						
Woody Vine Stratum (Plot size: <u>30 ft r</u>)	100%	= Total Cov	rer	¹ Indicators of hydric s be present, unless dis	oil and wetland hyd sturbed or problema	drology must atic.
1				Hydrophytic		
2				Vegetation		
		= Total Cov	/er	Fresent? Y	es NO	
Remarks: (Include photo numbers here or on a separate sh	eet.)					
Hydrophytic vegetation present.						

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the i	indicator	or confirm	n the absence of indicat	tors.)	
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 4/1	100					Silty Clay		
6-9	10YR 4/1	95	10YR 5/6	5	<u>C</u>	M	Silty Clay		
-									
-									
¹ Type: C=C	oncentration, D=Dep	pletion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL=Pore	e Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for Probl	ematic Hydric Soils [°] :	
Histosol	(A1)		Sandy C	Gleyed Ma	atrix (S4)		Coast Prairie Re	dox (A16)	
Block L	pipedon (A2)		Sandy F	Redox (S5))		Dark Surface (Si	() Maaaaa (E12)	
Hydroge	n Sulfide (A4)		Supped	Mucky Mir	neral (F1)		Very Shallow Da	INASSES (F12) Irk Surface (TF12)	
Stratifie	d Lavers (A5)		Loamy (Gleved Ma	atrix (F2)		Other (Explain in	Remarks)	
2 cm Mi	uck (A10)		Deplete	d Matrix (F3)				
Deplete	d Below Dark Surfac	ce (A11)	Redox [Dark Surfa	ace (F6)				
Thick Da	ark Surface (A12)		Deplete	d Dark Su	irface (F7))	³ Indicators of hydrophytic vegetation and		
Sandy M	Aucky Mineral (S1)		Redox [Depressio	ns (F8)		wetland hydrology must be present,		
5 cm Mi	ucky Peat or Peat (S	(3)					unless disturbed	or problematic.	
Tuno: G	ravel								
Depth (in							Hydric Soil Present?	Yes No	
Bemarke:									
Remarks.									
Hydric :	soil absent.								
	GY								
Wetland Hy	drology Indicators								
Primary Indi	cators (minimum of	one is requir	ed: check all that an	(vla			Secondary Indicate	ors (minimum of two required)	
Surface	Water (A1)		Water-Stai	ined Leav	es (B9)		Surface Soil C	racks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	una (B13)		Drainage Patt	erns (B10)	
Saturati	on (A3)		True Aqua	tic Plants	/ (B14)		Drv-Season W	vater Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burro	ows (C8)	
Sedime	nt Deposits (B2)		Oxidized R	Rhizosphe	res on Liv	ing Roots	(C3) Saturation Vis	ible on Aerial Imagery (C9)	
Drift De	posits (B3)		Presence of	of Reduce	ed Iron (C4	4)	Stunted or Str	essed Plants (D1)	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6						6) Geomorphic F	Position (D2)		
Iron Dep	posits (B5)		Thin Muck	Surface ((C7)		FAC-Neutral 1	lest (D5)	
Inundati	on Visible on Aerial	Imagery (B7	7) Gauge or \	Well Data	(D9)				
Sparsel	y Vegetated Concav	e Surface (I	38) Other (Exp	olain in Re	emarks)				
Field Obser	vations:								
Surface Wat	er Present?	/es	No Depth (ind	ches):		_			
Water Table	Present?	/es	No 🔽 Depth (ind	ches):		_			
Saturation P	resent?	/es	No 🖌 Depth (ind	ches):		_ Wetl	and Hydrology Present	? Yes No	
Describe Re	corded Data (strean	n gauge, mo	nitoring well, aerial p	photos, pr	evious ins	pections),	if available:		

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-0
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11E	SN29
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave
Slope (%): 1 Lat: 41.095571	Long: -83.613271	Datum: WGS 84
Soil Map Unit Name: PmA	NWI classific	cation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" p	present? Yes 🗾 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	ers in Remarks.)
		in a stant facture of

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			

PEM. ORAM score of 31.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:					
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species					
1				That Are OBL, FACW, or FAC: <u>3</u> (A)					
2				Total Number of Dominant					
3				Species Across All Strata; 3 (B)					
4.				(-,					
5				Percent of Dominant Species					
···		- Total Cav		That Are OBL, FACW, or FAC: 100 (A/B)					
Sapling/Shrub Stratum (Plot size: 15 ft r)		- Total Cov		Prevalence Index worksheet:					
1. Cephalanthus occidentalis	10	~	OBL	Total % Cover of: Multiply by:					
2				$OBL \text{ species}$ 30 $x_1 = 30$					
3				EACW species 70 x 2 = 140					
S				EAC species 0 $x_3 = 0$					
4				$\frac{1}{1} = \frac{1}{1} = \frac{1}$					
5	100/			$\frac{1}{2}$					
Herb Stratum (Plot size: 5 ft r)	10%	= Total Cov	er	$\frac{100}{100} \times 5 = \frac{100}{170} \times 5 = \frac{170}{170}$					
Phalaris arundinacea	40	~	FACW	Column Totals: 100 (A) 170 (B)					
Carex vulpinoidea	20		FACW	Prevalence Index = B/A = 1.70					
	10		FACW	Hydrophytic Vegetation Indicators:					
	10			1 Denid Test for Hudronbutic Vegetation					
	10								
5. Carex stipata	10		OBL	2 - Dominance Test is >50%					
6				\checkmark 3 - Prevalence Index is $\leq 3.0^{\circ}$					
7				4 - Morphological Adaptations ¹ (Provide supporting					
8				data in Remarks or on a separate sneet)					
9				Problematic Hydrophytic Vegetation (Explain)					
10.									
	90%	= Total Cov	er	¹ Indicators of hydric soil and wetland hydrology must					
Woody Vine Stratum (Plot size: 30 ft r)		10101 001	0.	be present, unless disturbed or problematic.					
1				Hydrophytic					
2.				Vegetation					
		= Total Cov	er	Present? Yes No No					
Remarks: (Include photo numbers here or on a separate s	heet.)			1					
lydrophytic vegetation present.									

SOIL								Sampling Point: 1-0
Profile Desc	ription: (Describe	o the dep	th needed to docur	nent the	indicator	or confiri	m the absence o	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 5/1	95	10YR 5/6	5	С	М	Silty Clay	
-								
							· ·	
							· ·	
-								
-								
							· ·	
17 0.0							2	
Type: C=Co	oncentration, D=Dep	etion, RM	=Reduced Matrix, Ma	S=Maske	d Sand Gr	ains.	Location:	PL=Pore Lining, M=Matrix.
Hydric Soli I			Candu (-1-1-1 (0.1)			
HISTOSOI	(A1) Vinadan (A2)		Sandy C	Sedex (S	atrix (54)		Coast P	
Black Hi	stic (A3)		Sanuy r	Matrix (5) S6)		Dark St	inganese Masses (F12)
Hvdroge	n Sulfide (A4)		Loamy I	Mucky M	ineral (F1)		Verv Sh	nallow Dark Surface (TF12)
Stratified	Lavers (A5)		Loamy (Gleved N	latrix (F2)		Other (B	Explain in Remarks)
2 cm Mu	ick (A10)		 Deplete 	d Matrix	(F3)			,
Depleted	d Below Dark Surface	e (A11)	Redox [Dark Surf	ace (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark S	urface (F7)	³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox [Depressio	ons (F8)		wetland	hydrology must be present,
5 cm Mu	icky Peat or Peat (S3	5)					unless o	disturbed or problematic.
Restrictive L	_ayer (if observed):							
Туре:							Hydric Soil F	Present? Yes V No
Depth (inc	ches):							
Remarks:								
Hydric	soil present							
HYDROLO	GY							
Wetland Hvo	drology Indicators:							
Primary Indic	ators (minimum of o	ne is requi	red: check all that an	(vla			Secondar	v Indicators (minimum of two required)
Surface	Water (A1)	<u>lo lo loqui</u>	Water-Stai	ined Lea	(BQ)		<u>Surfa</u>	
High Wa	ter Table ($\Delta 2$)			una (B1	2) 2)		Ouria	age Patterns (B10)
	$(\Delta 3)$			tic Plants	(B14)		Drain	Season Water Table (C2)
Water M	arks (B1)		Hvdrogen	Sulfide (dor(C1)		Dry-c	fish Burrows (C8)
Sedimer	at Denosite (B2)			Phizosoph	ares on Liv	vina Roots	(C3) Satur	ration Visible on Aerial Imagery (C9)
Drift Der	n Depusits (DZ)		Oxidized I	of Reduc	ed Iron (C	4)	Stunt	ad or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	t) d Soils (C	6) 🖌 Geor	norphic Position (D2)
Iron Den	ar or order (D+)		Thin Muck	Surface	(C7)	u 0013 (0		Neutral Test (D5)
	on Visible on Aerial I	magery (B	7) Gauge or 1	Well Date	(O7) a (D9)		<u> </u>	
Sparsely	Vegetated Concave	Surface (B8) Other (Exr	lain in R	emarks)			
Eield Obser	vations:	ounace (emarks			
Surface Wet	or Present? V	20	No Penth (in	ches).				
Water Table								
Seturation D			No Depth (Inc	-hes):)	-		Dragont2 Vac V
includes car	pillary fringe)	-8	Depth (in	unes): <u>IC</u>	,	_ wet	iand Hydrology	Present? Tes No
Describe Red	corded Data (stream	gauge, m	onitoring well, aerial	photos, p	revious ins	spections)	, if available:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State: Ohio	Sampling Point: <u>1-P</u>
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11E	SN29
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave
Slope (%): 1 Lat: 41.095338	Long: -83.613719	Datum: WGS 84
Soil Map Unit Name: PmA	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	oresent? Yes 🗾 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland? Yes No
Remarks:		

PEM. ORAM score of 30.

20.64 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				()
5				Percent of Dominant Species
		= Total Cov		That Are OBL, FACW, of FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 000		Prevalence Index worksheet:
1. Cephalanthus occidentalis	10	~	OBL	Total % Cover of: Multiply by:
2				OBL species 30 $x_1 = 30$
3				EACW species $\frac{80}{2}$ x 2 = $\frac{160}{2}$
۰				EAC species 0 $x_3 = 0$
4				$\frac{1}{1} = \frac{1}{1} = \frac{1}$
5	100/			FACO species $\frac{0}{2}$ $x = 0$
Horb Stratum (Plot size: 5 ft r	10%	= Total Cov	er	UPL species 0 $x = 0$
Carex vulpinoidea	50	~	FACW	Column Totals: 110 (A) 190 (B)
Dhalaris arundinacea	20		EACW/	Provelence Index = P/A = 1.73
	10			
3. Carex grayi	10		FACW	Hydrophytic Vegetation Indicators:
4. Carex lurida	10		OBL	✓ 1 - Rapid Test for Hydrophytic Vegetation
5. Carex stipata	10		OBL	2 - Dominance Test is >50%
6				\checkmark 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
10	100%	- Total Cav		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		- 10tai C0v		be present, unless disturbed or problematic.
1.				Hudronbutio
2				Vegetation
£		- Total Cov		Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	theet)	- 10(a) 000		
Hydrophytic vegetation present.				

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confir	m the absence of indic	ators.)	
Depth	Matrix		Redo	x Feature	es1	. 2			
(inches)	Color (moist)		Color (moist)	%	Type	_Loc~		Remarks	
0-4	10YR 4/2	95	10YR 5/6	5	<u> </u>	М	Silty Clay		
4 - 20	10YR 6/2		10YR 6/1	5	<u>D</u>	M	Silty Clay		
4 - 20	10YR 6/2	75	10YR 5/6	20	<u>C</u>	М	Silty Clay		
-									
-									
							·		
1= 0.0							2		
Hydric Soil	oncentration, D=Dep	etion, RM	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	Location: PL=Pe	pre Lining, M=Matrix.	
Histosol	(Δ1)		Sandy	leved M	atrix (SA)		Coast Prairie F	Peday (A16)	
Histic Er	vipedon (A2)		Sandy F	Redox (S	5)		Dark Surface (S7)	
Black Hi	stic (A3)		Stripped	Matrix (S6)		Iron-Manganes	se Masses (F12)	
Hydroge	n Sulfide (A4)		Loamy I	Mucky Mi	neral (F1)		Very Shallow [Dark Surface (TF12)	
Stratified	Layers (A5)		Loamy (Gleyed M	atrix (F2)		Other (Explain	in Remarks)	
2 cm Mu	ick (A10)		✓ Deplete	d Matrix ((F3)			-	
Depleted	d Below Dark Surfac	e (A11)	Redox [Dark Surf	ace (F6)				
Thick Da	ark Surface (A12)		Deplete	d Dark S	urface (F7)	³ Indicators of hydr	ophytic vegetation and	
Sandy M	lucky Mineral (S1)		Redox [Depressio	ons (F8)		wetland hydrol	ogy must be present,	
5 cm Mu	icky Peat or Peat (S	3)					unless disturbe	ed or problematic.	
Tupo	Layer (if observed)								
Depth (in	abaa):						Hydric Soil Presen	t? Yes 🦯 No	
Deptil (ind									
Hydric s	soil present.								
	GY								
Wetland Hyd	drology indicators:		adiabaakalliihataa				Coordon India	ators (minimum of two required)	
Primary Indic	cators (minimum of c	one is requi	red; check all that ap		(50)		Secondary Indic	ators (minimum of two required)	
	vvater (A1)		vvater-Stal	Ined Lea	/es (B9)			Cracks (B6)	
High vva	iter Table (AZ)		Aquatic Fa	iuna (B13) (D4.4)		Drainage Pa	Mater Table (00)	
Saturatio	on (A3)		True Aqua	tic Plants	6 (B14)		Dry-Season	Water Table (C2)	
Water W	arks (DT)		Hydrogen	Sunde O		ing Deata	(C2) Crayiish Bui	lows (Co)	
Sedimer	It Deposits (B2)			chizosphe of Doduo			(C3) Saturation v	Stressed Plants (D1)	
	ousits (D3)		Presence of			4) d Saila (C	Stunted of a	Resition (D2)	
	at or Crust (B4)		Recent Iro	n Reduct		a Solis (C	Geomorphic	L Toot (D5)	
Iron Dep	oosiis (BD)	magan (D					PAC-Neutra	Test (D5)	
mundatio	Vegetated Concav	Surface (R8) Other (Evr	viel Data	(D9)				
Eield Obser	vegetated Concav	e Sunace (emarks)				
Surface Wat	or Present? V	00	No 🗸 Depth (in	chec).					
Water Table	Breeent?	es	No <u>P</u> Depth (ind	ches)		-			
Seturation D	resent?		No Depth (inc	ohee))	—	land Hudrology Droco	nt2 Voo 🖌 No	
(includes cap	pillary fringe)	es		cnes): <u>re</u>	/		iand Hydrology Prese	nt? res No	
Describe Red	corded Data (stream	gauge, mo	onitoring well, aerial p	photos, p	revious ins	spections)	, if available:		
Remarks:									
Wetland hydrology present.									

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30				
Applicant/Owner: AEP	State: _	Ohio Sampling Point: 1-Q				
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T	2N R11E SN32				
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (concave, con	/ex, none): Concave				
Slope (%): 2 Lat: 41.092801	Long: -83.623111	Datum: WGS 84				
Soil Map Unit Name: PmA	N	WI classification: R4SBC				
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, e	explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	ly disturbed? Are "Normal Circumstances" present? Yes 🗾 No 🔄					
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain	any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydronbytic Vegetation Brocent? Veg V						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V N Yes V N	NO No No	is the Sampled Area within a Wetland?	Yes 🔽	No
Remarks:					

PEM. ORAM score of 17.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4.				(/
5.				Percent of Dominant Species
		= Total Cov		That Ale OBL, FACW, OF FAC. 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 000		Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2.				OBL species 0 x 1 = 0
3.				FACW species 90 x 2 = 180
4				FAC species 0 x 3 = 0
5				FACU species $10 x 4 = 40$
		- Total Cox		$ \text{IPL species } 0 \qquad x = 0$
Herb Stratum (Plot size: 5 ft r)		- 10(a) 000		Column Totals: 100 (A) 220 (B)
1. Phalaris arundinacea	90	~	FACW	
2. Asclepias syriaca	10		FACU	Prevalence Index = $B/A = 2.20$
3.				Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				✓ 3 - Prevalence Index is $\leq 3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10.	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	10070		/er	be present, unless disturbed or problematic.
1				Ludronhutio
2				Vegetation
2		- Total Ca		Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet)	- 10(a) 00(
Nonano. (include proto numbers here of on a separate of				
Hydrophytic vegetation present.				

	rintion: (Deceribe	to the day	ath pooded to deau	mont the	indicator	or confir	m the abconce of in	diastore)
Profile Desc	inpuoli: (Describe	to the dep	Still needed to docu		mulcator	or comm	in the absence of in	dicators.)
(inches)	Color (moist)	%	Color (moist)	<u>ox Featur</u> %	es Type ¹	l oc ²	Texture	Remarks
0 - 4	10YR 5/1	95	10YR 5/6	5	C	<u> </u>	Silty Clay	
4 - 20	10YR 5/1	75	10YR 5/6	20			Silty Clay	
4 - 20	10YR 5/1	75	10YR 7/1	5			Silty Clay	
-								
-								
-								
¹ Type: C=Ce	oncentration. D=Der	letion. RM	Reduced Matrix, M	S=Maske	ed Sand G	ains.	² Location: PL	=Pore Lining, M=Matrix,
Hydric Soil	Indicators:			-			Indicators for I	Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed N	latrix (S4)		Coast Prair	ie Redox (A16)
Histic Ep	oipedon (A2)		Sandy	Redox (S	5)		Dark Surface	ce (S7)
Black Hi	stic (A3)		Strippe	d Matrix ((S6)		Iron-Manga	nese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very Shallo	w Dark Surface (TF12)
Stratified	Layers (AD)		Loamy	Gleyed N ad Matrix	(E2)		Other (Expl	ain in Remarks)
2 cm with Depleter	NR (ATU) NR elow Dark Surfac	ο (Δ11)		Dark Sur	(FS) face (E6)			
Thick Da	ark Surface (A12)	e (ATT)	Redox	ed Dark Sur	lace (F0) Surface (F7	.)	³ Indicators of h	vdrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox	Depressi	ons (F8)	,	wetland hyd	Irology must be present.
5 cm Mu	icky Peat or Peat (S	3)			· · /		unless distu	urbed or problematic.
Restrictive I	_ayer (if observed)							
Type:							Hydric Soil Pres	eent? Yes V No
Depth (ind	ches):						Thyunc boin mea	
Hydric s	soil present.							
	GY							
	G I drology Indicators							
Primary India	ators (minimum of c	ne is requ	ired: check all that a	nnlv)			Secondary In	dicators (minimum of two required)
	Water (A1)	ne is iequ	Water-Sta	ained Lea	Ves (B9)		Surface S	Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic F	auna (B1	3)			Patterns (B10)
✓ Saturatio	on (A3)		True Aqua	atic Plant	s (B14)		Drv-Seas	son Water Table (C2)
Water M	arks (B1)		Hvdrogen	Sulfide C	Odor (C1)		Cravfish	Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Li	ving Roots	(C3) Saturatio	on Visible on Aerial Imagery (C9)
Drift Der	oosits (B3)		Presence	of Reduc	ed Iron (C	4)	Stunted of	or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ire	on Reduc	tion in Tille	ed Soils (C	6) V Geomor	phic Position (D2)
Iron Dep	osits (B5)		Thin Mucl	k Surface	(C7)	,	FAC-Neu	utral Test (D5)
Inundati	on Visible on Aerial	Imagery (E	87) Gauge or	Well Dat	a (D9)		_	
Sparsely	Vegetated Concav	e Surface	(B8) Other (Ex	plain in R	emarks)			
Field Obser	vations:							
Surface Wate	er Present? Y	′es	No Depth (in	nches): 1		_		
Water Table	Present? Y	'es 🔽	No Depth (in	nches): 0		_		,
Saturation P	resent? Y	'es 🔽	No Depth (in	nches): <u>0</u>		Wet	land Hydrology Pre	esent? Yes V No
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious in	spections)	, if available:	
Remarks:								
Wetland	hydrology	oreser	ıt.					

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30
Applicant/Owner: AEP	State:	Ohio Sampling Point: 1-Q UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH-1 T	2N R11E SN32
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, cor	ivex, none): None
Slope (%): _0 Lat: _41.092854	Long: -83.622767	Datum: WGS 84
Soil Map Unit Name: PmA	N	IWI classification: R4SBC
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes 🖌 No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrology sig	gnificantly disturbed? Are "Normal Circu	mstances" present? Yes No
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling point locations, t	ransects, important features, etc.
Hydrophytic Vegetation Present? Yes No	<u> </u>	
Hydric Soil Present? Yes No	✓ Is the Sampled Area	
Wetland Hydrology Present? Yes No	✓ within a Wetland?	Yes No

Remarks:

Upland point for Wetland 1-Q. Located on edge of agricultural field.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
4				
	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 0 (A/B)
Sopling/Shruh Stratum (Plot size: 15 ft r		= Total Cov	/er	Prevalence Index worksheet:
1	·			
2	·			OBL species 0 $x = 0$
3				FACW species 0 x 2 = 0
4				FAC species 0 x 3 = 0
5.				FACU species 100 x 4 = 400
		= Total Cov	/er	UPL species 0 $x = 0$
Herb Stratum (Plot size: <u>5 ft r</u>)		rotal oo		Column Totals: 100 (A) 400 (B)
1. Digitaria bicornis	40	~	FACU	
2. Festuca rubra	40	~	FACU	Prevalence Index = B/A = 4.00
3. Asclepias syriaca	20	~	FACU	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
o				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10	4000/			¹ Indicators of hydric soil and wetland hydrology must
Weath View Obstance (Distained 30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
(Plot size:)				
1	·			Hydrophytic
2				Vegetation Present2 Ves No
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

Profile Des	cription: (Describe	to the depth r	needed to docu	ment the ind	licator or conf	firm the absence of indicators.)
Depth	Matrix		Red	ox Features		_
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ Loc ²	TextureRemarks
0-6	10YR 5/3	100				Silty Clay
-						
-						
-						
¹ Type: C=C	oncentration, D=De	pletion, RM=Re	duced Matrix, M	S=Masked S	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:					Indicators for Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy	Gleyed Matri	x (S4)	Coast Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy	Redox (S5)		Dark Surface (S7)
Black H	istic (A3)		Strippe	d Matrix (S6)		Iron-Manganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky Miner	al (F1)	Very Shallow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy	Gleyed Matri	x (F2)	Other (Explain in Remarks)
2 cm M	uck (A10)		Deplete	ed Matrix (F3))	
Deplete	d Below Dark Surfac	ce (A11)	Redox	Dark Surface	e (F6)	
Thick D	ark Surface (A12)		Deplete	ed Dark Surfa	ice (F7)	³ Indicators of hydrophytic vegetation and
Sandy M	Mucky Mineral (S1)		Redox	Depressions	(F8)	wetland hydrology must be present,
5 cm M	ucky Peat or Peat (S	3)				unless disturbed or problematic.
Restrictive	Layer (if observed)	:				
Type: G	ravel		_			
Depth (in	ches): 6		_			Hydric Soil Present? Yes No
Remarks:						
	aail ahaant					
нуалс	son absent.					
HYDROLC)GY					
Wetland Hy	drology Indicators	:				
Primary Indi	cators (minimum of	one is required;	check all that a	pply)		Secondary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Leaves	(B9)	Surface Soil Cracks (B6)
High W	ater Table (A2)		Aquatic F	auna (B13)		Drainage Patterns (B10)

True Aquatic Plants (B14)

Presence of Reduced Iron (C4)

Recent Iron Reduction in Tilled Soils (C6)

____ Hydrogen Sulfide Odor (C1)

____ Thin Muck Surface (C7)

___ Gauge or Well Data (D9)

_ Depth (inches): _

Other (Explain in Remarks)

- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ____ Oxidized Rhizospheres on Living Roots (C3) ____ Saturation Visible on Aerial Imagery (C9)
 - ___ Stunted or Stressed Plants (D1)
 - Geomorphic Position (D2)
 - ____ FAC-Neutral Test (D5)

Water Table Present? Yes _____ No _ Depth (inches): ______ Wetland Hydrology Present? Yes _____ Saturation Present? Yes _____ No _ Depth (inches): ______ Wetland Hydrology Present? Yes _____ (includes capillary fringe) Depth (inches): _______ Wetland Hydrology Present? Yes ______ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Wetland hydrology absent.

~

No

Saturation (A3)

____ Water Marks (B1)

___ Drift Deposits (B3)

____ Iron Deposits (B5)

Field Observations:

Surface Water Present?

_ Sediment Deposits (B2)

____ Inundation Visible on Aerial Imagery (B7)

Sparsely Vegetated Concave Surface (B8)

Yes_

____ Algal Mat or Crust (B4)

___ No __ 🗸

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Har	lcock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		_ _{State:} Ohio	Sampling Point:	1-R
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN32	
Landform (hillslope, terrace, etc.): Depression Toeslope	Local relief (cond	cave, convex, none):	Concave	
Slope (%): 2 Lat: 41.091286	Long: -83.629611		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norn	nal Circumstances" p	oresent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locat	tions, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>v</u> No Yes <u>v</u> No Yes <u>v</u> No	Is the Sampled Area within a Wetland?	Yes No
Remarks:		·	

PEM. ORAM score of 17.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5.				Percent of Dominant Species
		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species <u>80</u> x 1 = <u>80</u>
3.				FACW species 20 x 2 = 40
4.				FAC species 0 x 3 = 0
5				FACU species 0 $x = 0$
		= Total Cov		UPL species $\overline{0}$ x 5 = $\overline{0}$
Herb Stratum (Plot size: <u>5 ft r</u>)		10101 001		Column Totals: 100 (A) 120 (B)
1. Typha angustifolia	80	~	OBL	
2. Phalaris arundinacea	20	~	FACW	Prevalence Index = B/A = <u>1.20</u>
3				Hydrophytic Vegetation Indicators:
4.				✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
10	100%	- Total Cox		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		- 10(a) 000		be present, unless disturbed or problematic.
1				Hydrophytic
2.				Vegetation
		= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

				- 1	. 2		– .
(inches) Color (<u>noist) %</u>	Color (moist)	_ <u>%</u>				Remarks
$\frac{0-10}{10+00}$ $\frac{10+0}{10+0}$	<u> </u>	<u>101R 5/6</u>	_ 5				
<u>10-20</u> 10YR 4	90	<u>10YR 5/6</u>	10	<u> </u>	M	Silty Clay	
						·	
						·	
Type: C=Concentratio	ı, D=Depletion, R	M=Reduced Matrix, M	IS=Maske	d Sand G	ains.	² Location: Pl	L=Pore Lining, M=Matrix.
lydric Soil Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol (A1)		Sandy	Gleyed M	atrix (S4)		Coast Prai	rie Redox (A16)
Histic Epipedon (A2 Plack Histic (A2))	Sandy	Redox (S	5)		Dark Surfa	
Black Histic (AS) Hydrogen Sulfide (/	4)	Loamv	Mucky M	ineral (F1)		Verv Shall	ow Dark Surface (TF12)
Stratified Layers (A	5)	Loamy	Gleved N	latrix (F2)		Other (Exp	plain in Remarks)
2 cm Muck (A10)	,	V Deplete	ed Matrix	(F3)			,
_ Depleted Below Da	rk Surface (A11)	Redox	Dark Sur	ace (F6)			
Thick Dark Surface	(A12)	Deplete	ed Dark S	urface (F7)	³ Indicators of I	nydrophytic vegetation and
_ Sandy Mucky Mine	al (S1)	Redox	Depressi	ons (F8)		wetland hy	drology must be present,
5 cm Mucky Peat o	Peat (S3)						urbed or problematic.
testilenve Layer (il or	Serveu).						
Type:							
Type:						Hydric Soil Pre	sent? Yes 🖌 No
Type: Depth (inches): Remarks: Hydric soil pre	sent.					Hydric Soil Pre	sent? Yes 🖍 No
Type: Depth (inches): Remarks: Hydric soil pre	sent.					Hydric Soil Pre	sent? Yes <u>✓</u> No
Type: Depth (inches): Remarks: Hydric soil pre	sent.					Hydric Soil Pre	sent? Yes <u>✓</u> No
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Inc	sent.					Hydric Soil Pre	sent? Yes <u>✓</u> No
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini	sent. licators: num of one is rec	uired: check all that a	pply)			Hydric Soil Pre	sent? Yes <u>V</u> No <u>ndicators (minimum of two required</u>
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1)	sent. licators: num of one is rec	uired: check all that a Water-Sta	pply) ained Lea	ves (B9)		Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A	Sent. licators: num of one is rec \2)	<u>quired: check all that a</u> Water-Sta Aquatic F	pply) ained Lea auna (B1	ves (B9) 3)		Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3)	sent. licators: num of one is rec \2)	<u>quired: check all that a</u> Water-Sta Aquatic F True Aqua	pply) ained Lea auna (B1 atic Plants	ves (B9) 3) 3 (B14)		Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ison Water Table (C2)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1)	sent. licators: num of one is rec \2)	<u>quired: check all that a</u> Water-Sta Aquatic F True Aqu Hydrogen	pply) ained Lea auna (B1 atic Plants o Sulfide C	ves (B9) 3) 5 (B14) Odor (C1)		Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B2)	sent. licators: mum of one is red \2) (B2)	<u>quired: check all that a</u> Water-Sta Aquatic F True Aqua Hydrogen Oxidized	pply) ained Lea auna (B1 atic Planta atic Planta sulfide C Rhizosph	ves (B9) 3) s (B14) Odor (C1) eres on Liv	ring Roots	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Straced Plente (C1)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3)	sent. licators: num of one is rec \2) (B2) 34)	quired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In	pply) ained Lea auna (B1: atic Plants Sulfide C Rhizosph of Reduc	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv ed Iron (C	ring Roots 4)	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)	Sent. licators: num of one is rec \2) (B2) 34)	quired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muc	pply) ained Lea auna (B1 atic Plants of Sulfide C Rhizosph of Reduc on Reduc k Surface	ves (B9) 3) s (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7)	ring Roots 4) d Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) in Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) sutral Test (D5)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Yetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of	sent. licators: mum of one is rec \2) (B2) 34) n Aerial Imagery	uired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Indon Thin Mucl (B7) Gauge or	pply) ained Lea auna (B1 atic Plants on Sulfide C Rhizosph of Reduc on Reduc k Surface	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9)	ring Roots 4) vd Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) autral Test (D5)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated	Sent. licators: mum of one is red \2) (B2) 34) n Aerial Imagery Concave Surface	quired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muci (B7) Gauge or e (B8) Other (Ex	pply) ained Lea auna (B1 atic Planta Sulfide C Rhizosph of Reduc on Reduc k Surface Well Data splain in R	ves (B9) 3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	ring Roots 4) d Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) eutral Test (D5)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B3) Algal Mat or Crust (Sparsely Vegetated Field Observations:	sent. licators: mum of one is rec \2) (B2) B4) n Aerial Imagery Concave Surface	quired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muci (B7) Gauge or e (B8) Other (Ex	pply) ained Lea auna (B1 atic Plants a Sulfide C Rhizosph of Reduc on Reduc k Surface Well Data plain in R	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	ring Roots 4) d Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) uson Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) nutral Test (D5)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Mater Marks (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated Surface Water Present?	Sent. licators: mum of one is rec 12) (B2) B4) n Aerial Imagery Concave Surface Yes _	quired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ina Thin Muci (B7) Gauge or e (B8) Other (Ex	pply) ained Lea auna (B1 atic Plants a Sulfide C Rhizosph of Reduc on Reduc k Surface Well Data cplain in R	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	ring Roots 4) d Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) Ison Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) eutral Test (D5)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Yetland Hydrology Ind Primary Indicators (mini Yutary Indicators (mini Surface Water (A1) High Water Table (A1) High Water Table (A1) Sediment Deposits (B1) Sediment Deposits (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated Sield Observations: Surface Water Present?	sent. licators: mum of one is red \2) (B2) B4) n Aerial Imagery Concave Surface Yes <u>v</u> Yes <u>v</u>	<u>quired: check all that a</u> <u> </u>	pply) ained Lea auna (B1: atic Plants a Sulfide C Rhizosph of Reduc on Reduc k Surface Well Dats plain in R nches): <u>1</u> nches): <u>1</u>	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	ring Roots 4) d Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) autral Test (D5)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY YDROLOGY YDROLOGY Vetland Hydrology Ind Primary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Saturation Present?	sent. licators: mum of one is rec (B2) B4) n Aerial Imagery Concave Surface Yes <u>v</u> Yes <u>v</u>	quired: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muci (B7)Gauge or e (B8)Other (Ex NoDepth (ir NoDepth (ir NoDepth (ir	pply) ained Lea auna (B1: atic Plants a Sulfide C Rhizosph s of Reduc on Reduc k Surface Well Data splain in R nches): <u>0</u> nches): <u>0</u>	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks)	ring Roots 4) d Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2) nutral Test (D5)
Type: Depth (inches): Remarks: Hydric soil pre YDROLOGY Yetland Hydrology Ind Yimary Indicators (mini Yetland Hydrology Ind Yetland Hydrology	Sent. licators: mum of one is read A2) (B2) B4) n Aerial Imagery Concave Surface Yes <u>v</u> Yes <u>v</u> Yes <u>v</u> (stream gauge,	guired: check all that a	pply) ained Lea auna (B1: atic Plant: a Sulfide C Rhizosph con Reduc k Surface Well Data splain in R mches): <u>1</u> mches): <u>0</u> photos, p	ves (B9) 3) s (B14) odor (C1) eres on Liv ed Iron (C tion in Tille (C7) a (D9) emarks) revious in:	ring Roots 4) d Soils (C	Hydric Soil Pre	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) eutral Test (D5)

Project/Site: AEP Fostoria to Lima		City/County: Findlay/Han	icock	Sampling Date:	2022-06-30
Applicant/Owner: AEP			_{State:} Ohio	Sampling Point:	1-R UPL
Investigator(s): Beth Hollinden, Chris Davisson		Section, Township, Range:	OH01 T2N R11E	SN32	
Landform (hillslope, terrace, etc.): Flat		Local relief (cond	ave, convex, none)	None	
Slope (%): 0 Lat: 41.0914		Long: -83.629186		Datum: WGS 8	34
Soil Map Unit Name: PmA			NWI classifi	cation: R4SBC	
Are climatic / hydrologic conditions on the site typical fo	r this time of ye	ear? Yes 🗾 No	_ (If no, explain in F	(emarks.)	
Are Vegetation, Soil, or Hydrology	significantly	y disturbed? Are "Norm	nal Circumstances"	present? Yes	✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic? (If needed	l, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site m	ap showing	g sampling point locat	tions, transects	, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes	No				
Hydric Soil Present? Yes	_ No	Is the Sampled Area	1		
Wetland Hydrology Present? Yes	_ No _	within a Wetland?	Yes	No	_
Remarks:					

Upland point for Wetland 1-R. Located on edge of agricultural field.

00 th	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2.				
3				Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
1 <i>E f</i> + -		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 It I)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2.				OBL species 0 x 1 = 0
3				FACW species $0 \qquad x 2 = 0$
۰				EAC species 0 $x_3 = 0$
4				$\frac{1}{100} \times 4 = \frac{400}{100}$
5				FACU species $\frac{100}{0}$ $x 4 = \frac{400}{0}$
Hack Obstance (Distained 5 ft r		= Total Cov	er	UPL species $0 \times 5 = 0$
Ambrosia artomicijfolia	40		FACU	Column Totals: 100 (A) 400 (B)
	40			4.00
2. Cirsium arvense	30	<u> </u>	FACU	Prevalence Index = B/A = 4.00
3. Solidago canadensis	30	<u> </u>	FACU	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric coil and watland hydrology must
20.4	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)				
1				Hydrophytic
2				Vegetation
		= Total Cov	er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	heet.)			1
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the ir	ndicator	or confirm	m the absence of indicators.)	
Depth	Matrix		Redo	x Features	; 1			
(inches)	Color (moist)		Color (moist)	%	Type'	Loc	Texture Remarks	
0-20	10YR 4/2	_ <u>100</u> _					Silty Clay	
-								
-								
				·				
-								
-								
			Peduced Matrix M	S=Masked	Sand Gr		² Location: PL=Pore Lining M=Matrix	
Hydric Soil	Indicators:			5-Waskeu	Sand Gra	aii 15.	Indicators for Problematic Hydric Soils ³ :	:
Histosol	(A1)		Sandy (Sleved Mat	triv (SA)		Coast Prairie Redox (A16)	
Histic Er	pipedon (A2)		Sandy F	Redox (S5))		Dark Surface (S7)	
Black Hi	stic (A3)		Stripped	Matrix (S	, 6)		Iron-Manganese Masses (F12)	
Hydroge	en Sulfide (A4)		Loamy I	Mucky Min	éral (F1)		Very Shallow Dark Surface (TF12)	
Stratified	d Layers (A5)		Loamy	Gleyed Ma	trix (F2)		Other (Explain in Remarks)	
2 cm Mu	ıck (A10)		Deplete	d Matrix (F	3)			
Depleted	d Below Dark Surfac	e (A11)	Redox [Dark Surfac	ce (F6)		2	
Thick Da	ark Surface (A12)		Deplete	d Dark Sur	face (F7)		Indicators of hydrophytic vegetation and	
Sandy M	lucky Mineral (S1)	2)	Redox I	Depression	ıs (F8)		wetland hydrology must be present,	
5 cm Mu	icky Peat or Peat (S	3)					unless disturbed or problematic.	
Restrictive	Layer (II observed)	•						
Type:							Hvdric Soil Present? Yes No	~
Depth (ind	ches):							
Remarks:								
Hvdric s	soil absent.							
, ,								
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	cators (minimum of o	one is require	d: check all that ap	ply)			Secondary Indicators (minimum of two re	equired)
Surface	Water (A1)		Water-Sta	ined Leave	es (B9)		Surface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	una (B13)			Drainage Patterns (B10)	
Saturatio	on (A3)		True Aqua	tic Plants ((B14)		Dry-Season Water Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide Od	lor (C1)		Crayfish Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized F	Rhizospher	es on Livi	ing Roots	(C3) Saturation Visible on Aerial Imagery	(C9)
Drift Dep	posits (B3)		Presence	of Reduced	d Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Ma	at or Crust (B4)		Recent Iro	n Reductic	n in Tille	d Soils (C	6) Geomorphic Position (D2)	
Iron Dep	oosits (B5)		Thin Muck	Surface (0	C7)		FAC-Neutral Test (D5)	
Inundatio	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)			

Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)								
Field Observations:								
Surface Water Present?	Yes No _	Depth (inches):						
Water Table Present?	Yes No _	Depth (inches):						
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland Hydrology Present?	Yes	No	<u>~</u>		
Describe Recorded Data (str	eam gauge, monitor	ring well, aerial photos, previous inspec	tions), if available:					
Remarks:								
Wetland hydrolog	ıy absent.							

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Han	cock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		State: Ohio	Sampling Point:	<u>1-S</u>
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2N R11E	SN31	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conc	ave, convex, none):	Convex	
Slope (%): 2 Lat: 41.087166	Long: -83.6482		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	oresent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locat	ions, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present?	Yes No	
Hydric Soil Present?	Yes No	Is the Sampled Area
Wetland Hydrology Present?	Yes 🖌 No	within a Wetland? Yes <u>V</u> No
Remarks:		

PEM. ORAM score of 12. Disturbed by adjacent land use.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2 (A)	
2.					
3				Total Number of Dominant	
				Species Across All Strata: <u>2</u> (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100 (A/B)	
15 ft r		= Total Cov	/er		
Sapling/Shrub Stratum (Plot size: 15 11)				Prevalence Index worksheet:	
1				Total % Cover of:Multiply by:	
2				OBL species <u>80</u> x 1 = <u>80</u>	
3.				FACW species $0 x 2 = 0$	
4				FAC species 20 x 3 = 60	
				EACLI species 0 $x = 0$	
5				$\frac{1}{1}$	
Horb Stratum (Plot size: 5 ft r		= Total Cov	ver	UPL species $\frac{0}{100}$ $x = \frac{0}{140}$	
Typha angustifolia	80	~	OBI	Column Totals: 100 (A) 140 (B)	
				D L L D H 1 1 1	
2. Apocynum cannabinum		<u> </u>	FAC	Prevalence Index = B/A = <u>1.40</u>	
3				Hydrophytic Vegetation Indicators:	
4				1 - Rapid Test for Hydrophytic Vegetation	
5.				✓ 2 - Dominance Test is >50%	
6				✓ 3 - Prevalence Index is $\leq 3.0^{1}$	
7				4 - Morphological Adaptations ¹ (Provide supporting	
7				data in Remarks or on a separate sheet)	
8				Problematic Hydrophytic Vegetation ¹ (Explain)	
9					
10				¹ Indicators of hydric coil and watland hydrology must	
20 # -	100%	= Total Cov	ver	be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size: 30 ft r)					
1				Hydrophytic	
2				Vegetation	
		= Total Cov	/er	Present? Yes No	
Remarks: (Include photo numbers here or on a separate s	sheet.)			1	
Hydrophytic vegetation present.					

Profile Des	cription: (Describe to	the depth	needed to docu	ument the	indicator	or confir	m the absence	of indicators.)	
Depth	Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks	
0 - 20	10YR 2.5/1	95 1	0YR 5/6	5	<u> </u>	M	Silty Clay		
-									
							·		
-									
-									
-									
_									
Turney 0-0		tion DM-D	advaad Matrix N				21 agetien	- DI-Dava Lining, M-Matrix	
Type: C=C	Indicators:	etion, RIVI=R	educed Matrix, N	15=Maske	a Sand Gr	ains.	Location	1: PL=Pore Lining, M=Matrix.	
Listere			Candu	Claused	atrix (CA)		Coost	Proirie Badey (A16)	
Histoso	ninedon (A2)		Sandy	Redox (S	atrix (54)		Coast	Surface (S7)	
Black H	istic (A3)		Strippe	ed Matrix (5) (S6)		Dark C	Janganese Masses (F12)	
Hydroge	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very S	Shallow Dark Surface (TF12)	
Stratifie	d Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other (Explain in Remarks)		
2 cm M	uck (A10)		Deplet	ed Matrix	(F3)				
Deplete	d Below Dark Surface	(A11)	🖌 Redox	Dark Surf	face (F6)				
Thick D	ark Surface (A12)		Deplet	ed Dark S	urface (F7)	³ Indicators	s of hydrophytic vegetation and	
Sandy N	Sandy Mucky Mineral (S1) Redox Depressions (F8)				wetlan	d hydrology must be present,			
5 cm M	ucky Peat or Peat (S3)						unless	disturbed or problematic.	
-	Layer (if observed):								
Type:			_				Hydric Soil	Present? Yes 🖌 No	
Depth (in	ches):		_				- injunio com		
Remarks:									
Hydric	soil prosent								
inyunc	son present.								
YDROLC	GY								
Vetland Hy	drology Indicators:								
۔ Primarv Indi	cators (minimum of on	e is required	I: check all that a	(vlgg			Seconda	ary Indicators (minimum of two required	
Surface	Water (A1)		Water-St	ained Lea	ves (B9)		Sur	face Soil Cracks (B6)	
High W	ater Table (A2)		Aquatic F	auna (B1)	3)		Dra	inage Patterns (B10)	
✓ Saturati	$\frac{1}{2} = \frac{1}{2} - \frac{1}$					Drv	-Season Water Table (C2)		
Water M	Aarks (B1)		Hvdroger	n Sulfide C)dor (C1)		Cra	vfish Burrows (C8)	
Sedime	nt Deposits (B2)		Oxidized	Rhizosph	eres on Liv	ina Roots	(C3) Sat	uration Visible on Aerial Imagery (C9)	
Drift De	posits (B3)		Presence	of Reduc	ed Iron (C	4)	Stu	nted or Stressed Plants (D1)	
Algal M	at or Crust (B4)		Recent Ir	on Reduc	tion in Tille	d Soils (C	6) Geo	omorphic Position (D2)	
Iron De	posits (B5)		Thin Muc	k Surface	(C7)		✓ FAC	C-Neutral Test (D5)	
Inundat	ion Visible on Aerial Im	ageny (B7)	Gauce or		(J)		<u> </u>		

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30				
Applicant/Owner: AEP	State: Ohio	Sampling Point: <u>1-S/T UPL</u>				
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11E SN31					
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, n	one): None				
Slope (%): 0 Lat: 41.087043	Long:83.648641	Datum: WGS 84				
Soil Map Unit Name: _SkB	NWI cla	ssification: <u>N/A</u>				
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🗾 No (If no, explair	in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstand	es" present? Yes 🔽 No				
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any a	nswers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transe	ects, important features, etc.				
Hydrophytic Vegetation Present? Yes No						

Remarks:							
Wetland Hydrology Present?	Yes	No	~	within a Wetland?	Yes	No	<u> </u>
Hydric Soil Present?	Yes	No	<u> </u>	is the Sampled Area			
Hydrophytic Vegetation Present?	Yes	NO	<u> </u>				

Upland point for Wetland 1-S and Wetland 1-T. Disturbed by adjacent land use.

00 (Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				
2				Total Number of Dominant
S				Species Across All Strata: <u>5</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.3 (A/B)
45 6		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
2				EACW species 0 $x_2 = 0$
3				
4				FAC species 20 $x^3 = 00$
5				FACU species 80 x 4 = 320
- 6		= Total Cov	ver	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100 (A) 380 (B)
1. Cirsium arvense	40	<u> </u>	FACU	
2. Festuca rubra	30	<u> </u>	FACU	Prevalence Index = B/A = <u>3.80</u>
3. Apocynum cannabinum	20	~	FAC	Hydrophytic Vegetation Indicators:
4. Dipsacus fullonum	10		FACU	1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6				3 - Prevalence Index is $≤3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
<i>I</i>				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				1. The standard standard structure of the st
•• 6	100%	= Total Cov	er	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless disturbed of problematic.
1				Hydrophytic
2				Vegetation
far		- Total Car		Present? Yes No V
Demorkey (Include whete numbers here or concrete a	hoot)	- 10tai C0\		
Remarks: (include photo numbers here or on a separate s	neet.)			
Hydrophytic vegetation absent.				

Profile Des	cription: (Describe	to the dept	h needed to document the indicator or con	firm the absen	ce of indicators.)
Depth	Matrix		Redox Features		
(inches)	Color (moist)	<u>%</u> _	<u>Color (moist)</u> <u>%</u> <u>Type'</u> Loc	Texture	Remarks
0-8	10YR 5/3	100		Silty Cla	У
-					
-					
-					
-					
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS=Masked Sand Grains.	² Locati	on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:			Indicato	rs for Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy Gleyed Matrix (S4)	Coa	st Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy Redox (S5)	Dar	k Surface (S7)
Black H	istic (A3)		Stripped Matrix (S6)	Iron	-Manganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy Mucky Mineral (F1)	Ver	y Shallow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy Gleyed Matrix (F2)	Oth	er (Explain in Remarks)
2 cm M	uck (A10)		Depleted Matrix (F3)		
Deplete	d Below Dark Surfac	æ (A11)	Redox Dark Surface (F6)	2	
Thick D	ark Surface (A12)		Depleted Dark Surface (F7)	Indicat	ors of hydrophytic vegetation and
Sandy M	Mucky Mineral (S1)	•	Redox Depressions (F8)	wetl	and hydrology must be present,
<u> </u>	ucky Peat or Peat (S	3)		unle	ess disturbed or problematic.
Tuna	ravel				
Type: G				Hydric S	oil Present? Yes No 🗸
Depth (in	iches): <u>o</u>				
Remarks.					
Hydric	soil absent.				
HYDROLC	GY				
Wetland Hy	drology Indicators:				
Primary Indi	cators (minimum of o	one is require	ed; check all that apply)	Secor	ndary Indicators (minimum of two required)
Surface	Water (A1)		Water-Stained Leaves (B9)	S	urface Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fauna (B13)	D	rainage Patterns (B10)
Saturati	ion (A3)		True Aquatic Plants (B14)	D	ry-Season Water Table (C2)
Water M	/arks (B1)		Hydrogen Sulfide Odor (C1)	c	rayfish Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized Rhizospheres on Living Ro	ots (C3) S	aturation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence of Reduced Iron (C4)	S	tunted or Stressed Plants (D1)

____ Recent Iron Reduction in Tilled Soils (C6)

____ Thin Muck Surface (C7)

Yes _____ No ____ Depth (inches): ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

 Yes
 No
 ✓
 Depth (inches):

__ No ___ Depth (inches): ___

Remarks:

Wetland hydrology absent.

Inundation Visible on Aerial Imagery (B7)
 Gauge or Well Data (D9)
 Sparsely Vegetated Concave Surface (B8)
 Other (Explain in Remarks)

Yes ____

____ Algal Mat or Crust (B4)

___ Iron Deposits (B5)

Field Observations:

Surface Water Present?

(includes capillary fringe)

Water Table Present?

Saturation Present?

___ Geomorphic Position (D2)

Wetland Hydrology Present? Yes _____ No ____

___ FAC-Neutral Test (D5)
Project/Site: AEP Fostoria to Lima	City/County: Fostoria/Hancock	Sampling Date:	2022-06-29
Applicant/Owner: AEP	State: Ohio	Sampling Point:	1-SP-002
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R12E	SN11	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None	
Slope (%): 0 Lat: 41.144991	Long: -83.450541	Datum: WGS 8	84
Soil Map Unit Name: Blg1A1	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" p	present? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Not a wetland. Bank of ditch line.

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				
5.				Percent of Dominant Species
		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species 0 x 1 = 0
3.				FACW species 0 x 2 = 0
4				FAC species 0 x 3 = 0
5				FACU species $100 \times 4 = 400$
		- Total Ca		$\frac{1}{100} \text{ species } 0 specie$
Herb Stratum (Plot size: 5 ft r)		- 10(a) COV	/ei	Column Totals: 100 (A) 400 (B)
1. Festuca rubra	50	~	FACU	
2. Cirsium arvense	20	~	FACU	Prevalence Index = $B/A = 4.00$
3. Trifolium pratense	20	~	FACU	Hydrophytic Vegetation Indicators:
4. Taraxacum officinale	10		FACU	1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total Cov	/er	be present, unless disturbed or problematic.
1				Uudeenbutie
2				Vegetation
£		- Total Cox		Present? Yes No V
Remarks: (Include photo numbers here or on a separate s	heet)	- 10(a) 00(
Nomano, (molude proto numbers here of off a separate s				
Hydrophytic vegetation absent.				

Profile Desc	cription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confir	m the absence of	indicators.)	
Depth	Matrix		Red	ox Feature	es1		_		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc	Texture	Remarks	
0-8	10YR 5/3	97	10YR 5/6	3	<u> </u>	<u>M</u>	Silty Clay		
-									
-									
——									
¹ Type: C=C	oncentration. D=Der	letion. RM	=Reduced Matrix, M	– IS=Maske	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix,	
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils	3
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		Coast Pra	irie Redox (A16)	
Histic E	pipedon (A2)		Sandy	Redox (S	5)		Dark Surfa	ace (S7)	
Black H	istic (A3)		Strippe	d Matrix (S6)		Iron-Mang	anese Masses (F12)	
Hydroge	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very Shal	low Dark Surface (TF12)	
Stratifie	d Layers (A5)		Loamy	Gleyed N	latrix (F2)		Other (Ex	plain in Remarks)	
2 cm Mi	uck (A10)		Deplete	ed Matrix	(F3)				
Deplete	d Below Dark Surfac	ce (A11)	Redox	Dark Surf	ace (F6)		3		
Thick D	ark Surface (A12)		Deplete	ed Dark S	urface (F7)	Indicators of	hydrophytic vegetation and	
Sandy N	Aucky Mineral (S1)	2)	Redox	Depressio	ons (F8)		wetland hy	drology must be present,	
5 CM MI	LCKy Peat of Peat (S	3) •						sturbed or problematic.	
Tunor	ravel								
Denth (in							Hydric Soil Pre	esent? Yes No	, <u> </u>
Depth (in	cnes): o								
Remarks:									
Hydric	soil absent.								
HYDROLO	GY								
Wetland Hy	drology Indicators	:							
Primary Indi	cators (minimum of o	one is requ	ired; check all that a	pply)			Secondary	Indicators (minimum of two	required)
Surface	Water (A1)		Water-Sta	ained Lea	ves (B9)		Surface	e Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic F	auna (B13	3)		Drainag	ge Patterns (B10)	
Saturati	on (A3)		True Aqu	atic Plants	s (B14)		Dry-Sea	ason Water Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide C	dor (C1)		Crayfis	h Burrows (C8)	

- ____ Oxidized Rhizospheres on Living Roots (C3) ____ Saturation Visible on Aerial Imagery (C9)
- ___ Presence of Reduced Iron (C4) ___ Stunted or Stressed Plants (D1)

Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	bils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)	Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	✓ Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspec	tions), if available:
Remarks:		
Wetland hydrology absent.		

_ Sediment Deposits (B2)

___ Drift Deposits (B3)

Project/Site: AEP Fostoria to Lima		City/County	Fostoria/Ha	ncock		Sampling Date:	2022-06-29
Applicant/Owner: AEP				_ State:	Ohio	Sampling Point:	1-SP-003
Investigator(s): Beth Hollinden, Chris Daviss	on	Section, To	wnship, Range: _	OH01 [·]	T2N R12E	SN17	
Landform (hillslope, terrace, etc.): Flat		I	ocal relief (conc	ave, cor	nvex, none):	None	
Slope (%): 0 Lat: 41.130927		Long: -83	497738			Datum: WGS 8	34
Soil Map Unit Name: BIg1A1				N	WI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typica	I for this time of ye	ear? Yes	No	_ (If no,	explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology _	significantly	disturbed?	Are "Norm	nal Circu	mstances" p	resent? Yes	✓ No
Are Vegetation, Soil, or Hydrology _	naturally pr	oblematic?	(If needed	, explair	n any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site	map showing	g samplin	g point locat	ions, f	transects	, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes	No						
Hydric Soil Present? Yes	No	Is th	e Sampled Area	1		,	
Wetland Hydrology Present? Yes	No	with	in a Wetland?		Yes	No	
Remarks:							

Not a wetland. Bank of ditch line. Bordering agricultural field.

00 th	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				
5				Percent of Dominant Species
0		- Total Car		I nat Are OBL, FACW, or FAC: <u>0</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10tai C0V		Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				$\frac{1}{OBL \text{ species } 0} \frac{1}{\sqrt{1 = 0}}$
2				EACW species 0 $x_2 = 0$
3				FAC w species 0 $x^2 = 0$
4				FAC species 0 $x_3 = 0$
5				FACU species $\frac{90}{2}$ x 4 = $\frac{300}{2}$
5 ft r		= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: <u>510</u>)	50	~	FACU	Column Totals: <u>90</u> (A) <u>360</u> (B)
1. Disitaria historia	<u> </u>			D 1 1 D D 4 1 00
2. Digitaria bicornis	20		FACU	Prevalence Index = B/A = 4.00
3. Melilotus officinalis	20	<u> </u>	FACU	Hydrophytic Vegetation Indicators:
4. Zea mays	10			1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
ə				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100 /₀	= Total Cov	er	be present, unless disturbed or problematic.
1				Hydrophytic Vegetation
2				Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	neet.)			
Hydrophytic vegetation absent.				

Depth	Matrix	Redox Features	The absence of indicators.
(inches)	Color (moist) %	<u>Color (moist)</u> <u>%</u> <u>Type¹</u> Loc ²	Texture Remarks
0 - 20	10YR 5/3 100		Silty Clay
_			
-			
-			
-			
-			
-			
Type: C=Co	oncentration, D=Depletion, R	M=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators:		Indicators for Problematic Hydric Soils":
_ Histosol	(A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Ep	bipedon (A2)	Sandy Redox (S5)	Dark Surface (S7)
_ Black HI	STIC (A3) $(A4)$	Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Stratified	1 avers (A5)	Loamy Gleved Matrix (F2)	Other (Explain in Remarks)
_ 0.100.000	ick (A10)	Depleted Matrix (F3)	
_ Depleted	d Below Dark Surface (A11)	Redox Dark Surface (F6)	
_ Thick Da	ark Surface (A12)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
_ 5 cm Mu	icky Peat or Peat (S3)		unless disturbed or problematic.
estrictive I	Layer (if observed):		
Туре:			
Depth (ind	ches):		Hydric Soil Present? Yes No
emarks:			
ludria (a il abaant		
ayaric s	soli absent.		
	CV.		
etiand Hyd	arology indicators:		Cocondon Indicators (minimum of two rows
nmary indic	cators (minimum of one is rec		Secondary Indicators (minimum of two requ
_ Surface	Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
_ High Wa	ater Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
_ Saturatio	on (A3)	True Aquatic Plants (B14)	Dry-Season Water Table (C2)
_ Water M	larks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
_ Sedimer	nt Deposits (B2)	Oxidized Rhizospheres on Living Roots	(C3) Saturation Visible on Aerial Imagery (C
_ Drift Dep	posits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
_ Algal Ma	at or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	6) Geomorphic Position (D2)
_ Iron Dep	posits (B5)	Thin Muck Surface (C7)	FAC-Neutral Test (D5)
_ Inundati	on Visible on Aerial Imagery	(B7) Gauge or Well Data (D9)	
_ Sparsely	Vegetated Concave Surface	e (B8) Other (Explain in Remarks)	

Field Observations:

Surface Water Present?

Yes

No

✓

Depth (inches):

Saturation Present?

Yes

No

✓

Depth (inches):

Wetland Hydrology Present? Yes
No
No
✓
Depth (inches):
✓
Wetland Hydrology Present? Yes
No
✓
Mo
Ø
Mo

Project/Site: AEP Fostoria to Lima	City/County: Fostoria/Han	ncock	Sampling Date:	2022-06-29
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-SP-004
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	DH01 T2N R12E	SN18	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conca	ave, convex, none):	Convex	
Slope (%): 2 Lat: 41.123327	Long: -83.522921		Datum: WGS 8	34
Soil Map Unit Name: SOA		NWI classific	ation: R2UBH	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norma	al Circumstances" p	oresent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed,	explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland. Hillslope to stream.

00.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				
5.				Percent of Dominant Species
		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2.				OBL species 0 x 1 = 0
3.				FACW species _40 x 2 = _80
4				FAC species $20 \times 3 = 60$
5				FACU species 40 x 4 = 160
···		= Total Cov		UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)		- 10tai 00v		Column Totals: 100 (A) 300 (B)
1. Bromus inermis	30	~	FACU	
2. Phalaris arundinacea	30	~	FACW	Prevalence Index = B/A = 3.00
3. Eutrochium purpureum	20	~	FAC	Hydrophytic Vegetation Indicators:
4 Asclepias syriaca	10		FACU	1 - Rapid Test for Hydrophytic Vegetation
5 Urtica dioica	10		FACW	✓ 2 - Dominance Test is >50%
6				3 - Prevalence Index is $\leq 3.0^{1}$
7				4 - Morphological Adaptations ¹ (Provide supporting
0				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total Cov	er	be present, unless disturbed or problematic.
1				Hydrophytic Vegetation
۷				Present? Yes No
Pomarka: (Include photo numbers here or on a constate a	hoot)		er	
remarks. (include proto numbers here of on a separate s	neet.)			
Hydrophytic vegetation present.				

	rintian. (Deceribe to	a tha danti	- nooded to doou	mont the	indicator	on confin	n the choose	efindicators)	
Profile Desc	ription: (Describe to	o the depti	n needed to docu	ment the	Indicator	or confiri	m the absence	of indicators.)	
Depth (inches)	Color (moist)	%	Color (moist)	<u>ox Featur</u> %	Type ¹		Texture	Remarks	
0 - 20	10VP 6/3	<u> </u>		10	_ <u>- ,,pc</u>	 M	Silty Clay Loam	Kemanas	
	1011 0/5								
-									
-									
-									
				_	_				
							·		
-									
¹ Type: C=Ce	oncentration, D=Deple	etion, RM=I	Reduced Matrix, N	IS=Maske	ed Sand Gr	ains.	² Location	n: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy	Gleyed N	/atrix (S4)		Coast	Prairie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy	Redox (S	65)		Dark S	Surface (S7)	
Black Hi	stic (A3)		Strippe	d Matrix	(S6)		Iron-M	langanese Masses (F12)	
Hydroge	en Sulfide (A4)		Loamy	Mucky M	lineral (F1)		Very S	Shallow Dark Surface (TF12)	
Stratified	d Layers (A5)		Loamy	Gleyed N	Matrix (F2)		Other	(Explain in Remarks)	
2 cm ML	ICK (A1U) d Rolow Dark Surface	(A11)	Depleti	Dork Sur	(F3) face (E6)				
Depleted	ark Surface (A12)	(ATT)	Redux	ed Dark Su	Surface (F0))	³ Indicators	s of hydrophytic vegetation and	
Sandy M	lucky Mineral (S1)		Beplet	Depressi	ions (F8)	/	wetland hydrology must be present.		
5 cm Mu	icky Peat or Peat (S3))					unless	disturbed or problematic.	
Restrictive	Layer (if observed):	-							
Type:									
Depth (in	ches):						Hydric Soil	Present? Yes No	
Remarks:	,								
	.								
Hydric s	soil absent.								
HYDROLO	GY								
Wetland Hy	drology Indicators:								
Primary India	cators (minimum of on	e is require	ed; check all that a	pply)			Seconda	ary Indicators (minimum of two required)	
Surface	Water (A1)		Water-Sta	ained Lea	ves (B9)		Sur	face Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Dra	inage Patterns (B10)	
Saturatio	on (A3)		True Aqu	atic Plant	s (B14)		Dry	-Season Water Table (C2)	
Water M	larks (B1)		Hydroger	n Sulfide (Odor (C1)		Cra	yfish Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Liv	ing Roots	(C3) Sat	uration Visible on Aerial Imagery (C9)	
Drift Dep	posits (B3)		Presence	of Reduc	ced Iron (C	4)	Stu	nted or Stressed Plants (D1)	
Algal Ma	at or Crust (B4)		Recent In	on Reduc	tion in Tille	d Soils (C	6) Geo	omorphic Position (D2)	
Iron Dep	oosits (B5)		Thin Muc	k Surface	e (C7)		FAC	C-Neutral Test (D5)	
Inundati	on Visible on Aerial In	nagery (B7)) Gauge or	Well Dat	a (D9)				
Sparsely	Vegetated Concave	Surface (B	8) Other (Ex	plain in R	Remarks)				
Field Obser	vations:								

Surface Water Present?
Yes _____ No

Water Table Present?
Yes _____ No

Yes _____ No
Depth (inches): ______

Saturation Present?
Yes _____ No

Yes _____ No
Depth (inches): ______

Wetland Hydrology Present?
Yes _____ No

(includes capillary fringe)
Depth (inches): ______

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hance	ock	Sampling Date:	2022-06-30
Applicant/Owner: AEP		_{State:} Ohio	Sampling Point:	1-SP-005
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: O	H01 T2N R11E	SN27	
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	e, convex, none):	None	
Slope (%): 0 Lat: 41.106101	Long: -83.578203		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	cation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal	Circumstances" p	present? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, e	explain any answe	ers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No V Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland. Riparian corridor of stream.

20.41	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
4				
T				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Sopling/Shruh Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
1				
2				OBL species 0 $x 1 = 0$
3				FACW species $0 \times 2 = 0$
4				FAC species <u>10</u> x 3 = <u>30</u>
5				FACU species 80 x 4 = 320
		= Total Cov	er	UPL species $0 x 5 = 0$
Herb Stratum (Plot size: 5 ft r)				Column Totals: 90 (A) 350 (B)
1. Bromus inermis	30	~	FACU	
2. Cirsium arvense	30	~	FACU	Prevalence Index = B/A = 3.89
3. Cornus florida	20	~	FACU	Hydrophytic Vegetation Indicators:
4. Rubus occidentalis	10			1 - Rapid Test for Hydrophytic Vegetation
5. Sambucus nigra	10		FAC	2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
ð				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Weedy Vine Stratum (Plot size: 30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody vine Stratum (Flot size)				
1				Hydrophytic
2				Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

OOIL								
Profile Desc	cription: (Describe	to the de	oth needed to docu	ment the	indicator	or confir	m the absence o	of indicators.)
Depth	Matrix		Red	ox Featur	es1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0 - 20	10YR 5/3	97	10YR 6/3	_ <u>3</u>	<u> </u>	<u>M</u>	Silty Clay Loam	
-								
-								
-							· ·	
-								
	oncentration D=Der	letion RM	-Reduced Matrix M		Cr	aine	² Location:	PI = Pore Liping M=Matrix
Hydric Soil	Indicators:				u Sanu Gi	an15.	Indicators f	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Glaved M	latrix (SA)		Coast F	
Histic Fr	nipedon (A2)		Sandy	Redox (S	(04)		Dark Si	Inface (S7)
Black Hi	istic (A3)		Strippe	d Matrix	(S6)		Iron-Ma	inganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky M	lineral (F1)		Very Sh	nallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy	Gleyed N	Aatrix (F2)		Other (I	Explain in Remarks)
2 cm Mu	uck (A10)		Deplet	ed Matrix	(F3)			
Depleted	d Below Dark Surfac	æ (A11)	Redox	Dark Sur	face (F6)			
Thick Da	ark Surface (A12)		Deplet	ed Dark S	Surface (F7)	Indicators	of hydrophytic vegetation and
Sandy M	Aucky Mineral (S1)	•	Redox	Depressi	ons (F8)		wetland	hydrology must be present,
5 cm Mu	ICKY Peat or Peat (S	3)					unless o	disturbed or problematic.
Restrictive	Layer (II observed)	•						
Type:	chec):						Hydric Soil I	Present? Yes No
Deptin (ind	cites).							
Remarks.								
Hydric s	soil absent.							
-								
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary Indic	cators (minimum of o	one is requ	ired; check all that a	pply)			Secondar	y Indicators (minimum of two required)
Surface	Water (A1)		Water-St	ained Lea	ves (B9)		Surfa	ce Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drain	age Patterns (B10)
Saturatio	on (A3)		True Aqu	atic Plant	s (B14)		Dry-S	Season Water Table (C2)
Water M	larks (B1)		Hydroger	n Sulfide (Odor (C1)		Cray	fish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Liv	ing Roots	s (C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	of Reduc	ed Iron (C	4)	Stunt	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ir	on Reduc	tion in Tille	d Soils (C	6) Geor	norphic Position (D2)
Iron Dep	oosits (B5)		Thin Muc	k Surface	(C7)		FAC-	Neutral Test (D5)
Inundati	on Visible on Aerial	Imagery (E	(7) Gauge or	Well Dat	a (D9)			
Sparsely	vVegetated Concav	e Surface	(B8) Other (Ex	plain in R	(emarks)			
Field Obser	vations:							
Surface Wate	er Present? Y	'es	No Depth (in	nches):		_		
	D	,						

 Water Table Present?
 Yes _____ No v
 Depth (inches): ______

 Saturation Present?
 Yes _____ No v
 Depth (inches): ______

 (includes capillary fringe)
 No v
 Depth (inches): ______

 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

 Remarks:

 Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Ha		Sampling Date:	2022-07-02			
Applicant/Owner: AEP		State: _C	Dhio	Sampling Point:	1-SP-008		
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range	<u>OH01 T1</u>	IS R9E SI	N1			
Landform (hillslope, terrace, etc.): Flat	Local relief (cor	ncave, conve	ex, none):	None			
Slope (%): 0 Lat: 40.985614	Long: -83.774341			Datum: WGS 8	34		
Soil Map Unit Name: MCA		NV	VI classifica	ation: R2UBH			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗹 No 🔜	(If no, ex	plain in Re	emarks.)			
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Nor	mal Circums	stances" pr	resent? Yes	No		
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If neede	ed, explain a	ny answer	s in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present?	Yes	No 🖌			
Hydric Soil Present?	Yes	No 🔽	Is the Sampled Area		
Wetland Hydrology Present?	Yes	No _	within a Wetland?	Yes	No
Remarks:					

Not a wetland. Mown yard bordering riparian corridor of stream.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				TANK A CONTRACTOR
3				For the second s
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 50 (A/B)
15 ft r		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 13111)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
3.				FACW species 10 $x_2 = 20$
A.				EAC species 10 x 3 = 30
4	·			$\frac{1}{10000000000000000000000000000000000$
5	·			FACO species $\frac{1}{2}$ \frac
5 ft r		= Total Cov	/er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: <u>5111</u>)	75		EACU	Column Totals: 110 (A) 410 (B)
	/5		FACO	0.70
2. Cirsium arvense	15		FACU	Prevalence Index = B/A = 3.73
3. Toxicodendron radicans	10		FAC	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
3	·			$3 - \text{Prevalence Index is } \leq 3.0^{1}$
в	·			• Membels rise! Adaptations ¹ (Dravide supportion
7	·			data in Remarks or on a separate sheet)
8				Broblemetic Hydrophytic Veretation ¹ (Evaluit)
9				
10.				
	100%	= Total Cox		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		- 10(a) 00(be present, unless disturbed or problematic.
1 Vitis riparia	10	~	FACW	Under school a
1. <u> </u>	·			Hydropnytic Vegetation
2	10%			Present? Yes No
	10%	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
	,			

Profile Description: (Describe to the depth needed to document the indicator or c	onfirm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ L	oc ² Texture Remarks
0 - 20 10YR 4/3 100	Silty Clay Loam
· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	
·	
·	
¹ Type: C=Concentration D=Depletion PM=Reduced Matrix MS=Masked Sand Grains	² Location: PL=Pore Liping M=Metrix
Hype: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grans	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Gleved Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10) Depleted Matrix (F3)	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	3
Thick Dark Surface (A12) Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Feat of Feat (55)	unless disturbed or problematic.
Type	Hydric Soil Present? Yes No
Remarks:	
Hydric soil absent.	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required: check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	bils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No 🖌 Depth (inches):	Wetland Hydrology Present? Yes No
(in alundary and illows friends)	

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock		Sampling Date:	2022-07-02
Applicant/Owner: AEP	Stat	_{e:} Ohio	Sampling Point:	1-SP-009
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OHO	1 T1S R9E S	6N1	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, o	onvex, none):	Convex	
Slope (%): 2 Lat: 40.984367	Long: -83.775359		Datum: WGS 8	34
Soil Map Unit Name: MCA		NWI classific	cation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If n	o, explain in R	(emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Cir	cumstances" p	oresent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, expl	ain any answe	ers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes No	<u> </u>
Remarks:				

Not a wetland. Riparian corridor of stream.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 4 (A)
2				
3				I otal Number of Dominant Species Across All Strata: 4 (B)
۵				
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
n in rou to not rout in 15 ft r		= Total Cov	/er	Dravalance Index warksheet:
Sapling/Shrub Stratum (Plot size:)	15			Prevalence index worksneet:
1. Cornus amomum	15		FACW	Total % Cover of:Multiply by:
2. Acer negundo	5	<u> </u>	FAC	OBL species 0 x 1 = 0
3				FACW species 105 x 2 = 210
4				FAC species 5 $x_3 = 15$
5				FACU species 20 x 4 = 80
J	20%			$\frac{1}{1}$
Herb Stratum (Plot size: 5 ft r)	20%	= Total Cov	/er	$\frac{120}{120}$
Phalaris arundinacea	80	~	FACW	Column Totals: 130 (A) 303 (B)
Ambrosia artemisiifolia	10		EACU	Prevalence Index = R/A = 2.35
2. Ambrosia arternismona	10			
3. Bromus inermis	10		FACU	Hydrophytic vegetation indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
20 ft r	100%	= Total Cov	/er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 50111)	4.0		FA 014/	
1. Vitis riparia	10	<u> </u>	FACW	Hydrophytic
2				Vegetation
	10%	= Total Cov	/er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
	-			
Hydrophytic vegetation present.				

Profile Desc	ription: (Describe	to the depth n	eeded to docum	nent the i	ndicator	or confirm	the absence of ir	ndicators.)	
Depth	Matrix		Redox	Features	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 20	10YR 4/3	100					Sandy Clay Loam		
-									
-									
———									
-									
¹ Type: C=Co	oncentration, D=Dep	pletion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL	=Pore Lining, M=Mat	rix.
Hydric Soil I	ndicators:						Indicators for	Problematic Hydric	Soils":
Histosol	(A1)		Sandy G	Bleyed Ma	trix (S4)		Coast Prair	rie Redox (A16)	
Block Li	olpedon (A2)		Sandy R	edox (S5))		Dark Surfa		
Hvdroge	n Sulfide (A4)			Jucky Min	peral (F1)		Verv Shallo	w Dark Surface (TF1	2)
Stratified	Lavers (A5)		Loamy C	Gleved Ma	atrix (F2)		Other (Exp	lain in Remarks)	
2 cm Mu	ck (A10)		Depleted	d Matrix (F	F3)			,	
Depleted	Below Dark Surfac	ce (A11)	Redox D	ark Surfa)	ice (F6)				
Thick Da	rk Surface (A12)		Depleted	d Dark Su	rface (F7)		³ Indicators of h	ydrophytic vegetation	and
Sandy M	lucky Mineral (S1)	2	Redox D	epression)	ns (F8)		wetland hyd	drology must be prese	ent,
5 cm Mu	cky Peat or Peat (S						uniess dist	urbed or problematic.	
Type	ayer (il observed)	-							
Dopth (inc			-				Hydric Soil Pres	sent? Yes	No
Bomarke:			-						
r ternarito.									
Hydric s	soil absent.								
HYDROLO	GY								
Wetland Hyd	rology Indicators	:							
Primary Indic	ators (minimum of	one is required;	check all that ap	ply)			Secondary Ir	ndicators (minimum of	two required)
Surface	Water (A1)		Water-Stai	ned Leave	es (B9)		Surface	Soil Cracks (B6)	
High Wa	ter Table (A2)		Aquatic Fa	una (B13))		Drainage	e Patterns (B10)	
Saturatio	on (A3)		True Aquat	tic Plants	(B14)		Dry-Sea	son Water Table (C2)	
Water M	arks (B1)		Hydrogen S	Sulfide Oc	dor (C1)		Crayfish	Burrows (C8)	
Sedimer	t Deposits (B2)		Oxidized R	hizosphe	res on Livi	ng Roots	(C3) Saturatio	on Visible on Aerial Im	agery (C9)
Drift Dep	oosits (B3)		Presence of the second seco	of Reduce	ed Iron (C4)	Stunted	or Stressed Plants (D	1)
Algal Ma	t or Crust (B4)		Recent Iron	n Reductio	on in Tilleo	d Soils (C6	6) Geomor	phic Position (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface (C7)		FAC-Ne	utral Test (D5)	
	on Visible on Aerial	Imagery (B7)	Gauge or v	vell Data	(D9)				
Sparsely	vegetated Concav	e Sunace (Bo)	Other (Exp	ain in Re	marks)				
Surface Wet	r Dresent?		Donth (inc.)	shee).					
Water Table		/oc No	Depth (inc	hes).		-			
Seturation D		(oo N-	Depth (Inc	hes):		-	and Hudgelees, De	ananto Var	
(includes car	esent?	res No _	Depth (inc	nes):			and hydrology Pro	esent? Yes	
Describe Red	corded Data (stream	n gauge, monito	ring well, aerial p	hotos, pro	evious ins	pections),	if available:		
Remarks:									

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: _	2022-07-02
Applicant/Owner: AEP	State: Ohio	Sampling Point:	1-SP-010
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1S R9E S	SN12	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	Convex	
Slope (%): 2 Lat: 40.979155	Long: -83.78045	Datum: WGS 8	4
Soil Map Unit Name: MCA	NWI classific	cation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" p	oresent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	ers in Remarks.)	
	· · · · · · · · · · · · · · · · · · ·	in a stant fo	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes No	
Remarks:			

Not a wetland. Riparian corridor of stream.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Deminent
3				I otal Number of Dominant Species Across All Strata: 2 (B)
A.				
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
9		= Total Cov	/er	Dravalance Index warksheet:
Sapling/Shrub Stratum (Plot size:)				Prevalence index worksneet:
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
3				FACW species 100 x 2 = 200
4				FAC species $0 \times 3 = 0$
5				FACIL species 10 $x = 40$
5	·			$\frac{1}{1}$
Herb Stratum (Plot size: 5 ft r)		= Total Cov	/er	$\frac{110}{110}$
Phalaris arundinacea	90	~	FACW	Column Totals: (A) (A) (B)
Bromus inermis	5		EACU	Provisional Index = P/A = 2.18
	- 5		FACO	
3. Dipsacus fulionum	. <u> </u>		FACU	Hydrophytic Vegetation Indicators:
4				✓ 1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7	·			4 - Morphological Adaptations ¹ (Provide supporting
·	·			data in Remarks or on a separate sheet)
8	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10				¹ Indicators of hydric soil and wetland hydrology must
20.4 -	100%	= Total Cov	/er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)				
1. Vitis riparia	10	<u> </u>	FACW	Hydrophytic
2				Vegetation
	10%	= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate	sheet.)			1
· · · · · · · · · · · · · · · · · · ·	,			
Hydrophytic vegetation present.				

Profile Des	cription: (Describe	to the de	pth needed to docu	ment the	e indicator	or confirm	m the absence of i	ndicators.)
Depth (inchos)	Matrix	0/	Red	ox Featur	Tuno ¹	1 cc ²	Toxturo	Pomorko
		07		- <u>70</u>				Remarks
0-8	1018 0/3	97	1018 5/6					
-								
-								
				_	_			
-								
-								
¹ Type: C=C	oncentration, D=Dep	letion, RM	//=Reduced Matrix, N	IS=Maske	ed Sand G	rains.	² Location: Pl	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy	Gleyed N	Aatrix (S4)		Coast Prai	rie Redox (A16)
Histic E	pipedon (A2)		Sandy	Redox (S	65)		Dark Surfa	ce (S7)
Black H	istic (A3)		Strippe	ed Matrix	(S6)		Iron-Manga	anese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky N	lineral (F1)		Very Shall	ow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy	Gleyed N	Matrix (F2)		Other (Exp	lain in Remarks)
2 cm Mi	uck (A10) d Balani Dark Surfaa	- (Deplet	ed Matrix	(F3)			
Deplete	a Below Dark Surfac	e (A11)	Redox	Dark Sur	Tace (F6)	C)	³ Indicators of h	wdronbytic vogotation and
Thick D	Ark Sunace (Arz)		Depier	Depressi	ions (F8))	wetland by	drology must be present
5 cm Mi	ucky Peat or Peat (S	3)		Depressi	0113 (1 0)		unless dist	urbed or problematic
Restrictive	Laver (if observed)	:						
Type: G	ravel							_
Depth (in	ches): 8						Hydric Soil Pre	sent? Yes No
Remarks:	,							
Hydric	soil absent.							
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary Indi	cators (minimum of c	one is requ	uired; check all that a	(ylqq			Secondary In	ndicators (minimum of two required)
Surface	Water (A1)		Water-St	ained Lea	ves (B9)		Surface	Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drainag	e Patterns (B10)
Saturati	on (A3)		True Aqu	atic Plant	s (B14)		Dry-Sea	son Water Table (C2)
Water M	/arks (B1)		Hydroger	Sulfide (Odor (C1)		Cravfish	Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized	Rhizosph	eres on Li	ving Roots	(C3) Saturatio	on Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Redu	ced Iron (C	4)	Stunted	or Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Ir	on Reduc	tion in Tille	d Soils (C	6) Geomor	phic Position (D2)
Iron De	posits (B5)		Thin Muc	k Surface	e (C7)	,	FAC-Ne	utral Test (D5)

Wetland hydrology absent.

Inundation Visible on Aerial Imagery (B7)
 Gauge or Well Data (D9)
 Sparsely Vegetated Concave Surface (B8)
 Other (Explain in Remarks)

Yes _____ No ____ Depth (inches): ____

Yes _____ No ____ Depth (inches): ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Yes ____ No ____ Depth (inches): _____

Field Observations:

Saturation Present? (includes capillary fringe)

Remarks:

Surface Water Present?

Water Table Present?

Wetland Hydrology Present? Yes _____ No ____

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date:	2022-07-03
Applicant/Owner: AEP	State: Ohio	Sampling Point:	1-SP-011
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1S R9E S	SN15	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	Convex	
Slope (%): 2 Lat: 40.954185	Long: -83.816883	Datum: WGS 8	34
Soil Map Unit Name: SpA	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	present? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes No	
Remarks:				

Not a wetland. Riparian corridor of stream.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Deminent
3.				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species
5		- T-+-1 0		That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)			ver	Prevalence Index worksheet:
1 Fraxinus pennsylvanica	5	~	FACW	Total % Cover of: Multiply by:
1. <u> </u>				$\begin{array}{c} \hline \hline$
2				
3				FACtive species $\frac{100}{2}$ $\chi_2 = \frac{210}{2}$
4				FAC species 0 $x 3 = 0$
5				FACU species $10 x 4 = 40$
F 44 -	5%	= Total Co	ver	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 Tt r)	00			Column Totals: 115 (A) 250 (B)
1. Phalaris arundinacea	90	·	FACW	0.47
2. Bromus inermis	5		FACU	Prevalence Index = B/A = 2.17
3. Solidago canadensis	5		FACU	Hydrophytic Vegetation Indicators:
4				✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
ĥ				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
0	·			data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9	·	·		
10	4000/			¹ Indicators of hydric soil and wetland hydrology must
Weeter (Distained 30 ft r	100%	= Total Co	ver	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	10			
1. vius ripalia	10	· · · · · · · · · · · · · · · · · · ·	1 4010	Hydrophytic
2				Vegetation Present? Ves No
	10%	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

Profile Description	n: (Describe t	to the depth	needed to docum	ent the ir	ndicator	or confirm	the absence of i	indicators.)	
Depth	Matrix		Redox	Features				,	
(inches) Co	olor (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks	
0-20 10Y	′R 5/3	100					Sandy Clay Loam		
-									
-									
-									
—— —									
							2		
Type: C=Concent	tration, D=Dep	letion, RM=Re	educed Matrix, MS	=Masked	Sand Gra	ains.	Location: P	L=Pore Lining, M=Ma	ITIX.
	liois.		Sandy C	lound Moi	triv (CA)			Froblematic Hydric	30115 .
Histosol (AT)	n (A2)		Sandy G	edox (S5)	urix (54)		Coast Pra		
Black Histic (A	(A2)		Sanuy R	Matrix (S) 6)		Dark Surfa	ace (07) anese Masses (F12)	
Hydrogen Sulf	ide (A4)		Loamy M	Aucky Min	eral (F1)		Verv Shall	ow Dark Surface (TF1	(2)
Stratified Lave	rs (A5)		Loamy G	Bleved Ma	trix (F2)		Other (Exp	plain in Remarks)	
2 cm Muck (A1	10)		Depleted	d Matrix (F	-3)			,	
Depleted Below	w Dark Surface	e (A11)	Redox D	ark Surfa	ce (F6)				
Thick Dark Su	rface (A12)		Depleted	d Dark Su	rface (F7)		³ Indicators of	hydrophytic vegetation	1 and
Sandy Mucky I	Mineral (S1)		Redox D	epression	ns (F8)		wetland hy	drology must be pres	ent,
5 cm Mucky Pe	eat or Peat (S3	3)					unless dis	turbed or problematic	
Restrictive Layer	(If observed):								
Туре:			_				Hydric Soil Pre	sent? Yes	No 🖌
Depth (inches):			_						
Remarks:									
Hvdric soil	absent.								
HYDROLOGY									
Wetland Hydrolog	gy Indicators:								
Primary Indicators	(minimum of o	ne is required	; check all that ap	ply)			Secondary I	ndicators (minimum o	f two required)
Surface Water	(A1)		Water-Stain	ned Leave	es (B9)		Surface	Soil Cracks (B6)	
High Water Ta	ble (A2)		Aquatic Fa	una (B13)	1		Drainag	e Patterns (B10)	
Saturation (A3)		True Aquat	tic Plants ((B14)		Dry-Sea	ason Water Table (C2)
Water Marks (I	B1)		Hydrogen S	Sulfide Od	lor (C1)		Crayfish	n Burrows (C8)	
Sediment Dep	osits (B2)		Oxidized R	hizospher	es on Livi	ng Roots	(C3) Saturati	on Visible on Aerial Ir	nagery (C9)
Drift Deposits	(B3)		Presence of the second seco	of Reduce	d Iron (C4	·)	Stunted	or Stressed Plants (E)1)
Algal Mat or C	rust (B4)		Recent Iror	n Reductio	on in Tilleo	d Soils (C6	5) Geomo	rphic Position (D2)	
Iron Deposits ((B5)		Thin Muck	Surface (0	C7)		🖌 FAC-Ne	eutral Test (D5)	
Inundation Visi	ible on Aerial I	magery (B7)	Gauge or V	Vell Data	(D9)				
Sparsely Vege	etated Concave	Surface (B8)) Other (Exp	lain in Rei	marks)				
Field Observation	IS:								
Surface Water Pres	sent? Y	es No	Depth (inc	:hes):		-			
Water Table Prese	nt? Y	es No	Depth (inc	:hes):		_			
Saturation Present	? Y	es No	Depth (inc	:hes):		_ Wetl	and Hydrology Pr	resent? Yes	No
(includes capillary	tringe) 1 Data (stream	dalide monit	oring well seriel n	hotos pre	vioue ine	nections)	if available:		
Describe Recorded	a Data (Strediti	gauge, monit	oning weil, aerial p	notos, pre	1005 115	pecuona),	n avallable.		
Demerkei									
Remarks:									

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Hancock	Sampling Date: 2	022-07-03
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-	-SP-012
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1S R9E S	N21	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	Convex	
Slope (%): 2 Lat: 40.944028	Long: -83.831458	Datum: WGS 84	
Soil Map Unit Name: LbA	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" p	resent?Yes 🔽	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS Attack sits man showing		in a stant for	4

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area	
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes No
Remarks:			

Not a wetland. Riparian corridor of stream.

20 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 IT)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4.				
5				Percent of Dominant Species
· · · · · · · · · · · · · · · · · · ·				That Are OBL, FACW, or FAC: 00 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)			/er	Prevalence Index worksheet:
A Salix nigra	50	~	OBL	Total % Cover of: Multiply by:
				$\frac{1}{10000000000000000000000000000000000$
2				
3				FACW species 20 $x 2 = 40$
4				FAC species 20 x 3 = 60
5				FACU species <u>45</u> x 4 = <u>180</u>
	50%	= Total Cov	/er	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 135 (A) 330 (B)
1. Solidago canadensis	30	 ✓ 	FACU	
2. Rubus allegheniensis	15	 ✓ 	FACU	Prevalence Index = B/A = 2.44
3. Phalaris arundinacea	10		FACW	Hydrophytic Vegetation Indicators:
4. Toxicodendron radicans	10		FAC	1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
0				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
30 ft r	65%	= Total Cov	/er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 TTT)	40		F AO	
1. Smilax rotundifolia	10		FAC	Hydrophytic
2. Vitis riparia	_ <u>10</u>	<u> </u>	FACW	Vegetation
	20%	= Total Cov	/er	Present? fes No
Remarks: (Include photo numbers here or on a separate	sheet.)			
Hydrophytic vocatation present				
myulophyuc vegetation present.				

Profile Des	cription: (Describe	to the depth n	eeded to docur	nent the ir	ndicator	or confirr	n the absence of i	ndicators.)
Depth	Matrix		Redo	x Features	6			
(inches)	Color (moist)	%0	Color (moist)	%	Type'	Loc	Texture	Remarks
0 - 10	10YR 4/4	_ <u>100</u>					Sandy Loam	
-								
-								
-								
-								
-								
¹ Type: C=C	oncentration D=Der	letion RM=Rec	luced Matrix MS	. <u> </u>	Sand Gra	ains	² Location: PL	=Pore Lining M=Matrix
Hydric Soil	Indicators:			5-Maskea		anio.	Indicators for	Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy (Gleved Mat	trix (S4)		Coast Prair	ie Redox (A16)
Histic E	pipedon (A2)		Sandy F	Redox (S5))		Dark Surfa	ce (S7)
Black H	istic (A3)		Stripped	Matrix (S	6)		Iron-Manga	anese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy I	Mucky Min	eral (F1)		Very Shallo	ow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy (Gleyed Ma	trix (F2)		Other (Exp	lain in Remarks)
2 cm M	uck (A10)		Deplete	d Matrix (F	-3)			
Deplete	d Below Dark Surfac	ce (A11)	Redox [Dark Surfa	ce (F6)		2	
Thick D	ark Surface (A12)		Deplete	d Dark Su	rface (F7)		Indicators of h	ydrophytic vegetation and
Sandy M	Mucky Mineral (S1)	2)	Redox L	Depression	is (F8)		wetland hyd	drology must be present,
5 Cm Mi	Laver (if observed)							urbed or problematic.
Tuno: G	ravel	•						
Type. O							Hydric Soil Pres	sent? Yes No
Depth (In	icnes): 10							
Hydric	soil absent.							
HYDROLO	IGY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one is required;	check all that ap	(ylq			Secondary Ir	ndicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Leave	es (B9)		Surface	Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	una (B13)			Drainage	e Patterns (B10)
Saturati	on (A3)		True Aqua	tic Plants ((B14)		Dry-Sea	son Water Table (C2)
Water M	/arks (B1)		Hydrogen	Sulfide Od	lor (C1)		Crayfish	Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized F	Rhizospher	es on Liv	ing Roots	(C3) Saturatio	on Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Reduce	d Iron (C4	t)	Stunted	or Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Iro	n Reductio	on in Tille	d Soils (C	6) Geomor	phic Position (D2)
Iron De	posits (B5)		Thin Muck	Surface (0	C7)		FAC-Ne	utral Test (D5)
Inundat	ion Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)			
Sparse	y Vegetated Concav	e Surface (B8)	Other (Exp	lain in Rei	marks)			
Field Obser	rvations:				-			
Surface Wat	ter Present?	res No	Depth (inclusion)	ches):		_		
Water Table	Present?	res No	 Depth (inclusion) 	ches):		_		

.....

Remarks:

Saturation Present?

Wetland hydrology absent.

Yes _____ No ____ Depth (inches): ___

(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Wetland Hydrology Present? Yes _____ No __

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Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen		Sampling Date:	2022-07-04
Applicant/Owner: AEP	S	_{tate:} Ohio	Sampling Point:	1-SP-013
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OF	101 T1S R8E S	SN35	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave	, convex, none)	None	
Slope (%): 0 Lat: 40.905926	Long: -83.905007		Datum: WGS 8	34
Soil Map Unit Name: BIg1B1		NWI classific	cation: PFO1A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes 🔽 No (l	f no, explain in R	(emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal (Circumstances"	oresent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If needed, ex	plain any answe	ers in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland.

20 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 TT)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Celtis occidentalis	40	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Aesculus glabra	20	<u> </u>	FAC	Total Number of Dominant
_{3.} Juglans nigra	10		FACU	Species Across All Strata: 6 (B)
4.				()
5				Percent of Dominant Species
	70%	= Total Cov		That Are OBL, FACW, of FAC: 00.7 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 000		Prevalence Index worksheet:
1. Aesculus glabra	15	~	FAC	Total % Cover of:Multiply by:
2. Carya ovata	10	~	FACU	OBL species x 1 =
3.				FACW species $0 x 2 = 0$
4				FAC species 105 x 3 = 315
5				FACU species 60 $x 4 = 240$
···	25%	= Total Cov		UPL species $\overline{0}$ x 5 = $\overline{0}$
Herb Stratum (Plot size: 5 ft r)	2070	- 10tai 00v		Column Totals: 165 (A) 555 (B)
1. Carya ovata	40	~	FACU	
2. Geum canadense	30	~	FAC	Prevalence Index = B/A = 3.36
3.				Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6				3 - Prevalence Index is $≤3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
9				data in Remarks or on a separate sheet)
0	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10	70%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	/0%	= Total Cov	er	be present, unless disturbed or problematic.
(Plot size)				
l	·			Hydrophytic
2				Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sneet.)			
Hydrophytic vegetation present.				

Profile Desc	ription: (Describe	to the depth n	eeded to docum	nent the ir	ndicator	or confirm	n the absence	of indicators.)
Depth (inches)	Matrix	%	Redo: Color (moist)	<u>x Features</u> %	Type ¹		Texture	Remarks
0 - 20	10VP 5/3	100					Silt Loam	
	1011 3/3							
-								
-								
-								
¹ Type: C=Co	oncentration, D=Der	pletion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy G	Bleved Mat	trix (S4)		Coast	Prairie Redox (A16)
Histic Er	pipedon (A2)		Sandy F	Redox (S5))		Dark S	urface (S7)
Black Hi	stic (A3)		Stripped	Matrix (Se	6)		lron-Ma	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy M	Jucky Min	eral (F1)		Very S	hallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy (Gleyed Ma	trix (F2)		Other (Explain in Remarks)
2 cm Mu	ıck (A10)		Deplete	d Matrix (F	3)			
Depleted	d Below Dark Surfac	e (A11)	Redox D	ark Surfac	ce (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark Sur	face (F7)		³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox D	epression	is (F8)		wetland	d hydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)					unless	disturbed or problematic.
Restrictive I	Layer (if observed)	:						
Туре:			-				Hudria Sail	Procent? Vac No V
Depth (ind	ches):		_				Hyune Soli	
Remarks:								
Ludria	oil abcant							
Hyunc :	son absent.							
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one is required:	check all that ap	olv)			Seconda	ry Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ned Leave	e (BQ)		<u>Surf</u>	ace Soil Cracks (B6)
Unace	water $(A1)$			una (B13)	3 (03)		Our	nage Batterns (B10)
Fight via				tic Plants ((B14)		Dra	Season Water Table (C2)
Oaturatio	larke (B1)			sulfido Od	$\left(C1\right)$		Dry-	dish Burrows (C8)
Sedimor	nt Denosite (R2)			hizosphor	es on Livi	ing Roots	(C3) Set	iration Visible on Aerial Imageny (CQ)
Drift Dor	n Depusits (DZ)			of Reduced	d Iron (C4		(00) 0alu	ated or Stressed Plants (D1)
	ot or Cruet (P4)		Fresence (n Reductio		t) d Soile (Ci		morphic Position (D2)
Algai Ma	at or Grust (B4)		Recent Iro	Curfe and Keducilo		u Solis (Ci	Geo	Neutral Test (D5)
Iron Dep		Income (DZ)		Surface (C	<i>(</i> , <u>)</u>		FAC	
inundation	on visible on Aerial	imagery (B7)	Gauge or \	vell Data ((D9)			
Sparsely	vegetated Concav	e Surrace (B8)	Other (Exp	ain in Rer	narks)			
Field Obser	vations:		v _					
Surface Wat	er Present?	es No	Depth (ind	ches):		-		
Water Table	Present?	es No	Depth (ind	ches):		_		
Saturation P	resent?	/es No _	Depth (ind	ches):		_ Wet	land Hydrology	y Present? Yes No

Remarks:

Wetland hydrology absent.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

(includes capillary fringe)

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Sampling Date: 2022-07-04
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-SP-014
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2S R8E S	SN2
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None
Slope (%): 0 Lat: 40.900769	Long: -83.903197	Datum: WGS 84
Soil Map Unit Name: PmA	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" g	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answe	rs in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes No No Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Deminant
3				Species Across All Strata: 2 (B)
4.				(-/
5				Percent of Dominant Species
o		- Total Cox		That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10tai 00v		Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				OBL species 0 x 1 = 0
3				FACW species 60 x 2 = 120
۵				EAC species 30 x 3 = 90
4	·			EACLI species 10 $x = 40$
5				$\frac{1}{100} \text{ species } \frac{1}{100} species$
Herb Stratum (Plot size: 5 ft r)		= Total Cov	er	$\frac{100}{250} = \frac{100}{250} = $
1 Phalaris arundinacea	60	~	FACW	Column Totals: (A) (A) (B)
2 Apocynum cannabinum	30	~	FAC	Prevalence Index = $B/A = 2.50$
2 Cirsium vulgare	10		FACU	Hydrophytic Vegetation Indicators:
3. <u></u>	·			1 - Rapid Test for Hydrophytic Vegetation
4				\checkmark 2 - Dominance Test is >50%
5				$\frac{1}{2} = 2 = \text{Dominiance restriction} = 3 = 0.01$
6				5 - Prevalence index is \$5.0
7				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				The disease of budging of the deviation of budgets are received.
20 # -	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 11)				
1				Hydrophytic
2				Vegetation
		= Total Cov	er	Present? Tes NO
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

Brofilo Docr	ription: (Describe	to the dar	th peopled to decu	mont the	indicator	orcopfin	m the absence of i	ndicators)
Profile Desc	inption: (Describe	to the dep	orn needed to docu	ment the	indicator	or confin	in the absence of i	naicators.)
Depth (inches)	Color (moist)	%	Color (moist)	<u>ox Feature</u> %	Type ¹	l oc ²	Texture	Remarks
0 - 20	10YR 4/2	95	10YR 5/6	5	C	 M	Silt Loam	
	10111 4/2							
-								
-								
-								
¹ Type: C=C	oncentration, D=Dep	oletion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed Ma	atrix (S4)		Coast Prai	rie Redox (A16)
Histic Ep	pipedon (A2)		Sandy	Redox (S5	5)		Dark Surfa	ace (S7)
Black Hi	istic (A3)		Strippe	d Matrix (56)		Iron-Mang	anese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mi	neral (F1)		Very Shall	ow Dark Surface (TF12)
Stratified	u Layers (A5)		Loamy	Gleyed M ad Matrix (atrix (F2)			bain in Remarks)
2 cm Mc	d Below Dark Surfac	ce (A11)	Deplet	Dark Surfa	ace (F6)			
Thick Da	ark Surface (A12)		Deplete	ed Dark Su	urface (F7)	³ Indicators of I	hydrophytic vegetation and
Sandy N	lucky Mineral (S1)		Redox	Depressio	ons (F8)	,	wetland hy	drology must be present,
5 cm Mu	ucky Peat or Peat (S	3)					unless dist	turbed or problematic.
Restrictive	Layer (if observed)	:						
Туре:								
Depth (in	ches):						Hydric Soil Pre	sent? Yes No
Remarks:								
Hydrics	son present.							
HYDROLO	GY							
Wetland Hy	drology Indicators							
Primary India	cators (minimum of (one is requi	ired [.] check all that a	(vlaa			Secondary I	ndicators (minimum of two required)
Surface	Water (A1)		Water-St		(BQ)		Surface	Soil Cracks (B6)
High Wa	ater Table (A2)			auna (R13	(DO)		Ounace	e Patterns (B10)
Saturati	(A3)			atic Plants	(B14)		Drainag	ason Water Table (C2)
Water M	larks (B1)		Hvdrogen	Sulfide O	dor(C1)		Dry Cee	Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosphe	ares on Liv	vina Roots	(C3) Saturati	on Visible on Aerial Imagery (C9)
Drift Der	nosits (B3)		Presence	of Reduce	ed Iron (C.	4)	Stunted	or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent In	on Reducti	ion in Tille	r) d Soils (C	Geomor	rohic Position (D2)
Iron Der	posits (B5)		Thin Muc	k Surface	(C7)	u 0013 (0	✓ FAC-Ne	eutral Test (D5)
Inundati	on Visible on Aerial	Imagery (R	 Gauge or 	Well Data	(D9)			
Sparsel	Vegetated Concav	e Surface (B8) Other (Fr	plain in Re	emarks)			
Field Obser	vations:		0.000 (EX					
Surface Wat	er Present?	/oc	No 🗸 Depth (ir	ches).				
Water Table	Drecent?	/00	No V Dopth (ir	chee).				
Seturation D	resent?	(00	No Depth (If	iches):		-	land Hudsalass D	
(includes car	pillary fringe)	es	Depth (Ir	icnes):		— ^{vvet}	land Hydrology Pr	esent? Tes No
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, pr	revious ins	spections)	, if available:	

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/All	en	Sampling Date:	2022-07-04
Applicant/Owner: AEP		_ _{State:} Ohio	Sampling Point:	1-SP-015
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2S R8E S	SN10	
Landform (hillslope, terrace, etc.): Flat	Local relief (con	cave, convex, none):	None	
Slope (%): 0 Lat: 40.889784	Long: -83.924779		Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	ation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norr	nal Circumstances" p	present? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If neede	d, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point loca	tions, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Not a wetland. Agricultural field.

20.4	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: 0 (A)
2			Total Number of Dominant
3			Species Across All Strata: 0 (B)
4.			(-,
5			Percent of Dominant Species
		- Total Cover	That Are OBL, FACW, or FAC: Nain (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)			Prevalence Index worksheet:
<u></u>			Total % Cover of: Multiply by:
··			$\frac{1}{OBI \text{ species } 0} \frac{1}{x + 1} = 0$
2			EACW species 0 $x_2 = 0$
S			$\frac{1}{2} = \frac{1}{2}$
4			FAC species 0 $x^3 = 0$
5			FACU species $0 \times 4 = 0$
Hart Strature (Distring) 5 ft r		= Total Cover	UPL species 0 $x 5 = 0$
Herb Stratum (Plot size: 3 rt 1)	30	<i>.</i>	Column Totals: 0 (A) 0 (B)
1. <u></u>			Developed Index - D/A - NaN
2			
3			Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation
5			2 - Dominance Test is >50%
6			$_$ 3 - Prevalence Index is $\leq 3.0^1$
7.			4 - Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
g			Problematic Hydrophytic Vegetation ¹ (Explain)
10			
10	30%		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	30%	= Total Cover	be present, unless disturbed or problematic.
1			Hadeselselle
·			Hydropnytic Vegetation
2			Present? Yes No
Demonitor (Include abote numbers here on the second		= Total Cover	
Remarks: (include photo numbers here or on a separate	sneet.)		
Hydrophytic vegetation present. 70	0% bare	e ground due	to farming.

(inches)	Color (moist)	0/2	Color (moist)	0X Feature	Type ¹		Texture	Remarks
		05		_ <u></u>				, itematics
0-20	1018 0/3	95	1018 0/0		<u> </u>		Sitty Clay	<u>/</u>
-								
-								
-								
	·							
	·							
-	·							
-								
Туре: С=С	oncentration, D=Deple	tion, RM=	Reduced Matrix, N	1S=Maske	d Sand Gr	ains.	² Locatio	on: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators:						Indicator	rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed M	atrix (S4)		Coas	st Prairie Redox (A16)
Histic E	oipedon (A2)		Sandy	Redox (S	5)		Dark	Surface (S7)
Black H	istic (A3)		Strippe	ed Matrix (S6)		Iron-	Manganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very	Shallow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy	Gleyed N	atrix (F2)		Othe	r (Explain in Remarks)
2 cm wit	d Below Dark Surface	(Δ11)	Depier	Dark Surf	(FS) Jace (F6)			
Depleter	ark Surface (A12)	(~11)	Redox	ed Dark Sun	urface (F7)	³ Indicato	rs of hydrophytic vegetation and
Sandy M	Aucky Mineral (S1)		Redox	Depressi	ons (F8)	,	wetla	nd hydrology must be present.
	ucky Peat or Peat (S3)		_				unles	ss disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
D							Hydric So	il Present? Yes No
Depth (in	ches):							
Depth (in Remarks:	ches):							
Depth (in Remarks:	ches):							
Depth (in Remarks: Hydric :	^{ches):}							
Remarks: Hydric	^{ches):} soil absent.							
Depth (in Remarks: Hydric s	^{ches):}							
Depth (in Remarks: Hydric :	ches): soil absent.							
Depth (in Remarks: Hydric : YDROLO	^{ches):} soil absent. GY							
Depth (in Remarks: Hydric : YDROLO Wetland Hy	ches): soil absent. GY drology Indicators:							
YDROLO Netland Hy Primary India	ches): soil absent. GY drology Indicators: cators (minimum of one	e is requi	red; check all that a	pply)			<u>Second</u>	dary Indicators (minimum of two required
YDROLO Vetland Hy Serimary India Surface	ches): soil absent. GY drology Indicators: cators (minimum of one Water (A1)	e is requi	red: check all that a Water-St	pply) ained Lea	ves (B9)		<u>Second</u>	dary Indicators (minimum of two required
Depth (in Remarks: Hydric : YDROLO Vetland Hy Primary India Surface High Wa	ches): Soil absent. GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2)	e is requi	r <u>ed: check all that a</u> Water-Sta Aquatic F	pply) ained Lea auna (B1;	ves (B9) 3)		<u>Second</u> Su Dr	dary Indicators (minimum of two required Irface Soil Cracks (B6) ainage Patterns (B10)
Depth (in Remarks: Hydric : YDROLO Vetland Hy Crimary India Surface High Wa Saturatia	ches): soil absent. GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3)	e is requi	<u>red: check all that a</u> Water-St Aquatic F True Aqu	pply) ained Lea auna (B1 atic Plants	ves (B9) 3) \$ (B14)		<u>Second</u> Su Dr Dr	<u>dary Indicators (minimum of two required</u> Irface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2)
Depth (in Remarks: Hydric : YDROLO Vetland Hy Primary India Surface High Wa Saturati Water M	ches): Soil absent. GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1)	e is requi	<u>ed: check all that a</u> Water-St Aquatic F True Aqu Hydroger	pply) ained Lea auna (B1 atic Plants n Sulfide C	ves (B9) 3) s (B14) odor (C1)		<u>Second</u> Su Dr Dr Cr	dary Indicators (minimum of two required Irface Soil Cracks (B6) rainage Patterns (B10) y-Season Water Table (C2) rayfish Burrows (C8)
YDROLO YOROLO Yotland Hy Primary India Surface High Wa Saturati Water M Sedimen	ches): soil absent. GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	e is requi	red: check all that a Water-St Aquatic F True Aqu Hydroger Oxidized	pply) ained Lea auna (B1 atic Plants n Sulfide C Rhizosph	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv	ing Roots	<u>Second</u> Su Dr Dr Cr (C3) Sa	dary Indicators (minimum of two required Irface Soil Cracks (B6) 'ainage Patterns (B10) y-Season Water Table (C2) 'ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Depth (in Remarks: Hydric s YDROLO Vetland Hy Primary India Saturatia Saturatia Saturatia Saturatia Saturatia Saturatia Saturatia Saturatia Saturatia Saturatia Saturatia	ches): soil absent. GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	e is requi	red: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence	ained Lea auna (B1 atic Plants Sulfide C Rhizosph o f Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Liv ed Iron (C4	ing Roots	<u>Second</u> Su Dr Dr Cr (C3) Sa Std	dary Indicators (minimum of two required Irface Soil Cracks (B6) rainage Patterns (B10) y-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
Depth (in Remarks: Hydric s YDROLO Yorkand Hy Primary India Surface High Wa Saturati Water M Sedimele Drift Dep Algal Ma	GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	e is requi	red: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Lea auna (B1 atic Plants Sulfide C Rhizosph e of Reduc on Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Liv ed Iron (C4 tion in Tille	ing Roots 4) d Soils (C	<u>Second</u> Su Dr Dr Cr (C3) Sa Stu 6) Ge	dary Indicators (minimum of two required Inface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) raturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) eomorphic Position (D2)
Depth (in Remarks: Hydric : YDROLO YDROLO Vetland Hy Primary India Saturatia High Water M Saturatia Water M Saturatia Drift Del Algal Ma Iron Dep	GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	e is requi	red: check all that a Water-Sta Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	pply) ained Lea auna (B1 atic Plants Sulfide C Rhizosph e of Reduc on Reduc k Surface	ves (B9) 3) s (B14) Odor (C1) eres on Liv ed Iron (C- tion in Tille (C7)	ing Roots \$) d Soils (C	<u>Second</u> Su Dr Dr Cr (C3) Sa Stu 6) Ge FA	dary Indicators (minimum of two required Inface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) eomorphic Position (D2) AC-Neutral Test (D5)
Depth (in Remarks: Hydric : YDROLO YDROLO Vetland Hy Crimary India Surface High Wa Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati	soil absent. GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im	e is requi	red: check all that a Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc 7) Gauge or	pply) ained Lea auna (B13 atic Plants a Sulfide C Rhizosphi of Reduc on Reduc k Surface	ves (B9) 3) 5 (B14) Odor (C1) eres on Liv ed Iron (C4 tion in Tille (C7) a (D9)	ing Roots 4) d Soils (C	<u>Second</u> Su Dr Dr Cr (C3) Sa Sti 6) Ge FA	dary Indicators (minimum of two require urface Soil Cracks (B6) rainage Patterns (B10) y-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) eomorphic Position (D2) AC-Neutral Test (D5)

_____Sparsely Vegetated Concave Surface (B8) _____Other (Explain in Remarks)
Field Observations:
Surface Water Present? Yes _____ No _ Depth (inches): _______
Water Table Present? Yes _____ No _ Depth (inches): _______
Saturation Present? Yes _____ No _ Depth (inches): _______
Saturation Present? Yes _____ No _ Depth (inches): _______
Depth (inches): _______
Depth (inches): _______
Depth (inches): _______
Betrive Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen		Sampling Date:	2022-07-04		
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-SP-016		
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2S R8E S	SN16			
Landform (hillslope, terrace, etc.): Flat	Local relief (con	cave, convex, none):	None			
Slope (%): 0 Lat: 40.871965	Long: -83.956059		Datum: WGS 8	34		
Soil Map Unit Name: PmA		NWI classific	ation: R4SBC			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	_ (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Nor	mal Circumstances" p	present? Yes	✓ No		
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If neede	d, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	ls the Sampled Area within a Wetland?	Yes	No
Remarks:					

Not a wetland. Upland swale in agricultural field.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species		
1				That Are OBL, FACW, or FAC: 1 (A)		
2.						
3				Total Number of Dominant		
				Species Across All Strata: $\underline{2}$ (B)		
4				Percent of Dominant Species		
5	·			That Are OBL, FACW, or FAC: 50 (A/B)		
15 ft r		= Total Cov	er			
Sapling/Shrub Stratum (Plot size: 13101)				Prevalence Index worksheet:		
1				Total % Cover of:Multiply by:		
2				OBL species 50 x 1 = 50		
3.				FACW species 0 x 2 = 0		
4				FAC species 0 x 3 = 0		
5				EACLI species 50 $x_4 = 200$		
5				$\frac{1}{1} = \frac{1}{1} = \frac{1}$		
Herb Stratum (Plot size: 5 ft r		= Total Cov	rer	$\frac{100}{100} \times 5 = \frac{100}{250}$		
Carex Jurida	50	~	OBL	Column Totals: 100 (A) 230 (B)		
Eostuca rubra	50		EACU	Previolence Index = P(4 = 2.50)		
2			FACO			
3				Hydrophytic Vegetation Indicators:		
4				1 - Rapid Test for Hydrophytic Vegetation		
5				2 - Dominance Test is >50%		
6.				3 - Prevalence Index is ≤3.0 ¹		
7.				4 - Morphological Adaptations ¹ (Provide supporting		
8				data in Remarks or on a separate sheet)		
0	·			Problematic Hydrophytic Vegetation ¹ (Explain)		
9	·					
10				¹ Indicators of hydric soil and wetland hydrology must		
30 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.		
Woody Vine Stratum (Plot size:)						
1	·			Hydrophytic		
2				Vegetation		
		= Total Cov	er			
Remarks: (Include photo numbers here or on a separate sheet.)						
Hydrophytic vegetation absent.						

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the	indicator	or confir	m the absence o	f indicators.)
Depth	Matrix	0/	Redo:	x Feature	S Tumo ¹	1.002	- Touturo	Domorko
		 		 F				Remarks
	10 YR 4/2	95	1018 5/6	5		IVI	Slity Clay	
-								
-								
-								
-								
	oncentration D=Der	letion RM:		S=Masker	d Sand Gr	ains	² Location:	PL=Pore Lining M=Matrix
Hydric Soil	Indicators:		-Reduced Matrix, Mc		a Sana Gi	anis.	Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	leved M	atrix (SA)		Coast P	rairie Redox (A16)
Histic Fr	(A1) Dipedon (A2)		Sandy G	Redox (SF	aunx (34)		Coast P	rface (S7)
Black Hi	istic (A3)		Stripped	Matrix (S	26) 56)		Iron-Mai	nace (G7)
Hvdroge	en Sulfide (A4)		Loamv N	Mucky Mi	neral (F1)		Verv Sh	allow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy (Gleyed M	atrix (F2)		Other (E	Explain in Remarks)
2 cm Mu	uck (A10)		V Deplete	d Matrix (F3)			
Depleted	d Below Dark Surfac	e (A11)	Redox D	Dark Surfa	ace (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark Su	urface (F7)	³ Indicators of	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox [Depressio	ns (F8)		wetland	hydrology must be present,
5 cm Mu	ucky Peat or Peat (S	3)					unless d	listurbed or problematic.
Restrictive I	Layer (if observed)	:						
Туре:							Hudria Cail D	Veccent2 Vec V
Depth (in	ches):							resent? res No
Remarks:								
	ooil procent							
Hydrics	son present.							
	<u> </u>							
HIDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one is requi	red: check all that ap	ply)			Secondar	y Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ned Leav	es (B9)		Surfa	ce Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	una (B13	5)		Drain	age Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plants	(B14)		Dry-S	eason Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayf	ish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized R	Rhizosphe	eres on Liv	ving Roots	s (C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence of	of Reduce	ed Iron (C	4)	Stunte	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C	C6) Geom	norphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface	(C7)	,	FAC-	Neutral Test (D5)
Inundati	on Visible on Aerial	Imagery (B	7) Gauge or \	Well Data	(D9)			
Sparselv	Vegetated Concav	e Surface (B8) Other (Exp	lain in Re	emarks)			
Field Obser	vations:	(,			
Surface Wat	er Present?	'es	No 🖌 Depth (inc	ches):				
Water Table	Present?	/es	No V Depth (inc	ches):		_		
Saturation D	recent?	/oc	No V Depth (inc			— wa	tland Hydrology	Present? Ves No V
Saturation P			Deptil (Int			_ """	aana nyarology	

Remarks:

Wetland hydrology absent.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

(includes capillary fringe)

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen		Sampling Date:	2022-07-04		
Applicant/Owner: AEP		_ _{State:} Ohio	Sampling Point:	1-SP-017		
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2S R8E \$	SN17			
Landform (hillslope, terrace, etc.): Flat	Local relief (con	cave, convex, none):	None			
Slope (%): 0 Lat: 40.868248	Long: -83.9625		Datum: WGS 8	34		
Soil Map Unit Name: PmA		NWI classific	ation: R4SBC			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	_ (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norr	nal Circumstances" p	present? Yes	✓ No		
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If neede	d, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No 🖌	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Not a wetland. Upland swale in agricultural field.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Deminent
3.				Species Across All Strata: 1 (B)
4				
т				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shruh Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
1				
2				
3				FACW species 0 $x 2 = 0$
4				FAC species 0 x 3 = 0
5				FACU species 100 x 4 = 400
		= Total Cov	ver	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100 (A) 400 (B)
1. Festuca rubra	90	<u> </u>	FACU	
2. Cirsium arvense	10		FACU	Prevalence Index = B/A = 4.00
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
3 10				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	100 %	= Total Cov	ver	be present, unless disturbed or problematic.
1				
1				Hydrophytic
۷				Present? Yes No
		= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate s	ineet.)			
Hydrophytic vegetation absent.				

Profile Desc	cription: (Describe	to the dept	h needed to document the indicator or confirm	n the absence of indicators.)
Depth	Matrix		Redox Features	
(inches)	Color (moist)		Color (moist) % Type ¹ Loc ²	Texture Remarks
0 - 20	10YR 6/3	100		Silty Clay
-				
-				
-				
	oncentration D=Der	letion RM=	Reduced Matrix MS=Masked Sand Grains	² Location: PL=Pore Lining M=Matrix
Hydric Soil	Indicators:			Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gleved Matrix (S4)	Coast Prairie Redox (A16)
Histic Er	pipedon (A2)		Sandy Redox (S5)	Dark Surface (S7)
Black Hi	istic (A3)		Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Mu	uck (A10)		Depleted Matrix (F3)	
Depleted	d Below Dark Surfac	e (A11)	Redox Dark Surface (F6)	31
Thick Da	ark Surface (A12)		Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and
5 cm Mu	ucky Peat or Peat (ST)	3)	Redox Depressions (Fo)	unless disturbed or problematic
Restrictive	Laver (if observed)	:		
Type:				
Depth (in	ches).			Hydric Soil Present? Yes No
Bomarke:	ciics).			
Remarks.				
Hydric s	soil absent.			
HYDROLO	GY			
Wetland Hy	drology Indicators:			
Primary India	cators (minimum of o	one is require	ed; check all that apply)	Secondary Indicators (minimum of two required)
Surface	Water (A1)		Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturatio	on (A3)		True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water M	larks (B1)		Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized Rhizospheres on Living Roots	(C3) Saturation Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	6) Geomorphic Position (D2)
Iron Dep	posits (B5)		Thin Muck Surface (C7)	FAC-Neutral Test (D5)

Inundation Visible on Ae	erial Imagery (B7	7)	_ Gauge or Well Data (D9)			
Sparsely Vegetated Cor	ncave Surface (B	38)	Other (Explain in Remarks)			
Field Observations:						
Surface Water Present?	Yes 1	No	_ Depth (inches):			
Water Table Present?	Yes 1	No	_ Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes 1	No _	_ Depth (inches):	Wetland Hydrology Present?	Yes	No
Describe Recorded Data (str	ream gauge, mo	nitoring	well, aerial photos, previous inspe-	ctions), if available:		
Remarks:						
Wetland hydrolog	gy absent.					

Project/Site: AEP Fostoria to Lima	City/County: Bluffton/Allen	Sampling Date: 2022-07-04
Applicant/Owner: AEP	State: _C	hio Sampling Point: 1-SP-018
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2	S R8E SN17
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, conve	ex, none): Convex
Slope (%): 1 Lat: 40.865639	Long: -83.966475	Datum: WGS 84
Soil Map Unit Name: PmA	NW	I classification: R4SBC
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, ex	plain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circums	stances" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain a	ny answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, tra	insects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland. Upland swale in agricultural field.

00 (i	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2.				
3				Total Number of Dominant
3				Species Across All Strata: <u>5</u> (B)
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 66.7 (A/B)
15 6 -		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2.				OBL species 0 x 1 = 0
3				FACW species $35 \times 2 = 70$
A				EAC species 25 $x_3 = 75$
4				$\frac{1}{100} = \frac{100}{100} = \frac{100}{100}$
5	·			FACU species $\frac{40}{0}$ $x 4 = \frac{100}{0}$
Eft r		= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 511)	40			Column Totals: 100 (A) 305 (B)
1. Festuca rubra	40		FACU	0.05
2. Phalaris arundinacea	35	<u> </u>	FACW	Prevalence Index = $B/A = 3.05$
3. Toxicodendron radicans	25	~	FAC	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				✓ 2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7	·			4 - Mornhological Adaptations ¹ (Provide supporting
<i>I</i>	·			data in Remarks or on a separate sheet)
8	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				1
	100%	= Total Cov	er	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless disturbed of problematic.
1				Hydrophytic
2				Vegetation
-		- Total Car		Present? Yes No
Pomarka: (Include photo numbero horo er en e concrete e	hoot)			
Remarks. (include photo numbers here of on a separate s	sneet.)			
Hydrophytic vegetation present.				

Profile Description: (D	escribe to the dept	h needed to document the indicator or o	onfirm the absence of ind	licators.)
Depth	Matrix	Redox Features		
(inches) Color (n	noist) %	Color (moist) % Type ¹ l	oc ² Texture	Remarks
0 - 20 10YR 6/	3 100		Silty Clay	
-				
-				
¹ Type: C=Concentration	, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil Indicators:	•		Indicators for Pr	oblematic Hydric Soils ³ :
Histosol (A1)		Sandy Gleyed Matrix (S4)	Coast Prairie	Redox (A16)
Histic Epipedon (A2))	Sandy Redox (S5)	Dark Surface	e (S7)
Black Histic (A3)		Stripped Matrix (S6)	Iron-Mangan	ese Masses (F12)
Hydrogen Sulfide (A	4)	Loamy Mucky Mineral (F1)	Very Shallow	Dark Surface (TF12)
Stratified Layers (A5))	Loamy Gleyed Matrix (F2)	Other (Expla	in in Remarks)
2 cm Muck (A10)	k Surface (A11)	Depleted Matrix (F3)		
Thick Dark Surface ((A12)	Depleted Dark Surface (F7)	³ Indicators of by	trophytic vegetation and
Sandy Mucky Minera	al (S1)	Redox Depressions (F8)	wetland hydro	plogy must be present.
5 cm Mucky Peat or	Peat (S3)	<u> </u>	unless distur	bed or problematic.
Restrictive Layer (if obs	served):			
Туре:				
Depth (inches):			Hydric Soil Prese	ent? Yes No
Remarks:				
 ludric coil cho	ont			
Hydric soll abs	ent.			
HYDROLOGY				
Wetland Hydrology Ind	icators:			
Primary Indicators (minin	num of one is require	ed; check all that apply)	Secondary Ind	icators (minimum of two required)
Surface Water (A1)		Water-Stained Leaves (B9)	Surface S	oil Cracks (B6)
High Water Table (A	2)	Aquatic Fauna (B13)	Drainage I	Patterns (B10)
Saturation (A3)		True Aquatic Plants (B14)	Dry-Seaso	on Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Crayfish B	urrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Roots (C3) Saturation	Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced Iron (C4)	Stunted or	Stressed Plants (D1)
Algal Mat or Crust (E	34)	Recent Iron Reduction in Tilled S	ils (C6) Geomorph	ic Position (D2)
Iron Deposits (B5)		Thin Muck Surface (C7)	FAC-Neut	ral Test (D5)
Inundation Visible or	n Aerial Imagery (B7) Gauge or Well Data (D9)		
Sparsely Vegetated	Concave Surface (B	8) Other (Explain in Remarks)		
Field Observations:				
Surface Water Present?	Yes N	lo Depth (inches):		
Water Table Present?	Yes N	lo Depth (inches):		
Saturation Present?	Yes N	lo Depth (inches):	Wetland Hydrology Pres	ent? Yes No
(includes capillary fringe)	(otroom govern	sitering well, poriol photos, providus income		
Describe Recorded Data	(siream gauge, mor	moring well, aerial priotos, previous inspec	uons), il available.	

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Bluffto	n/Allen	Sampling Date:	2022-07-05
Applicant/Owner: AEP		_{State:} Ohio	Sampling Point:	1-SP-019
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Ra	ange: OH01 T2S R7E	SN25	
Landform (hillslope, terrace, etc.): Flat	Local relief	f (concave, convex, none)	None	
Slope (%): 0 Lat: 40.842426	Long: -84.002647	,	Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	cation: PSS1C	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No _	(If no, explain in F	(emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	"Normal Circumstances"	present? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If n	eeded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	a sampling point	locations. transects	s. important fe	eatures. etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No V Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland. Agricultural field.

00 ft	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: 0 (A)
2.			
3			Total Number of Dominant
S	·		Species Across All Strata: 0 (B)
4	·		Percent of Dominant Species
5			That Are OBL, FACW, or FAC: NaN (A/B)
		= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft r)			Prevalence Index worksheet:
1			Total % Cover of: Multiply by:
2.			OBL species 0 x 1 = 0
3			EACW species 0 $x 2 = 0$
	·		EAC species 0 $x_3 = 0$
4	·		
5	·		FACU species 0 $x 4 = 0$
E 4+ -		= Total Cover	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5111)	00		Column Totals: 0 (A) 0 (B)
1. Glycine max	30	<u> </u>	
2			Prevalence Index = B/A = NaN
3.			Hydrophytic Vegetation Indicators:
4.			1 - Rapid Test for Hydrophytic Vegetation
5.			2 - Dominance Test is >50%
6.			3 - Prevalence Index is ≤3.0 ¹
7			4 - Morphological Adaptations ¹ (Provide supporting
8	·		data in Remarks or on a separate sheet)
0			Problematic Hydrophytic Vegetation ¹ (Explain)
5	·		
10			¹ Indicators of hydric soil and wetland hydrology must
We have only an and a 30 ft r	30%	= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			
1	·		Hydrophytic
2			Vegetation
		= Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)		
Hydrophytic vegetation absent.			

Profile Desc	cription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confin	n the absence of indicators.))	
Depth	Matrix		Redo	x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks	
0-6	10YR 3/2	100					Silty Clay		
6 - 20	10YR 3/2	97	10YR 5/6	3	С	М	Silty Clay		
-									
-									
——									
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: PL=Pore Lini	ng, M=Matrix.	
Hydric Soll	Indicators:		0 division				Indicators for Problemat	ic Hydric Solis":	
Histosol	(A1)		Sandy (Gleyed M	atrix (S4)		Coast Prairie Redox (A16)	
Histic El	pipedon (A2)		Sandy I	Redox (S	5)		Dark Surface (S7)	(540)	
Black Hi	ISTIC (A3)			d Matrix (56) maral (E1)			ses (F12)	
Hydroge	d Lovers (AE)		Loamy	Cloved M	neral (F1)		Very Shallow Dark St		
2 cm Mu	u Layers (A5)		Loaniy	d Matrix ((F3)			laiks)	
Depleter	d Below Dark Surfac	e (A11)	Bedox	Dark Surf	ace (F6)				
Thick Da	ark Surface (A12)		Deplete	d Dark S	urface (F7)	³ Indicators of hydrophytic	vegetation and	
Sandy M	Aucky Mineral (S1)		Redox	Depressio	ons (F8)	/	wetland bydrology must be present		
5 cm Mu	ucky Peat or Peat (S	3)			(-)		unless disturbed or problematic.		
Restrictive	Layer (if observed)	:							
Type:									
Depth (in	ches):						Hydric Soil Present? Yo	es No	
Remarks:									
	aail ahaant								
Hydrics	son absent.								
HYDROLO	GY								
Wetland Hy	drology Indicators:								
Primary India	cators (minimum of o	one is requi	ired; check all that a	oply)			Secondary Indicators (r	<u>ninimum of two required)</u>	
Surface	Water (A1)		Water-Sta	ined Leav	/es (B9)		Surface Soil Cracks	s (B6)	
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage Patterns	(B10)	
Saturati	on (A3)		True Aqua	atic Plants	(B14)		Dry-Season Water	Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized I	Rhizosphe	eres on Liv	ing Roots	(C3) Saturation Visible of	on Aerial Imagery (C9)	
Drift Der	posits (B3)		Presence	of Reduc	ed Iron (C	4)	Stunted or Stresse	d Plants (D1)	
Algal Ma	at or Crust (B4)		Recent Irc	on Reduct	ion in Tille	d Soils (C	6) Geomorphic Positio	on (D2)	
Iron Der	posits (B5)		Thin Muck	Surface	(C7)		FAC-Neutral Test (D5)	
🖌 Inundati	on Visible on Aerial	lmagery (B	7) Gauge or	Well Data	(D9)		(/	
Sparsel	v Vegetated Concav	e Surface (B8) Other (Ex	plain in R	emarks)				
Field Obser	vations:		· · · · · · · · · · · · · · · · · · ·						
Surface Wat	er Present?	'es	No V Depth (in	ches).					
Water Table	Present?	/es	No V Depth (in	ches).					
Soturotion D	Seturation Dresent? Ves No V Denth (inches):								
(includes car	pillary fringe)	es	Depth (in	iches):		_ wet	and Hydrology Present? Y	es NO	
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious ins	spections)	if available:		

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen		Sampling Date:	2022-07-05			
Applicant/Owner: AEP		State: Ohio	Sampling Point:	1-SP-020			
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range:	OH01 T2S R7E S	SN26				
Landform (hillslope, terrace, etc.): Flat	Local relief (con	cave, convex, none):	None				
Slope (%): 0 Lat: 40.832733	Long: -84.017597		Datum: WGS 8	34			
Soil Map Unit Name: PmA		NWI classific	ation: R4SBC				
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	_ (If no, explain in R	emarks.)				
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	nal Circumstances" p	present? Yes	✓ No			
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answe	rs in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	Is the Sampled Area within a Wetland?	Yes	No
Remarks:	100			

Not a wetland. Upland swale in agricultural field.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2.				
3				Total Number of Dominant
				Species Across All Strata: $\underline{2}$ (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
15 ft r		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15111)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
3.				FACW species 0 x 2 = 0
4				FAC species 0 x 3 = 0
				EACLI species 100 x 4 - 400
5				
Horb Stratum (Plot size: 5 ft r		= Total Cov	er	UPL species $\frac{0}{100}$ $x = \frac{0}{100}$
Festuca rubra	70	~	FACU	Column Totals: 100 (A) 400 (B)
				5 1 1 50 100
2. Glechoma nederacea	30		FACU	
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
o				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
20 ft r	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 50 TTT))				
1				Hydrophytic
2				Vegetation
		= Total Cov	er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describe Matrix	to the depth r	eeded to docun	nent the in Features	ndicator	or confirr	n the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 6/3	100					Silty Clay	
-								
-								
-								
-								
1= 0.0							2	
Type: C=C	oncentration, D=Dep	pletion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	Location	: PL=Pore Lining, M=Matrix.
			Sandy	Neved Met			nucators	
Histosol	(A1) Dipedon (A2)		Sandy G	eyed Mat	rix (54)		Coast	Prairie Redox (A16)
Black Hi	stic (A3)		Sanuy P	Matrix (Sf	6)		Dark S	anganese Masses (F12)
Black Th Hydroge	en Sulfide (A4)			Jucky Mine	eral (F1)		Verv S	hallow Dark Surface (TF12)
Stratified	d Lavers (A5)		Loamy (Gleved Ma	trix (F2)		Other	(Explain in Remarks)
2 cm Mu	ıck (A10)		Deplete	d Matrix (F	3)			
Depleted	d Below Dark Surfac	ce (A11)	Redox D	ark Surfac	ce (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark Sur	face (F7)	1	³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox [epression	s (F8)		wetlan	d hydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)					unless	disturbed or problematic.
Restrictive I	Layer (if observed)	:						
Туре:			-				Hydric Soil	Present? Yes No 🗸
Depth (in	ches):		_				Thyunc con	
Remarks:								
Hydric	soil absent							
i iyano (
HYDROLO	GY							
Wetland Hy	drology Indicators:	:						
Primary India	cators (minimum of o	one is required;	check all that ap	ply)			Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Stai	ned Leave	s (B9)		Surl	ace Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	una (B13)			Drai	inage Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plants (B14)		Dry-	Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide Od	or (C1)		Cra	yfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized R	hizospher	es on Livi	ing Roots	(C3) Satu	uration Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence of the second seco	of Reduced	d Iron (C4	4)	Stur	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reductio	n in Tilleo	d Soils (C	6) Geo	emorphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface (C	C7)		FAC	C-Neutral Test (D5)
Inundati	on Visible on Aerial	Imagery (B7)	Gauge or \	Vell Data ((D9)			
Sparsely	/ Vegetated Concav	e Surface (B8)	Other (Exp	lain in Rer	narks)			
Field Obser	vations:							
Surface Wat	er Present? Y	/es No	Depth (ind	ches):		_		
Water Table	Present? Y	/es No	Depth (ind	ches):		_		
Saturation P	resent? Y	es No	Pepth (ind	ches):		_ Wet	and Hydrolog	y Present? Yes No

Remarks:

Wetland hydrology absent.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

(includes capillary fringe)

Project/Site: AEP Fostoria to Lima	City/County: Lima/	Allen	Sampling Date:	2022-07-05
Applicant/Owner: AEP		_{State:} Ohio	Sampling Point:	1-SP-021
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, F	ange: OH01 T2S R7E S	SN35	
Landform (hillslope, terrace, etc.): Flat	Local relie	ef (concave, convex, none):	None	
Slope (%): 0 Lat: 40.830882	Long: -84.01986	2	Datum: WGS 8	34
Soil Map Unit Name: PmA		NWI classific	cation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No	(If no, explain in R	(emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Ar	e "Normal Circumstances" p	oresent? Yes	✓No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point	locations, transects	, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u> No No No </u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Not a wetland. Upland swale in agricultural field.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2.				
3				Total Number of Dominant
	·			Species Across All Strata: (B)
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
1E f+ -		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 It I)				Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2.				OBL species 0 x 1 = 0
3				FACW species $0 \qquad x 2 = 0$
4	·			EAC species 0 $x_3 = 0$
4	·			$\frac{1}{100} \times 0 = \frac{1}{200}$
5	·			$\begin{array}{c} \text{FACU species} \underline{100} \qquad x \neq \underline{-900} \\ \hline 0 \qquad x = \underline{-900} $
5 ft r		= Total Cov	ver	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: <u>5101</u>)	100		EACU	Column Totals: 100 (A) 400 (B)
	100		1400	4.00
2				Prevalence Index = B/A = 4.00
3				Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
	·			4 - Mornhological Adaptations ¹ (Provide supporting
<i>I</i>	·			data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				1
	100%	= Total Cov	ver	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless disturbed of problematic.
1				Hydrophytic
2				Vegetation
		= Total Cov		Present? Yes No V
Remarks: (Include photo numbers here or on a separate	sheet)	10141001		
Tremarka. (moldde prioto numbera nere or off a separate a	noet.)			
Hydrophytic vegetation absent.				

Profile Description: (Describe to the depth needed to document the indicator or o	confirm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ L	_oc ² Texture Remarks
<u>0-20</u> <u>10YR 6/3</u> <u>100</u>	Silty Clay
-	
·	
·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains	s. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3) Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5) Loamy Gieyed Matrix (F2)	Other (Explain in Remarks)
Depleted Matrix (F5)	
Thick Dark Surface (A12) Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
Hydric coil abcont	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	oils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No 🖌 Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	tions) if available:
beschibe recorded Data (stream gauge, monitoring weil, achai photos, previous inspec	storia, il avallable.

Remarks:

Wetland hydrology absent.
Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen	Sampling Date: 2	2022-07-05			
Applicant/Owner: AEP	State:	Ohio Sampling Point: 1	-SP-022			
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01	T3S R7E SN2				
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, co	ivex, none): None				
Slope (%): 0 Lat: 40.816987	Long: -84.023091	Datum: WGS 84	1			
Soil Map Unit Name: ShA		WI classification: R5UBH				
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🔽 No (If no,	explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circu	mstances" present? Yes	No			
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain	any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland. Riparian corridor of stream.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1. Fraxinus pennsylvanica	5	 ✓ 	FACW	That Are OBL, FACW, or FAC: 2 (A)
2				
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
	5%	= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				OBL species $0 \qquad x = 0$
2				EACIM encodes $\frac{105}{105}$ x 2 - $\frac{210}{210}$
3				FACW species $\frac{100}{2}$ $x = \frac{210}{2}$
4				FAC species $0 \times 3 = 0$
5				FACU species 0 x 4 = 0
		= Total Cov	er	UPL species $0 x 5 = 0$
Herb Stratum (Plot size: 5 ft r)				Column Totals: 105 (A) 210 (B)
1 Phalaris arundinacea	100	~	FACW	
2				Prevalence Index = B/A = 2.00
3				Hydrophytic Vegetation Indicators:
S				✓ 1 - Rapid Test for Hydrophytic Vegetation
4				O Descioners Textics 50%
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
20 ft -	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)				
1. Convolvulus arvensis	10	<u> </u>		Hydrophytic
2.				Vegetation
	10%	= Total Cov		Present? Yes No
Remarke: (Include phote numbers here or on a concrete -	aboot)	- 10(a) 000		
Remarks: (include photo numbers here or on a separate	sneet.)			
Hydrophytic vegetation present.				

Profile Description: (Describe to the depth needed to document the indicator or confi	rm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	
0 - 20 10YR 5/3 100	Silty Clay
·	
·	
-	
¹ Type: C=Concentration D=Depletion PM=Reduced Matrix MS=Masked Sand Grains	² Location: PL=Pore Liping M=Matrix
Hype: C-Concentration, D-Depletion, Nin-Reduced Matrix, MS-Masked Sand Grans.	Indicators for Problematic Hydric Soils ³ :
Historol (A1) Sandy Gleved Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10) Depleted Matrix (F3)	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	3
Thick Dark Surface (A12) Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present,
Schniddky Fear of Fear (35)	
Denth (inches):	Hydric Soil Present? Yes No
Bemerke:	
Remarks.	
Hydric soil absent.	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Root	s (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Ver Depth (inches):	
Saturation Present? Yes No 🖌 Depth (inches): We	etland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections	a), if available:

Remarks:

Wetland hydrology absent.

Project/Site: AEP Fostoria to Lima	City/County: Lima/Allen	Sampling Date: 2022-07-05
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-SP-023
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T3S R7E S	SN2
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None
Slope (%): 0 Lat: 40.810354	Long: -84.024449	Datum: WGS 84
Soil Map Unit Name: ShA	NWI classific	cation: PEM1A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	ers in Remarks.)
	n aanvuling naint laastiana tuonaasta	in a stant facture of

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No V Yes No V Yes No V	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

Not a wetland. Mown yard.

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft f)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				
3				I otal Number of Dominant Species Across All Strate: (B)
а				
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 0 (A/B)
15 ft r		= Total Cov	/er	Description of the description of the set
Sapling/Shrub Stratum (Plot size: 13111)				Prevalence index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species 0 x 1 = 0
3.				FACW species 0 x 2 = 0
4				FAC species $0 x 3 = 0$
5				EACLI species 100 $x_4 = 400$
o	·			
Herb Stratum (Plot size: 5 ft r		= Total Cov	ver	$\frac{100}{100} \times 5 = \frac{100}{100}$
Festuca rubra	100	~	FACU	Column Totals: 100 (A) 400 (B)
				Dravelance index $= D/4 = 4.00$
2				
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5.				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
1	·			data in Remarks or on a separate sheet)
8	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				
00.4	100%	= Total Cov	/er	be present unless disturbed or problematic
Woody Vine Stratum (Plot size: 30 ft r)				
1				Hydrophytic
2				Vegetation
		= Total Cov	/er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			1
	,			
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describe	to the depth n	eeded to docur	nent the in	ndicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Features	_ 1			
(inches)	Color (moist)		Color (moist)	%	Type'	_Loc ²		Remarks
0-20	10YR 6/3	_ <u>100</u>					Silty Clay	
-								
-								
-								
-								
¹ Type: C=C	oncentration, D=Dep	oletion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils':
Histosol	(A1)		Sandy C	Sleyed Mat	rix (S4)		Coast	Prairie Redox (A16)
Histic Ep	opedon (A2)		Sandy F	Redox (S5)	2)		Dark S	Surface (S7)
Black HI	SIIC (A3) on Sulfide (A4)		Stripped	Mucky Mine	o) erel (E1)		Iron-Ivi	anganese Masses (F12)
Stratified	d Lavers (A5)		Loamy (Gleved Mat	trix (F2)		Other	(Explain in Remarks)
2 cm Mu	ick (A10)		Deplete	d Matrix (F	3)			(
Depleted	d Below Dark Surfac	ce (A11)	Redox [Dark Surfac	ce (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark Sur	face (F7)		³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox [Depression	s (F8)		wetlan	d hydrology must be present,
5 cm Mu	icky Peat or Peat (S	3)					unless	disturbed or problematic.
Restrictive	Layer (If observed)	:						
Type:			-				Hydric Soil	Present? Yes No
Deptil (in	cites).		-					
Remarks.								
Hydric s	soil absent.							
HYDROLO	GY							
Wetland Hv	drology Indicators	:						
Primary India	cators (minimum of o	one is required:	check all that an	(vla			Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ned Leave	s (B9)		Sur	ace Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	una (B13)			Drai	inage Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plants (B14)		Dry-	Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide Od	or (C1)		Cra	yfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizospher	es on Livi	ing Roots	(C3) Sati	uration Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduced	d Iron (C4)	Stur	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reductio	n in Tilleo	d Soils (Ce	6) Geo	morphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface (C	C7)		FAC	C-Neutral Test (D5)
Inundati	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data ((D9)			
Sparsely	/ Vegetated Concav	e Surface (B8)	Other (Exp	lain in Ren	marks)			
Field Obser	vations:		~					
Surface Wat	er Present?	/es No _	Depth (in	ches):		-		
Water Table	Present?	/es No _	Depth (in	ches):		-		
Saturation P	resent?	/es No _	Depth (inclusion)	ches):		_ Wetl	and Hydrolog	y Present? Yes No

Remarks:

Wetland hydrology absent.

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

(includes capillary fringe)

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-06-30					
Applicant/Owner: AEP	State: Ohio	_ Sampling Point: <u>1-T</u>					
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R11	E SN31					
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none	e): Concave					
Slope (%): 2 Lat: 41.086924	Long: -83.648955	Datum: WGS 84					
Soil Map Unit Name: SkB	NWI classi	fication: N/A					
Are climatic / hydrologic conditions on the site typical for this time of ye	Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances"	" present? Yes 🗾 No					
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answ	vers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland? Yes No
Remarks:		

PEM. ORAM score of 13.

20 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata; 2 (B)
4.				(-,
5				Percent of Dominant Species
o		- Total Cox		That Are OBL, FACW, of FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		- 10(a) 00(Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				OBL species 80 x 1 = 80
3				FACW species 0 x 2 = 0
4	·			FAC species 20 x 3 = 60
	·			EACLI species 0 $x = 0$
5	·	- Total Car		$\frac{1}{10} \text{ species } \frac{0}{2} \text{ species } \frac{1}{2} \text{ species } \frac{1}{2$
Herb Stratum (Plot size: 5 ft r)			er	Column Tatala 100 (A) 140 (B)
1 Typha angustifolia	80	~	OBL	
2 Apocynum cannabinum	20	~	FAC	Prevalence Index = $B/A = 1.40$
2				Hydrophytic Vegetation Indicators:
3	·			1 - Rapid Test for Hydrophytic Vegetation
4	·			✓ 2 - Dominance Test is >50%
5	·			\checkmark 3 - Prevalence Index is <3.0 ¹
6	·			Or Prevalence index is 20.0
7				data in Remarks or on a separate sheet)
8	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indicators of hydric soil and wetland hydrology must
30 ft r	100%	= Total Cov	ver	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1	·			Hydrophytic
2	·			Vegetation Present? Yes No
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

SOIL								Sampling Point:		
Profile Des	cription: (Describe to	the depth	needed to docu	ment the	indicator	or confin	m the absend	ce of indicators.)		
Depth Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks		
0 - 20	10YR 5/2	90 1	0YR 5/6	10	С	М	Silty Clay	/		
-										
<u> </u>					·					
					·					
-										
-										
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		tion PM-P	educed Matrix, M	S-Maskov	d Sand Gr		21 ocativ			
Hydric Soil	Indicators:		educed Matrix, M	5-Masked	a Sanu Gr	ams.	Indicator	rs for Problematic Hydric Soils ³ :		
Histoso	(A1)		Sandy	Gleved Ma	atrix (SA)		Coa	st Prairie Redox (A16)		
Histic E	pipedon (A2)		Sandy	Redox (S5	5)		Ooa	Surface (S7)		
Black H	Black Histic (A3) Stripped Matrix (S6)					lron-	Manganese Masses (F12)			
Hydroge	en Sulfide (A4)		Loamy	Mucky Mi	neral (F1)		Very	Shallow Dark Surface (TF12)		
Stratifie	d Layers (A5)		Loamy	Gleyed M	atrix (F2)		Othe	er (Explain in Remarks)		
2 cm Mi	uck (A10)		 Deplete 	ed Matrix (F3)					
Deplete	d Below Dark Surface	(A11)	Redox	Dark Surfa	ace (F6)		3			
Thick D	ark Surface (A12)		Deplete	ed Dark Su	urface (F7))	Indicato	indicators of hydrophytic vegetation and		
5 cm M	Aucky Mineral (S1)		Redox	Depressio	ns (F8)		wetta	and hydrology must be present,		
Restrictive	Laver (if observed):									
Type:										
Denth (in	ches).		_				Hydric So	oil Present? Yes 🦯 No		
Bomorko:										
Remarks.										
Hydric	soil present.									
	•									
HYDROLO	GY									
Wetland Hy	drology Indicators:									
Primary Indi	cators (minimum of on	e is required	I; check all that a	pply)			Secon	dary Indicators (minimum of two required)		
Surface	Water (A1)		 Water-Sta 	ained Leav	es (B9)		Su	urface Soil Cracks (B6)		
High Wa	ater Table (A2)		Aquatic F	auna (B13	5)		Dr	rainage Patterns (B10)		
Saturati	Saturation (A3) True Aquatic Plants (B14)					 Dr	ry-Season Water Table (C2)			
Water M	Water Marks (B1) Hvdrogen Sulfide Odor (C1)					Cr	rayfish Burrows (C8)			
Sedime	nt Deposits (B2)		Oxidized	Rhizosphe	eres on Liv	ing Roots	(C3) Sa	aturation Visible on Aerial Imagery (C9)		
Drift De	posits (B3)		Presence	of Reduce	ed Iron (C4	4)	St	unted or Stressed Plants (D1)		
Algal M	at or Crust (B4)		Recent Ire	on Reducti	ion in Tille	d Soils (C	6) 🖌 G	eomorphic Position (D2)		
Iron De	posits (B5)		Thin Mucl	k Surface ((C7)	-	<u> </u>	AC-Neutral Test (D5)		
Inundat	on Visible on Aerial Im	nagery (B7)	Gauge or	Well Data	(D9)					
Sparse	y Vegetated Concave	Surface (B8) Other (Ex	plain in Re	emarks)					
Field Obser	vations:				-					

Field Observations:						
Surface Water Present?	Yes No 🗹	Depth (inches):				
Water Table Present?	Yes No 🗹	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland Hydrology Present?	Yes 🔽	No	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						
Wetland hydrology present.						

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	_ Sampling Date: <u>2022-07-01</u>			
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-U			
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R10	E SN36			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): Concave			
Slope (%): 1 Lat: 41.082425	Long:83.662281	Datum: WGS 84			
Soil Map Unit Name: PmA	NWI classifi	ication: N/A			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗹 No (If no, explain in I	Remarks.)			
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances"	present? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answ	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	Is the Sampled Area within a Wetland? Yes No
Remarks:		

PEM. ORAM score of 26.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: <u>3</u> (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5.				Percent of Dominant Species
		= Total Cov	/er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x 1 = 40
3.				FACW species _60 x 2 = _120
4				FAC species 0 x 3 = 0
5				FACU species 0 $x = 0$
		= Total Cov	er	UPL species $\overline{0}$ x 5 = $\overline{0}$
Herb Stratum (Plot size: <u>5 ft r</u>)		rotar oot		Column Totals: 100 (A) 160 (B)
1. Bidens frondosa	30	~	FACW	
2. Carex vulpinoidea	30	~	FACW	Prevalence Index = B/A = 1.60
3. Eleocharis palustris	30	~	OBL	Hydrophytic Vegetation Indicators:
4. Carex tribuloides	10		OBL	✓ 1 - Rapid Test for Hydrophytic Vegetation
5.				✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
10	100%	= Total Cox		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		- 10(a) 000		be present, unless disturbed or problematic.
1.				Hydrophytic
2.				Vegetation
		= Total Cov	/er	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

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SOIL								Sampling Point:
Profile Desc	ription: (Describe	e to the de	pth needed to docu	ment the	indicator	or confir	m the absence of in	dicators.)
Depth	Matrix		Red	ox Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0 - 20	10YR 5/2	95	10YR 6/6	5	С	М	Silty Clay	
-								
							·	
-							·	
-								
				_				
-							·	
¹ Type: C=Co	oncentration, D=De	pletion, RM	I=Reduced Matrix, N	S=Maske	ed Sand Gr	ains.	² Location: PL=	=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						Indicators for P	roblematic Hydric Soils':
Histosol	(A1)		Sandy	Gleyed M	latrix (S4)		Coast Prairi	e Redox (A16)
Histic Ep	pipedon (A2)		Sandy	Redox (S	5)		Dark Surfac	e (S7)
Black Hi	stic (A3)		Strippe	d Matrix (S6)		Iron-Manga	nese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy	Mucky M	ineral (F1)		Very Shallo	w Dark Surface (TF12)
Stratified	Layers (A5)		Loamy	Gleyed N	atrix (F2)		Other (Expla	ain in Remarks)
2 cm iviu	ICK (ATU) I Bolow Dark Surfa	co (A11)	Deplet	Dork Sud	(F3) (F6)			
Thick Da	ark Surface (A12)		Redox	ed Dark Sun	urface (F7)	³ Indicators of h	drophytic vegetation and
Sandy M	lucky Mineral (S1)		Bedox	Depressi	ons (F8)	/	wetland hvd	rology must be present.
5 cm Mu	cky Peat or Peat (S3)					unless distu	rbed or problematic.
Restrictive I	ayer (if observed):						
Type:								
Depth (inc	ches):						Hydric Soil Pres	ent? Yes No
Remarks:								
r contanco.								
Hydric s	soil present	•						
	-							
HYDROLOGY								
Wetland Hyd	drology Indicators	:						
Primary Indic	ators (minimum of	one is requ	ired; check all that a	pply)			Secondary Inc	dicators (minimum of two required)
Surface	Water (A1)		🖌 Water-Sta	ained Lea	ves (B9)		🖌 Surface S	Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic F	auna (B1	3)		Drainage	Patterns (B10)
Saturatio	on (A3)		True Aqu	True Aquatic Plants (B14)			Dry-Seas	on Water Table (C2)
Water M	arks (B1)		Hydroger	Sulfide C	Odor (C1)		Crayfish l	Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Liv	ing Roots	(C3) Saturation	n Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduc	ed Iron (C	4)	Stunted of	or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent In	on Reduc	tion in Tille	d Soils (C	6) 🖌 Geomorp	hic Position (D2)
Iron Dep	osits (B5)		Thin Muc	k Surface	(C7)	-	✓ FAC-Neu	tral Test (D5)
Inundatio	on Visible on Aeria	Imagery (E	B7) Gauge or	Well Data	a (D9)			
Sparsely	Vegetated Conca	ve Surface	(B8) Other (Ex	plain in R	emarks)			
Field Obser	vations:		· / <u> </u>		,			
Surface Wate	er Present?	Yes	No 🖌 Depth (ir	ches):				
Water Table	Present?	Yes	No V Depth (ir	iches):		_		
Saturation D	asont?	Vec	No V Depth (ii	chec).		— wo	and Hydrology Pro	sent? Ves 🗸 No
(includes cap	pillary fringe)		popitoring well og del	nhoton -			if available:	
Describe Re	borded Data (střeal	n gauge, m	ionitoring well, aerial	photos, p	nevious ins	spections)	, il avaliable:	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-01
Applicant/Owner: AEP	State: C	hio Sampling Point: 1-U/V UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2	N R10E SN36
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, conve	ex, none): None
Slope (%): 0 Lat: 41.082751	Long: -83.662036	Datum: WGS 84
Soil Map Unit Name: DfA	NW	/I classification: <u>N/A</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, ex	plain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circums	stances" present? Yes 🗾 No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain a	ny answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Upland point for Wetland 1-U and Wetland 1-V.

00 th	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3.				Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Cov	/er	Prevalence Index worksheet:
1 Elaeagnus umbellata	10	~		Total % Cover of: Multiply by:
1				$\frac{1}{1} \frac{1}{1} \frac{1}$
2				
3				FACVV species 10 $x 2 = 20$
4				FAC species 0 $x 3 = 0$
5				FACU species 100 x 4 = 400
- 4	10%	= Total Cov	ver	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)				Column Totals: 110 (A) 420 (B)
1. Solidago canadensis	50	<u> </u>	FACU	
2. Festuca subverticillata	20	<u> </u>	FACU	Prevalence Index = B/A = <u>3.82</u>
3. Rubus allegheniensis	20	~	FACU	Hydrophytic Vegetation Indicators:
4. Cornus florida	10		FACU	1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
0				4 - Morphological Adaptations ¹ (Provide supporting
<i>I</i>				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
9				
10				¹ Indianters of hydric coil and watland hydrology must
20 ft -	100%	= Total Cov	ver	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)				
1. Vitis riparia	10	<u> </u>	FACW	Hydrophytic
2				Vegetation
	10%	= Total Cov	ver	Present? Yes No Vo
Remarks: (Include photo numbers here or on a separate s	sheet.)			1
	-			
Hydrophytic vegetation absent.				

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	e indicator	or confir	m the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>ox Featur</u> %	Type ¹	L oc ²	Texture	Remarks
0 - 20	10VP 7/2	95	10VP 5/6	5		<u> </u>	Silty Clay	Kemanas
	101 R 7/2		101 K 3/0					
-								
-								
							·	
-								
¹ Type: C=C	oncentration, D=Dep	letion, RM	Reduced Matrix, M	S=Maske	ed Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy	Gleyed N	/atrix (S4)		Coast	Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy	Redox (S	65)		Dark S	Surface (S7)
Black Hi	istic (A3)		Strippe	d Matrix ((S6)		Iron-M	anganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky M	lineral (F1)		Very S	Shallow Dark Surface (TF12)
Stratified	a Layers (A5)		Loamy	Gleyed IV			Other	(Explain in Remarks)
2 cm wit	d Below Dark Surfac	ο (Δ11)	Deplete Redox	Dark Sur	(FS) face (F6)			
Depleter	ark Surface (A12)	e (ATT)	Redox	ed Dark Su	Surface (F7)	³ Indicators	s of hydrophytic vegetation and
Sandy M	Sandy Mucky Mineral (S1) Redox Depressions (F8)				wetlan	d hydrology must be present.		
5 cm Mu	ucky Peat or Peat (S	3)					unless	disturbed or problematic.
Restrictive	Layer (if observed)	;						
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								
Hydric	soil present.							
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one is requi	red; check all that a	pply)			Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Lea	ves (B9)		Sur	face Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Dra	inage Patterns (B10)
Saturati	on (A3)		True Aqu	atic Plant	s (B14)		Dry	-Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide 0	Odor (C1)		Cra	yfish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on Liv	ing Roots	(C3) Sati	uration Visible on Aerial Imagery (C9)
Drift Der	posits (B3)		Presence	of Reduc	ced Iron (C4	4)	Stur	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent In	on Reduc	tion in Tille	d Soils (C	6) Geo	omorphic Position (D2)
Iron Der	posits (B5)		Thin Muc	k Surface	e (C7)	, -	FAC	C-Neutral Test (D5)
Inundati	on Visible on Aerial	Imagery (B	7) Gauge or	Well Dat	a (D9)			

Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)							
Field Observations:	_						
Surface Water Present?	Yes No Depth (inches):						
Water Table Present?	Yes No Depth (inches):						
Saturation Present? (includes capillary fringe)	Yes No Depth (inches):	Wetland Hydrology Present? Yes No					
Describe Recorded Data (stre	am gauge, monitoring well, aerial photos, previous inspec	tions), if available:					
Remarks:							
Wetland hydrolog	y absent.						

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-01
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-V
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T2N R10E	SN36
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave
Slope (%): 1 Lat: 41.082827	Long: -83.661814	Datum: WGS 84
Soil Map Unit Name: DfA	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	oresent? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)
		in a stant facture of a

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V No Yes V No Yes V No	o Is the Sampled Area o within a Wetland?	Yes No
Remarks:			

PEM. ORAM score of 26.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.				、
5.				Percent of Dominant Species
		= Total Cov		That Ale OBL, FACW, OF FAC. 100 (AVB)
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2.				OBL species 60 x 1 = 60
3				FACW species 30 x 2 = 60
4				FAC species $10 \times 3 = 30$
				FACIL species 0 $x = 0$
5		Tabal O		
Herb Stratum (Plot size: 5 ft r)			/er	Column Totalo: 100 (A) 150 (B)
1 Carex squarrosa	40	~	OBL	
2. Bidens frondosa	30	~	FACW	Prevalence Index = B/A = 1.50
3. Apocynum cannabinum	10		FAC	Hydrophytic Vegetation Indicators:
4. Eleocharis palustris	10		OBL	✓ 1 - Rapid Test for Hydrophytic Vegetation
5. Scirpus cyperinus	10		OBL	✓ 2 - Dominance Test is >50%
6.				✓ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
a				
10	100%			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total Cov	/er	be present, unless disturbed or problematic.
1				Hadeselselle
2				Hydropnytic Vegetation
2		- Total Car		Present? Yes No
Pemarke: (Include photo numbers here or on a concrete o			/er	
remarks. (include proto numbers here of on a separate s	neet.)			
Hydrophytic vegetation present.				

Profile Desci	interes (Decould a to								
	iption: (Describe to	the depth	needed to docu	ment the	indicator	or confiri	m the abse	nce of indicators.)	
Depth (inches)	Matrix Color (moint)		Rede Color (moint)	ox Feature	S Turne ¹	1 a a ²	Textur	e Bemerke	
		<u></u>						e Remarks	
0-20	10 f R 5/2	90 1	018 5/6				Silty Ci	<u>ay</u>	
-									
-									
-									
				_					
					·				
-									
-									
¹ Type: C=Co	ncentration, D=Deplet	tion, RM=R	educed Matrix, M	IS=Masked	d Sand Gr	ains.	² Loca	ation: PL=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indica	tors for Problematic Hydric Soils ³ :	
Histosol (A1)		Sandy	Gleyed Ma	atrix (S4)		Co	oast Prairie Redox (A16)	
Histic Ep	pedon (A2)		Sandy	Redox (S5	5)		Da	ark Surface (S7)	
Black His	tic (A3)		Strippe	d Matrix (S	56)		Iro	on-Manganese Masses (F12)	
Hydroger	n Sulfide (A4)		Loamy	Mucky Mi	neral (F1)		Ve	ery Shallow Dark Surface (TF12)	
Stratified	Layers (A5)		Loamy	Gleyed M	atrix (F2)		Ot	her (Explain in Remarks)	
2 cm Mud	K (A10) Releve Derk Surface ((Deplete	ed Matrix (F3)				
Depieted	rk Surface (A12)	ATT)	Redox	ed Dark Suna	irface (F0)		³ Indica	ators of hydronhytic vegetation and	
Sandy M	ucky Mineral (S1)		Depier	Depressio	ns (F8)		wetland hydrology must be present.		
5 cm Mud	cky Peat or Peat (S3)						un	less disturbed or problematic.	
	en e								
Restrictive L	ayer (if observed):						1		
Type:	ayer (if observed):								
Restrictive L Type: Depth (inc	ayer (if observed): 		_				Hydric	Soil Present? Yes 🗹 No	
Restrictive L Type: Depth (inc Remarks:	hes):		_				Hydric	Soil Present? Yes No	
Restrictive L Type: Depth (inc Remarks:	hes):		_				Hydric	Soil Present? Yes <u>/</u> No	
Restrictive L Type: Depth (inc Remarks: Hydric s	oil present.		_				Hydric	Soil Present? Yes <u> /</u> No	
Restrictive L Type: Depth (inc Remarks: Hydric s	oil present.						Hydric	Soil Present? Yes <u> </u>	
Restrictive L Type: Depth (inc Remarks: Hydric s	oil present.						Hydric	Soil Present? Yes <u> </u>	
Restrictive L Type: Depth (inc Remarks: Hydric s	oil present.						Hydric	Soil Present? Yes <u>/</u> No	
Restrictive L Type: Depth (inc Remarks: Hydric s	oil present.						Hydric	Soil Present? Yes <u> /</u> No	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s HydroLoc Wetland Hyd	oil present.						Hydric	Soil Present? Yes <u> V</u> No	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Hydric s	oil present.	is required		pply)			Hydric	Soil Present? Yes <u> No</u> No ondary Indicators (minimum of two required	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Hydric s Sufface V	ayer (IT observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1)	e is required		pply) ained Leav	es (B9)		Hydric	Soil Present? Yes <u>Ves</u> No <u>no no n</u>	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Hydric s Sufface V Surface V High Wat	ayer (IT observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2)	e is required		pply) ained Leav auna (B13	res (B9)		Hydric	Soil Present? Yes <u>Ves</u> No <u>not service solutions (minimum of two requires Surface Soil Cracks (B6) Drainage Patterns (B10)</u>	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Striace V Surface V High Wat Saturatio	ayer (IT observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3)	is required	<u>d: check all that a</u> Water-Sta Aquatic F True Aqua	pply) ained Leav auna (B13 atic Plants	res (B9)) (B14)		Hydric	Soil Present? Yes <u>Ves</u> No <u>not</u> No <u>No</u> No <u>No</u> No <u>Yes</u> Ves <u>Ves</u> No <u>No</u> No	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric	ayer (IT observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1)	e is required	d: check all that a Water-Sta Aquatic F True Aqua Hydrogen	pply) ained Leav auna (B13 atic Plants a Sulfide O	es (B9)) (B14) dor (C1)		Hydric	Soil Present? Yes No ondary Indicators (minimum of two requin Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Sufface V — High Wat — Saturatio — Water Ma — Sediment	ayer (IT observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) i Deposits (B2)	e is required	d: check all that a Water-Sta Water-Sta Aquatic F True Aqua Hydrogen Oxidized	pply) ained Leav auna (B13 atic Plants a Sulfide O Rhizosphe	es (B9)) (B14) dor (C1) :res on Liv	ing Roots	Hydric Sec (C3)	Soil Present? Yes No ondary Indicators (minimum of two requin Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Hydric s Sufface V High Wat Saturatio Water Ma Sediment Drift Dep	ayer (It observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3)	e is required	d: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence	pply) ained Leav auna (B13 atic Plants o Sulfide O Rhizosphe of Reduce	res (B9)) (B14) dor (C1) eres on Liv ed Iron (C4	ing Roots	Hydric Sec 	Soil Present? Yes No ondary Indicators (minimum of two requir Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Stunted or Stressed Plants (D1)	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric s Hydric s Hydric s Suface V High Wat Saturatio Water Ma Sediment Algal Mat	ayer (It observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	e is required	d: check all that a Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind	pply) ained Leav auna (B13 atic Plants o Sulfide O Rhizosphe of Reduce on Reducti	res (B9)) (B14) dor (C1) eres on Liv ed Iron (C4 ion in Tille	ing Roots 4) d Soils (C	Hydric <u>Sec</u> (C3) (C3) <u>v</u>	Soil Present? Yes No ondary Indicators (minimum of two requir Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Stunted or Stressed Plants (D1) Geomorphic Position (D2)	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric	ayer (It observed): hes): oil present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) c or Crust (B4) osits (B5)	e is required	d: check all that a Water-Sta Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muc	pply) ained Leav auna (B13 atic Plants a Sulfide O Rhizosphe of Reduce on Reducti k Surface (res (B9)) (B14) dor (C1) eres on Liv ed Iron (C4 ion in Tille (C7)	ing Roots) d Soils (C	Hydric Hydric Sec: (C3) (C3) (C3) Y V V	Soil Present? Yes No ondary Indicators (minimum of two requir Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)	
Restrictive L Type: Depth (inc Remarks: Hydric s Hydric	ayer (It observed): hes): oil present. SY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) a or Crust (B4) posits (B5) n Visible on Aerial Image	is required	d: check all that a Water-Sta Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Mucl Gauge or	pply) ained Leav auna (B13 atic Plants a Sulfide O Rhizosphe of Reducti k Surface (Well Data	res (B9)) (B14) dor (C1) eres on Liv ed Iron (C4 ion in Tille (C7) (D9)	ing Roots 4) d Soils (C	Hydric <u>Sec</u> (C3) (C3) <u>v</u> <u>v</u>	Soil Present? Yes No ondary Indicators (minimum of two requir Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)	

Yes _____ No ____ Depth (inches): ____ Yes _____ No ____ Depth (inches): _____ Water Table Present? ___ No ___ Depth (inches): __ Wetland Hydrology Present? Yes ____ No __ Saturation Present? Yes ____ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Wetland hydrology present.

Surface Water Present?

Project/Site: AEP Fostoria to Lima		City/Coun	ty: Findlay,	/Hancock Sampling Date: 2022-07-01			
Applicant/Owner: AEP		-		State: Ohio Sampling Point: 1-W			
Investigator(s): Beth Hollinden, Chris Davisson			Section, Township, Range: OH01 T1N R10E SN3				
Landform (hillslope, terrace, etc.): Depression Toeslop	be		Local relief	(concave, convex, none): Concave			
Slope (%): 2 Lat: 41.066649		Long: -8	3.695703	Datum: WGS 84			
Soil Map Unit Name: Gwe1B1		· · _		NWI classification: N/A			
Are climatic / hydrologic conditions on the site typical for thi	s time of ve	ar? Yes	✓ No	(If no. explain in Remarks.)			
Are Vegetation 🖌 Soil 🖌 or Hydrology 🖌 s	significantly	disturbed	? Are *	'Normal Circumstances" present? Yes V No			
Are Vegetation Soil or Hydrology r	naturally pro	blematic?	? (If ne	eeded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map	showing	sampli	ing point l	ocations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes N	lo						
Hydric Soil Present? Yes N	lo	ls	the Sampled	l Area			
Wetland Hydrology Present? Yes N	lo	wi	thin a Wetlar	nd? Yes No			
VEGETATION – Use scientific names of plants	Located	betwe	een two j	power facilities. ORAM score of 23.			
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Domina Species	nt Indicator	Dominance Test worksheet: Number of Dominant Species			
1				That Are OBL, FACW, or FAC: <u>3</u> (A)			
2				Total Number of Dominant			
3				Species Across All Strata: <u>3</u> (B)			
4 5.				Percent of Dominant Species			
45.6		= Total C	over				
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:			
1				Total % Cover of: Multiply by:			
2				OBL species $\frac{30}{70}$ $x_1 = \frac{30}{140}$			
3				FACW species $\frac{70}{2}$ $x_2 = \frac{140}{2}$			
4				FAC species 0 $x_3 = 0$			
5				FACO species 0 $x = 0$			
Herb Stratum (Plot size: 5 ft r)		= Total C	over	Column Totals: 100 (A) 170 (B)			
1. Phalaris arundinacea	50	~	FACW				
2. Juncus torreyi	20	~	FACW	Prevalence Index = B/A = <u>1.70</u>			
3. Scirpus atrovirens		<u> </u>	OBL	Hydrophytic Vegetation Indicators:			
4. Carex stricta	10		OBL	✓ 1 - Rapid Test for Hydrophytic Vegetation			
5				2 - Dominance Test is >50%			
6				\checkmark 3 - Prevalence Index is ≤3.0 ¹			
7				4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)			
8				Problematic Hydrophytic Vegetation ¹ (Explain)			
9							
10 30 ft r	100%	= Total C	over	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Woody Vine Stratum (Plot size: 50 TTT)							
1				Hydrophytic			
2		- Total C		Present? Yes No			
Remarks: (Include photo numbers here or on a separate	sheet)		over				
Hydrophytic vegetation present.							

SOIL								Sampling Point: <u>I-W</u>
Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirn	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 5/2	90	10YR 6/6	10	С	PL / M	Silty Clay	
-								
-								
-								
-								
-								
'Type: C=Co	oncentration, D=Dep	pletion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gra	ains.	Location	: PL=Pore Lining, M=Matrix.
Hydric Soll I	ndicators:						Indicators	for Problematic Hydric Solis :
Histosol	(A1)		Sandy C	Gleyed M	atrix (S4)		Coast	Prairie Redox (A16)
Block Liv	olpedon (AZ)		Sandy F	Kedox (S	5)		Dark S	
	slic (A3) n Sulfide (A4)		Supped	a iviatrix (Mucky M	00) ineral (F1)		Iron-Ma	hallow Dark Surface (TE12)
Stratified	Lavers (A5)		Loamy	Gleved N	latrix (F2)		Other (Explain in Remarks)
2 cm Mu	ck (A10)		✓ Deplete	d Matrix	(F3)			
Depleted	Below Dark Surfac	e (A11)	Redox [Dark Surf	ace (F6)			
Thick Da	ark Surface (A12)	. ,	Deplete	d Dark S	urface (F7))	³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Redox [Depressio	ons (F8)		wetland	hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)					unless	disturbed or problematic.
Restrictive L	ayer (if observed)	:						
Туре:								
Depth (inc	ches):						Hydric Soll	Present? Yes No
Remarks:							1	
Hydric s	son present.							
	GY							
wetland Hyd	arology indicators:						a 1	
Primary Indic	ators (minimum of o	one is requi	red; check all that ap	oply)			Seconda	iry Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Lea	ves (B9)		Surf	ace Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	auna (B1	3)		Drai	nage Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plants	s (B14)		Dry-	Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide C	dor (C1)		Cray	rfish Burrows (C8)
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on Liv	ing Roots	(C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduc	ed Iron (C4	4)	Stur	ited or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Tille	d Soils (C6	6) 🖌 Geo	morphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		🖌 FAC	-Neutral Test (D5)
Inundatio	on Visible on Aerial	Imagery (B	7) Gauge or	Well Data	a (D9)			
Sparsely	Vegetated Concav	e Surface (B8) Other (Exp	plain in R	emarks)			
Field Observ	vations:							
Surface Wate	er Present?	'es	No Depth (in	ches):		_		
Water Table	Present?	′es	No Depth (in	ches):		_		
Saturation Pr	resent?	′es 🖌	No Depth (in	ches): <u>1</u> 4	1	_ Wetl	and Hydrology	/ Present? Yes 🧹 No
(includes cap	oillary fringe)		pitoring well poriol	abotes -	revioue inc	nections)	if available:	
Describe Rec	Joinen Data (stream	i gauge, m	sintoning well, aerial	priotos, p	evious ins	pecuons),	n available.	

Remarks:

Wetland hydrology present.

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-01
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-W UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1N R10E	SN3
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	Convex
Slope (%): 2 Lat: 41.066671	Long: -83.695599	Datum: WGS 84
Soil Map Unit Name: Gwe1B1	NWI classific	ation: N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🗾 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "Normal Circumstances" p	oresent? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area		
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes	No
Remarks:				

Upland point for Wetland 1-W. Man-made berm.

00 (i	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2.				
2				Total Number of Dominant
3				Species Across All Strata: <u>5</u> (B)
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
		= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index worksheet:
1. Elaeagnus umbellata	10	 ✓ 		Total % Cover of: Multiply by:
2				OBL species 0 x 1 = 0
2				EACW species 0 $x_2 = 0$
3	·			
4	·			FAC species 0 $x^3 = 0$
5				FACU species 100 x 4 = 400
- 4	10%	= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100 (A) 400 (B)
1. Dipsacus fullonum	50	~	FACU	
2. Festuca rubra	30	~	FACU	Prevalence Index = B/A = 4.00
3. Melilotus officinalis	20	~	FACU	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is $≤3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
7				data in Remarks or on a separate sheet)
8	·			Problematic Hydrophytic Vegetation ¹ (Explain)
9	·			
10				¹ Indicators of hydric soil and wetland hydrology must
00 ft -	100%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft r)				
1				Hydrophytic
2.				Vegetation
		= Total Cov		Present? Yes No V
Remarks: (Include photo numbers here or on a concrete o	theet)	- 10(a) 000		
Nemarka, (include proto numbers here of on a separate s	neer.)			
Hydrophytic vegetation absent.				

Profile Description: (Describe to the dep	th needed to document the indicator or confir	m the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	<u>Color (moist)</u> <u>%</u> <u>Type¹</u> Loc ²	Texture Remarks
0-6 10YR 5/3 100		Silty Clay
		·
-		
		· ·
		·
¹ Type: C=Concentration, D=Depletion, RM:	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	· · · · · · · · · · · · · · · · · · ·	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.
Restrictive Layer (if observed):		
Type: Gravel		
Depth (inches): 6		Hydric Soil Present? Yes No
Remarks:		
Hydria cail abcant		
nyunc son absent.		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is requi	red: check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)

Finally mulcators (minimum of one is required,	Secondary indicators (minimum or two required)				
Surface Water (A1)	Surface Soil Cracks (B6)				
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)			
Saturation (A3)	True Aquatic Plants (B14)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	pils (C6) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	FAC-Neutral Test (D5)			
Inundation Visible on Aerial Imagery (B7)	Gauge or Well Data (D9)				
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)				
Field Observations:					
Surface Water Present? Yes No	Depth (inches):				
Water Table Present? Yes No	Depth (inches):				
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					
Wetland hydrology absent					

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-01
Applicant/Owner: AEP	State: Ohio	_ Sampling Point: 1-AA
Investigator(s): Beth Hollinden, Chris Davisson	_ Section, Township, Range: OH01 T1N R10E S	SN9
Landform (hillslope, terrace, etc.): Hillslope	ocal relief (concave, convex, none): <u>Convex</u>	Slope (%): <u>1</u>
Subregion (LRR or MLRA): L Lat: 41.057047	Long: -83.710078	Datum: WGS 84
Soil Map Unit Name: OrA	NWI classific	ation: R2UBH
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes 🔽 No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantl	ly disturbed? Are "Normal Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes	No
Wetland Hydrology Present? Yes Vo No	_ If yes, optional Wetland Site ID: <u>I-AA</u> ort.)	

PEM. ORAM score of 30.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living F Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe) Ves No Depth (inches): 10	Wetland Hydrology Present? Yes <u></u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
Wetland hydrology present	

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominan Species?	t Indicator Status	Dominance Test worksheet:
1.	<u></u>	000000		Number of Dominant Species That Are OBL EACW or EAC: 1 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				
7				Prevalence Index worksheet:
/		Total Ca		I otal % Cover of:Multiply by:
Quelling (Ohm the Ohm terms of (Districtions, 15 ft r			over	$\begin{array}{c c} \text{OBL species} & \underline{0} & \underline{0} \\ \text{EACW species} & 100 & \underline{0} \\ \text{V} & \underline{0} \\ \text{CM} & \underline{0} \\ \text{CM} & \underline{0} \\ \text{CM} & \underline{0} \\ \text{CM} \\ \text{CM} & \underline{0} \\ \text{CM} \\ \text{CM}$
Sapling/Shrub Stratum (Plot size: 13111)				FAC species 0 $x_3 = 0$
1				FACU species 0 $x = 0$
2				UPL species 0 $x_5 = 0$
3				Column Totals: 100 (A) 200 (B)
4				20
5				Prevalence Index = $B/A = 2.0$
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
		= Total Co	over	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)				Y 3 - Prevalence Index is ≤3.0°
1. Phalaris arundinacea	100	~	FACW	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				1
4				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata
6.				Demitions of Vegetation of ata.
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of beight
8				
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb All borbossous (non woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
10				Woody vines – All woody vines greater than 3.28 ft in
12	100%			height.
20 # *	100 //	= Total Co	over	
Woody Vine Stratum (Plot size: 30 111)	10			
1. Convolvulus arvensis	10	<u> </u>		
2				
3				Hydrophytic
4				Vegetation Present? Yes V No
	10%	= Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			·
Hydrophytic vegetation present.				

SOIL

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confirm	the absence	of indicators.)
Depth (inches)	Matrix	0/	Redo	x Feature			Toxturo	Pomorko
		100		70	Type			
0-0	10 f R 4/2	100						Graver inclusions
6 - 20	10YR 4/2	95	10YR 5/6	5	C	М	Silty Clay	
-								
-								
						·		
						. <u> </u>		
-								
-								
_								
-								
					<u> </u>			
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surface	e (S8) (LR	R R,	2 cm M	Muck (A10) (LRR K, L, MLRA 149B)
Black Hi	stic (A3)		Thin Dark Surfa) ace (S9) (LRR R, M	LRA 149B)	5 cm N	Aucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Mucky I	Mineral (F	1) (LRR K	ζ, L)	Dark S	Surface (S7) (LRR K, L)
Stratified	Layers (A5)	<i></i>	Loamy Gleyed	Matrix (F2	2)		Polyva	alue Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surfac	e (A11)	Depleted Matrix	(F3) Inface (F6)	\		I hin D	Vark Surface (S9) (LRR K, L)
Sandy M	luckv Mineral (S1)		Depleted Dark	Surface (10)	, F7)		Piedm	ont Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F8)	,		Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red P	arent Material (F21)
Stripped	Matrix (S6)		•				Very S	Shallow Dark Surface (TF12)
Dark Su	nace (57) (LKK K, I	VILKA 149	D)				Other	(Explain in Remarks)
³ Indicators of	hydrophytic vegeta	tion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	or problemation	с.
Restrictive I	_ayer (if observed):	:						
Туре:								
Depth (ind	ches):						Hydric Soil	Present? Yes V No
Remarks:							•	
Hvdric s	oil present							

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock Sampling Date: 2022-07-01
Applicant/Owner: AEP	State: Ohio Sampling Point: 1-AA UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1N R10E SN9
Landform (hillslope, terrace, etc.): Hillslope	ocal relief (concave, convex, none): <u>Convex</u> Slope (%): <u>2</u>
Subregion (LRR or MLRA): L Lat: 41.056988	Long: -83.710258 Datum: WGS 84
Soil Map Unit Name: OrA	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y Are Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally p SUMMARY OF FINDINGS – Attach site map showing	rear? Yes No (If no, explain in Remarks.) y disturbed? Are "Normal Circumstances" present? Yes No roblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: (Explain alternative procedures here or in a separate reported to the separate repor	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:

Upland point for Wetland 1-AA. Mowed. Soil compacted.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aguatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hvdrogen Sulfide Odor (C1)	Cravfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	pils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches):	
Water Table Present? Yes No V Depth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No 🗸
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Ves No	Wetland Hydrology Present? Yes No
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes No ✓ Depth (inches): (includes capillary fringe) ✓ Depth (inches):	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No

Sampling Point: 1-AA UPL

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Juglans nigra	10	<u> </u>	FACU	Number of Dominant Species
1. <u></u>				That Are OBL, FACW, or FAC: \bigcirc (A)
2			·	Total Number of Dominant
3			. <u></u>	Species Across All Strata: <u>5</u> (B)
4			<u> </u>	Percent of Dominant Species
5			. <u> </u>	That Are OBL, FACW, or FAC: \bigcirc (A/B)
6				Prevalence Index worksheet:
7			. <u> </u>	Total % Cover of: Multiply by:
	10%	= Total Cov	/er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 0 $x 2 = 0$
1				FAC species $\frac{0}{110}$ x 3 = $\frac{0}{110}$
2				FACU species 10 $x = 440$
3.				UPL species 0 $x = 0$
4				Column Totals: $(A) $ $(A) $ (B)
5				Prevalence Index = $B/A = 4.0$
3				Hydrophytic Vegetation Indicators:
6			<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
/			. <u></u>	2 - Dominance Test is >50%
		= Total Cov	/er	$3 - Prevalence Index is \leq 3.0^1$
Herb Stratum (Plot size: 5 ft r)				 4 - Morphological Adaptations¹ (Provide supporting
1. Festuca rubra	60	~	FACU	data in Remarks or on a separate sheet)
2. Trifolium repens	20	~	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Parthenocissus quinquefolia	10		FACU	The difference of the other and the data of the other terms are set
4. Plantago lanceolata	10		FACU	be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.				Deminions of Vegetation Strata.
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
8			<u> </u>	a breast height (DDH), regardless of height.
0			······	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			. <u></u>	
12			<u> </u>	Woody vines – All woody vines greater than 3.28 ft in height.
	100%	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r)				
1			. <u> </u>	
2				
3				Hydrophytic
4				Vegetation Present? Yes No Y
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation absent				
right oprigate vegetation absent				

I

Profile Desc	cription: (Describe	to the dept	th needed to docu	ment the i	ndicator	or confirn	n the absence o	of indicators.)
Depth	Matrix		Redo	x Feature	S	~		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 5	10YR 5/3	100					Silty Clay	
							<u> </u>	
-								
-								
-								
				_				
-								
-								
-								
-								
¹ Type: C=Co	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surface	(S8) (LRF	R,	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast P	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (I	RR R, M	LRA 149B) 5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Mucky I	Mineral (F	1) (LRR K	, L)	Dark Su	Inface (S7) (LRR K, L)
Stratified	d Layers (A5)	- (644)	Loamy Gleyed	Matrix (F2	2)		Polyvalu	Le Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surfac	ce (A11)	Depleted Matrix	K (F3)			I nin Da	
	ark Surface (A12)		Redox Dark Su	Ifface (F6)			Iron-Mai	nganese Masses (F12) (LRR K, L, R)
Sandy IV	Aucky Mineral (S1)		Depleted Dark	Surface (F	.7)		Pleamol	
Sandy G	Dedex (SE)		Redux Depress	sions (Fo)			Mesic S	podic (TA6) (MILKA 144A, 145, 149B)
Sandy R	(edux (SS)						Keu Pai	allow Dark Surface (TE12)
Suipped	rface (S7) (I PP P)				Very Sil	Evolain in Remarks)
Dark Su			')					
³ Indicators of	f hydrophytic vegeta	tion and we	tland hydrology mus	st be prese	ent, unless	s disturbed	l or problematic.	
Restrictive I	Layer (if observed)	:		•				
Type: Gr	avel							
Denth (in	-h						Hydric Soil F	Present? Yes No 🗸
Depth (Ind	cnes): <u> </u>							
Remarks:								
Hydric s	oil absent							

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-01
Applicant/Owner: AEP	Stat	e: Ohio Sampling Point: 1-AB
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T	'1N R10E SN16
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): <u>C</u>	onvex Slope (%): <u>1</u>
Subregion (LRR or MLRA): Lat: 41.0	043466 Long: -83.7233	318 Datum: WGS 84
Soil Map Unit Name: SnA	N	WI classification: R2UBH
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes <u>V</u> No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrologysi	gnificantly disturbed? Are "Normal Circur	nstances" present? Yes 🗾 No
Are Vegetation, Soil, or Hydrology na	aturally problematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	howing sampling point locations, t	ransects, important features, etc.
Hydrophytic Vegetation Present? Yes V	Is the Sampled Area	
Hydric Soil Present? Yes Yes	within a Wetland?	Yes No
Wetland Hydrology Present? Yes <u>V</u> No	If yes, optional Wetland Site II	D: 1-AB
Remarks: (Explain alternative procedures here or in a sep	arate report.)	
PEM. ORAM score of 38.		

Water d Dodre Leve In Bestern	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	ils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u>V</u> No Depth (inches): <u>10</u>	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
Wetland hydrology present	

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominan	t Indicator Status	Dominance Test worksheet:
		<u>Species</u> :	Status	Number of Dominant Species
l			·	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3			·	Species Across All Strata: (B)
4			·	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co	ver	$\frac{1}{\text{OBL species}} \frac{100}{100} = \frac{100}{\text{x } 1 = 100}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 0 $x_2 = 0$
				FAC species 0 $x_3 = 0$
l			·	FACU species 0 $x 4 = 0$
2			·	UPL species 0 $x_5 = 0$
3				Column Totals: 100 (A) 100 (B)
4				10
5				Prevalence Index = B/A = 1.0
6				Hydrophytic Vegetation Indicators:
7.				✓ 1 - Rapid Test for Hydrophytic Vegetation
		– Total Co	vor	✓ 2 - Dominance Test is >50%
Horth Stratum (Distainer 5 ft r		- 1010100	VCI	\checkmark 3 - Prevalence Index is ≤3.0 ¹
<u>Typha angustifolia</u>	100			4 - Morphological Adaptations ¹ (Provide supporting
	100	<u> </u>		data in Remarks or on a separate sheet)
2			·	Problematic Hydrophytic Vegetation (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5	<u> </u>		<u> </u>	Definitions of Vegetation Strata:
6.				
7.	_			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
8			·	a bloast hoight (DDH), rogardioss of hoight.
0			·	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall
9			·	
10			·	Herb – All herbaceous (non-woody) plants, regardless
11			·	
12				Woody vines – All woody vines greater than 3.28 ft in beight
	100%	= Total Co	ver	noight.
Woody Vine Stratum (Plot size: 30 ft r)				
1. Convolvulus arvensis	10	~		
2				
3			·	Hudronkutio
0			·	Vegetation
4	10%		·	Present? Yes Ves No
Demonius, (include abote avanhere here er er e energie	<u>10 /o</u>	= Total Co	ver	
Remarks: (include photo numbers here or on a separate	sneet.)			
Hydrophytic vegetation present.				

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirn	n the absence o	f indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 6	10YR 4/2	95	10YR 5/6	5	С	PL / M	Silty Clay	
6 - 20	10YR 4/2	90	10YR 5/6	10	С	М	Silty Clay	
_								
		·						
		·						
		·						
					.			
-		·						
		·						
_								
_								
-								
-								
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:		,				Indicators for	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belov	w Surface	e (S8) (LR	R R,	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast Pi	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3) on Sulfide (A4)		Thin Dark Surfa	ace (S9) (Mineral (E		LRA 149B ´ I \) 5 cm Mu Dark Su	ICKY Peat or Peat (S3) (LRR K, L, R)
Nyuloge Stratified	1 avers (A5)		Loamy Gleved	Matrix (F2	1) (LKK K 2)	., ⊑)	Polyvalu	le Below Surface (S8) (I RR K. I.)
Depleted	d Below Dark Surface	e (A11)	 Depleted Matrix 	(F3)	-/		Thin Dar	rk Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)	· · ·	Redox Dark Su	rface (F6))		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (I	F7)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	Bleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy R	ledox (S5)						Red Par	rent Material (F21)
Stripped	Matrix (S6)						Very Sha	allow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 149	B)				Other (E	xplain in Remarks)
³ Indicators of	f hydrophytic vegetat	ion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	d or problematic.	
Restrictive I	Layer (if observed):							
Type:							Hydric Soil P	Present? Ves 🖌 No
Depth (Inc	ches):							
	- 11							
Hydric s	oli present							

Project/Site: AEP Fostoria to Lima	City/Count	_{y:} Findlay/Hancock	_ Sampling Date: 2022-07-01
Applicant/Owner: AEP		State: Ohio	Sampling Point: 1-AB UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, To	ownship, Range: OH01 T1N R10E	SN16
Landform (hillslope, terrace, etc.): Hillslope	Local relief (co	oncave, convex, none): Convex	Slope (%): <u>1</u>
Subregion (LRR or MLRA): L Lat: 4	1.043394	Long: -83.723432	Datum: WGS 84
Soil Map Unit Name: SnA		NWI classif	ication: N/A
Are climatic / hydrologic conditions on the site typical for the	nis time of year? Yes	✓ No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing samplir	ng point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No 🔽 Is ti	he Sampled Area	
Hydric Soil Present? Yes	No <u>v</u> with	hin a Wetland? Yes	No
Wetland Hydrology Present? Yes	No 🖌 If ye	es, optional Wetland Site ID:	

If yes, optional Wetland Site ID: _

Remarks: (Explain alternative procedures here or in a separate report.)

Upland point for Wetland 1-AB. Mowed. Soil compacted.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Livin	ng Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	_
Water Table Present? Ves No 🖌 Depth (inches):	
	- 1
Saturation Present? Yes No Pepth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (incles): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	■ Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (incles): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	■ Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (incles): Saturation Present? Yes No Depth (incles): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insponse Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No <u>*</u>
Water Fable Fresent: Fes No Depth (incles): Saturation Present? Yes No Depth (incles): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No _✓ nections), if available:
Saturation Present? Yes No _ Depth (inclus) Saturation Present? Yes No _ Depth (inclus) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insponse Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inclus) Saturation Present? Yes No _ Depth (inclus) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insponse Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes <u>No</u> ecctions), if available:
Saturation Present? Yes No Depth (incles): Saturation Present? Yes No Depth (incles): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insponse Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inclus) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inclus) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No

Sampling Point: 1-AB UPL

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominan Species?	t Indicator	Dominance Test worksheet:
1	<u></u>	000000		Number of Dominant Species
·				That Are OBL, FACW, or FAC: \bigcirc (A)
2	<u> </u>			Total Number of Dominant
3				Species Across All Strata: $\underline{2}$ (B)
4				Percent of Dominant Species That Are OPL $FACIAL er FAC: 0$ (A/P)
5	<u> </u>			That are OBL, FACW, or FAC: \bigcirc (AVB)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
	0%	= Total Co	over	OBL species 0 $x_1 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 0 $x_2 = 0$
1.				FAC species 0 $x_3 = 0$
2				FACU species 100 x 4 = 400
3				UPL species $\frac{0}{100}$ x 5 = $\frac{0}{100}$
3				Column Totals: <u>100</u> (A) <u>400</u> (B)
				Prevalence Index = $B/A = 4.0$
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Co	over	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)				3 - Prevalence Index IS ≤3.0
_{1.} Plantago lanceolata	70	~	FACU	data in Remarks or on a separate sheet)
2. Trifolium repens	20	~	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3 Ambrosia artemisiifolia	10		FACU	
A.				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	100%	– Total Co		height.
Weedy Vine Stratum (Plat aize: 30 ft r		- 10(0) 00		
1				
2				
3				Hydrophytic
4				Present? Yes No
		= Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			·
Hydrophytic vegetation absent				

Profile Description: (Describe to the dept	n needed to docu	ment the ir	ndicator	or confirm	the absence of indi	icators.)
Depth Matrix	Redo	x Features		0		
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 10 10YR 6/3 100					Silty Clay	
-						
					·	
-						
					·	
-						
\						
-						
¹ Type: C=Concentration, D=Depletion, RM=I	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil Indicators:					Indicators for Pro	oblematic Hydric Soils':
Histosol (A1)	Polyvalue Belo	w Surface (S8) (LRI	RR,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)			Coast Prairie	Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Suffa	ace (S9) (Li Minorol (E1)		LRA 149B) 5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Stratified Layers (A5)	Loamy Gleved	Matrix (F2)		, L)		(S7) (LKK K, L)
Depleted Below Dark Surface (A11)	Loany Oleyed Depleted Matri	(F3)			Thin Dark Su	face $(S9)$ (LRR K I)
Thick Dark Surface (A12)	Redox Dark Su	Inface (F6)			Iron-Mangane	ese Masses (F12) (LRR K. L. R)
Sandy Mucky Mineral (S1)	Depleted Dark	Surface (F7	7)		Piedmont Flo	odplain Soils (F19) (MLRA 149B)
Sandy Gleved Matrix (S4)	Redox Depress	sions (F8)	/		Mesic Spodic	(TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)		(- /			Red Parent M	laterial (F21)
Stripped Matrix (S6)					Very Shallow	Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)					Other (Explain	n in Remarks)
³ Indicators of hydrophytic vegetation and wet	land hydrology mu	st be prese	nt, unless	s disturbed	or problematic.	
Restrictive Layer (if observed):						
_{Type:} Gravel						
Depth (inches)· 10					Hydric Soil Prese	nt? Yes No 🖌
Remarks:						
Remains.						
Hydric soil absent						
1						

Project/Site: AEP Fostoria to Lima		City/County: Findlay/Hancock		Sampling Date: 2022-07-02			
Applicant/Owner: AEP		S	_{tate:} Ohio	_ Sampling Point: 1-AC			
Investigator(s): Beth Hollinden, Chris D	avisson	_ Section, Township, Range: OH0	1 T1N R10E S	SN16			
Landform (hillslope, terrace, etc.): Depress	ion L	ocal relief (concave, convex, none):	Concave	Slope (%): <u>1</u>			
Subregion (LRR or MLRA): L	Lat: 41.047855	Long: -83.71	889	Datum: WGS 84			
Soil Map Unit Name: <u>RtA</u>			NWI classific	ation: PFO1C/R2UBH			
Are climatic / hydrologic conditions on the sit	e typical for this time of y	year?Yes 🖌 No (If no	o, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🗾 🖌 No							
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present?	es 🖌 No	Is the Sampled Area	,				
Hydric Soil Present? Y	es 🖌 No	within a Wetland?	Yes 🔽	No			
Wetland Hydrology Present? Y	es 🖌 No	_ If yes, optional Wetland Site	_{e ID:} <u>1-AC</u>				
Remarks: (Explain alternative procedures	here or in a separate rep	port.)					
PEM. ORAM score of 34.							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
✓ Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Second	pils (C6) <u> Ceomorphic Position (D2)</u>
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Ves No 🖌 Dopth (inches):	
Saturation Present? Yes V No Depth (inches): 14	Wetland Hydrology Present? Yes 🔽 No
Saturation Present? Yes <u>V</u> No Depth (inches): <u>14</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u>
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> :
Saturation Present? Yes V Depth (inches): 14 (includes capillary fringe) Ves V No Depth (inches): 14 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective No No No No	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): _14 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> :
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): _14 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> :

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft r</u>)	% Cover	Species?	Status	Number of Dominant Species
1			·	That Are OBL, FACW, or FAC: <u>3</u> (A)
2			. <u> </u>	Total Number of Dominant
3.				Species Across All Strata: 3 (B)
			·	
4			·	Percent of Dominant Species
5			·	
6			·	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co	ver	$\frac{1}{\text{OBL species } 0} \qquad \frac{1}{\text{x } 1 = 0}$
Sopling/Shruh Strotum (Diot aize: 15 ft r)				EACW species 120 $x_2 = 240$
Saping/Silub Stratum (Plot size. 10101)	15			$\frac{1}{1} = \frac{1}{1} = \frac{1}$
1. Acer saccharinum	15	V	FACW	$\frac{1}{1} = \frac{1}{1} = \frac{1}$
2. Fraxinus pennsylvanica	5	~	FACW	$\frac{1}{10} \text{ species } \frac{0}{2} \text{ x} = \frac{1}{2}$
3				$\begin{array}{c} \text{OPL species} \underline{3} \\ \text{Opluses} \underline{120} \\ \underline{120} \\ \underline{120} \\ \underline{120} \\ \underline{120} \\$
4				Column Totals: $(A) \xrightarrow{240} (B)$
			·	Prevalence Index = $B/A = 2.0$
5			·	
6			·	Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
	20%	= Total Co	ver	✓ 2 - Dominance Test is >50%
Light Stratum (Distainer 5 ft r		- 1010100		\checkmark 3 - Prevalence Index is ≤3.0 ¹
<u>Herb Stratum</u> (Plot Size: <u>0 K1</u>) 1. Phalaris arundinacea	100	~	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
			·	¹ Indicators of hydric soil and wetland hydrology must
-			·	be present, unless disturbed of problematic.
5			·	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8.				Sonling/obrub Woody plants loss than 2 in DPH
9				and greater than or equal to 3.28 ft (1 m) tall.
			·	
10			·	Herb – All herbaceous (non-woody) plants, regardless
11				or size, and woody plants less than 5.20 it tail.
12				Woody vines – All woody vines greater than 3.28 ft in
	100%	= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r)				
Convolutivo envencio	10			
	10	~	·	
2				
3				Hydrophytic
4				Vegetation
··	10%	Tatal Ca		Present? Yes <u>Ves</u> No
Develop (herbede abede averable as been and a	1076	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Hydrophytic vegetation present.				

SOIL	
------	--

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the i	indicator	or confirm	the absence	of indicators.)		
Depth	Matrix		Redo	x Feature	S1	. 2	_			
(inches)	<u>Color (moist)</u>		Color (moist)		Type'		Texture	Remarks		
0 - 20	10YR 4/2	95	10YR 5/6	5	С	M	Silty Clay	Gravel inclusions		
-										
-										
					· . <u></u>	. <u> </u>				
-										
-										
-										
						·				
					·					
-										
_										
		·								
-					· . <u></u>	. <u> </u>				
'Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	Location	: PL=Pore Lining, M=Matrix.		
			Polyacius Bolov	v Surfaca	(S9) /I D	D D				
Histic Er	pipedon (A2)		MLRA 149B)	v Sunace	(30) (LR	Ν Ν,	Coast	Prairie Redox (A16) (LRR K. L. R)		
Black Hi	stic (A3)		Thin Dark Surfa	ce (S9) (I	_RR R, M	LRA 149B)	5 cm N	/lucky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	n Sulfide (A4)		Loamy Mucky M	lineral (F	1) (LRR K	(, L)	Dark S	Surface (S7) (LRR K, L)		
Stratified	l Layers (A5)	- (\ 4 4)	Loamy Gleyed I	Matrix (F2	2)		Polyva	lue Below Surface (S8) (LRR K, L)		
Depleted Thick Da	a Below Dark Surface	e (A11)	Depleted Matrix Redox Dark Sul	(F3) face (F6)			Inin D Iron-M	ark Surrace (S9) (LRR N, L) anganese Masses (E12) (IRR K I R)		
Sandy M	lucky Mineral (S1)		Depleted Dark S	Surface (F	7)		Piedm	ont Floodplain Soils (F19) (MLRA 149B)		
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F8)	,		Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy R	edox (S5)						Red Parent Material (F21)			
Stripped	Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	rface (S7) (LRR R, N	ILRA 149B)				Other	(Explain in Remarks)		
³ Indicators of	hvdrophytic vegetat	ion and we	tland hvdrology mus	t be prese	ent. unles	s disturbed	or problematio	2.		
Restrictive I	_ayer (if observed):				,		1	<u> </u>		
Туре:										
Depth (ind	ches):						Hydric Soil	Present? Yes 🖌 No		
Remarks:	,									
	- 11									
Hydric s	oli present									

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hanco	:k Samp	ling Date: 2022-07-02
Applicant/Owner: AEP		State: Ohio Sar	mpling Point: 1-AC UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OF	101 T1N R10E SN16	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, non-	_{e):} None	Slope (%): 0
Subregion (LRR or MLRA): L Lat: 41.04	8423 Long: -83.	718413	Datum: WGS 84
Soil Map Unit Name: <u>RtA</u>		NWI classification:	N/A
Are climatic / hydrologic conditions on the site typical for this tir	ne of year? Yes 🔽 No (I	f no, explain in Remarks	5.)
Are Vegetation, Soil, or Hydrology sign	ificantly disturbed? Are "Normal	Circumstances" present	? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natu	Irally problematic? (If needed, ex	plain any answers in Re	emarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>r</u> No <u>r</u> No <u>r</u>	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:
Remarks: (Explain alternative proced	lures here or in a	a separate report.)	
Upland point for Wetlan	d 1-AC.		

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living R	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	ils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes No <u></u> Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:
Remarks:	
Wetland hydrology absent.	

Sampling Point: 1-AC UPL

Trop Stratum (Plat size: 30 ft r)	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Thee Stratum</u> (Plot size: <u>30 rt r</u>)	% Cover	Species?	Status	Number of Dominant Species
1	·			That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 50 (A/B)
6				
7	·			Prevalence Index worksheet:
1	·			Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $\frac{0}{20}$ $x_1 = \frac{0}{40}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $\frac{20}{0}$ $x_2 = \frac{40}{0}$
1				FAC species $\frac{0}{45}$ $x_3 = \frac{0}{180}$
2				FACU species 45 $x 4 = 180$
3				UPL species $\frac{15}{90}$ $x = \frac{75}{205}$
	·			Column Totals: <u>60</u> (A) <u>295</u> (B)
4	·			Prevalence Index = $B/A = 3.69$
5	·			
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	/er	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r				3 - Prevalence Index is ≤3.0'
1 Cirsium arvense	45	~	FACU	 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
Bhalaris arundinassa	20		EACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	20		FACW	
3. Asclepias syriaca	15		UPL	¹ Indicators of hydric soil and wetland hydrology must
4	·			be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6.				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
1	·			at breast height (DBH), regardless of height.
8	·			Sapling/shrub – Woody plants less than 3 in. DBH
9	·			and greater than or equal to 3.28π (1 m) tail.
10	·			Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	80%	- Total Cov	/er	height.
Weath Vine Strature (Distained 30 ft r		- 10(a) 00		
(Plot size. <u>contra</u>)				
1	·			
2				
3				Hydrophytic
4.				Vegetation
	·	- Total Cov	/er	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet)	- 10101 005		
	,1001.)			
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i	indicator	or confirn	n the absence o	of indicators.)
Depth	Matrix		Redo	x Feature	S .	~		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 20	10YR 3/3	100					Clay Loam	
					·		·	
-								
-								
					·			
-								
					·		<u> </u>	
-								
-								
_								
							·	
-							·	
¹ Type: C=Co	oncentration, D=Dep	pletion, RM=	Reduced Matrix, M	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)	-	Polyvalue Belo	w Surface	(S8) (LR	R R,	2 cm M	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast P	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)	-	Thin Dark Surfa	ace (S9) (I	_RR R, M	LRA 149B) 5 cm Mi	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)	-	Loamy Mucky I	Mineral (F	1) (LRR K	(, L)	Dark Su	irface (S7) (LRR K, L)
Stratified	d Layers (A5)	· • • • •	Loamy Gleyed	Matrix (F2	<u>')</u>		Polyvalu	ue Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surfac	ce (A11)	Depleted Matrix	k (F3)			Thin Da	rk Surface (S9) (LRR K, L)
Thick Da	ark Sufface (A12)	-	Redox Dark Su	ifface (F6)			Iron-Ma	nganese Masses (F12) (LRR K, L, R)
Sandy M	Aucky Mineral (S1)	-	Depleted Dark	Surface (F	-7)		Piedmo	nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	bieyed Matrix (S4)	-	Redox Depress	sions (F8)				poalc (1A6) (MLRA 144A, 145, 149B)
Sandy R	(edox (S5)						Red Pa	rent Material (F21)
Stripped	rface (SZ) (LDD D		\				Very Sn	allow Dark Surface (TF12)
Dark Su	(37) (LKK K,	WILKA 149D)					zpiain in Remarks)
³ Indicators of	f hydrophytic vegeta	tion and wet	land hydrology mus	st he prese	ent unles	s disturbed	l or problematic	
Restrictive	Laver (if observed)	:	iana nyarorogy ma					
Type								
Type							Hydria Sail [Procent? Yes No V
Depth (inc	ches):						Hydric Soli F	
Remarks:								
Hydric s	oil absent							
riyane s	on absent.							

Project/Site: AEP Fostoria to Lima	_ City/County: Fostoria/Hancock S	Sampling Date: 2022-06-29		
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-SP-001		
Investigator(s): Beth Hollinden, Chris Davisson	_ Section, Township, Range: OH01 T2N R12E SI	N12		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): <u>None</u>	Slope (%): 0		
Subregion (LRR or MLRA): L Lat: 41.15021	Long: -83.438455	Datum: WGS 84		
Soil Map Unit Name: SmA	NWI classificat	ion: N/A		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significant	tly disturbed? Are "Normal Circumstances" pre	esent? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answers	in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:		
Remarks: (Explain alternative procedures here or in a separate report.)					
Not a wetland.					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living R	oots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soi	ls (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>No</u> Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes No 🖌 Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No V Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Vo Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Mo Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Remarks:	Wetland Hydrology Present? Yes No <u>✓</u>
Saturation Present? Yes No Compared Depth (inches): Compared Depth (inches): Compared Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hvdrology absent.	Wetland Hydrology Present? Yes No <u>*</u>
Saturation Present? Yes No Compared Depth (inches): Compared Depth (inches): Compared Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No <u> </u>
Saturation Present? Yes No Compared Depth (inches): Compared (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Compared Depth (inches): Compared (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No <u>*</u>
Saturation Present? Yes No Compared Depth (inches): Compared (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No <u>*</u>
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No <u>*</u>
Saturation Present? Yes No <u>V</u> Depth (inches): <u>(includes capillary fringe)</u> Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Saturation Present? Yes No <u>V</u> Depth (inches): <u>(includes capillary fringe)</u> Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 Robinia pseudoacacia	5	<u> </u>	FACU	Number of Dominant Species	
···					
2				Total Number of Dominant	
3				Species Across All Strata.	
4			<u> </u>	Percent of Dominant Species	
5					
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	5%	= Total Cov	ver	OBL species 0 x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 0 $x_2 = 0$	
_{1.} Robinia pseudoacacia	10	~	FACU	FAC species 30 x 3 = 90	
2.				FACU species $\frac{85}{2}$ x 4 = $\frac{340}{2}$	
3				UPL species $\frac{0}{115}$ x 5 = $\frac{0}{120}$	
0				Column Totals: (A) (B)	
4				Prevalence Index = $B/A = 3.74$	
5					
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
	10%	= Total Cov	ver	2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft r)				$-$ 3 - Prevalence index is ≤ 3.0	
_{1.} Festuca rubra	30	~	FACU	data in Remarks or on a separate sheet)	
2. Toxicodendron radicans	30	~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
3 Cirsium arvense	20	~	FACU		
Parthenocissus guinguefolia	20	~	FACU	¹ Indicators of hydric soil and wetland hydrology must	
5				be present, unless disturbed of problematic.	
5				Definitions of Vegetation Strata:	
б				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8				Sapling/shrub – Woody plants less than 3 in. DBH	
9				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb - All herbaceous (non-woody) plants, regardless	
11				of size, and woody plants less than 3.28 ft tall.	
12	<u> </u>			Woody vines – All woody vines greater than 3.28 ft in	
	100%	= Total Cov	ver	height.	
Woody Vine Stratum (Plot size: 30 ft r)					
1					
··					
2					
3				Hydrophytic Vegetation	
4				Present? Yes No	
		= Total Cov	ver		
Remarks: (Include photo numbers here or on a separate	sheet.)				
Hydrophytic vegetation absent.					
SOIL					
------	--				
------	--				

Profile Desc	cription: (Describe	to the de	oth needed to docur	ment the	indicator	or confirm	the absence of indicators.)			
Depth	Matrix		Redo	x Feature	S	0				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture Re	marks		
0 - 13	10YR 5/2	100					Silty Clay			
13 - 20	10YR 5/2	97	10YR 5/6	3	С	М	Silty Clay			
_										
-										
-										
-										
-										
-										
-										
-		·								
			-Reduced Matrix M	S-Masker	d Sand Gr	aine	² l ocation: Pl –Pore Lining	M-Matrix		
Hydric Soil	Indicators:					ams.	Indicators for Problematic	Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Belo	w Surface	(S8) (LR	R R,	2 cm Muck (A10) (LRR I	K, L, MLRA 149B)		
Histic Ep	pipedon (A2)		MLRA 149B)			Coast Prairie Redox (A1	6) (LRR K, L, R)		
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (I		LRA 149B	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydroge Stratifior	en Sulfide (A4)		Loamy Mucky r	Vilneral (F Motrix (E	1) (LRR K 2)	., L)	Dark Surface (S7) (LRR K, L)			
Stratified	d Below Dark Surface	e (A11)	Loany Gleyed	(F3)	-)		Thin Dark Surface (S9) ($(\mathbf{I} \mathbf{R} \mathbf{R} \mathbf{K} \mathbf{I})$		
Thick Da	ark Surface (A12)	0 (/ (11)	Redox Dark Su	rface (F6)			Iron-Manganese Masses (F12) (I RR K. L. R)			
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (I	=7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy G	Gleyed Matrix (S4)		Redox Depress	ions (F8)	,		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy R	Redox (S5)						Red Parent Material (F21)			
Stripped	Matrix (S6)						Very Shallow Dark Surfa	ace (TF12)		
Dark Su	rface (S7) (LRR R, N	/ILRA 149	B)				Other (Explain in Remar	'ks)		
³ Indicators of	f hydrophytic vegetat	tion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	or problematic.			
Restrictive I	Layer (if observed):									
Type:										
Depth (ind	ches):						Hydric Soil Present? Yes	No		
Remarks:										
Hydric s	oil absent.									

Project/Site: AEP Fostoria to Lima	_ City/County: Findlay/Hancock	Sampling Date: 2022-07-02
Applicant/Owner: AEP	State: Ohio	_ Sampling Point: 1-SP-006
Investigator(s): Beth Hollinden, Chris Davisson	_ Section, Township, Range: OH01 T1N R10E S	SN16
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): Convex	Slope (%): <u>3</u>
Subregion (LRR or MLRA): Lat: 41.047617	2 Long: -83.719102	Datum: WGS 84
Soil Map Unit Name: <u>HpA</u>	NWI classifica	ation: R2UBH
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significant	tly disturbed? Are "Normal Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answer	s in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)								
Not a wetland. Riparian corridor of stream.								

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living I	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	bils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	 FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🔽 Depth (inches):	
Water Table Present? Ves No 🖌 Depth (inches):	
Saturation Present? Yes No Comparison Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Mo Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Faster Field Field Field Field F	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No _⊻ tions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No _⊻ tions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No

Sampling Point: 1-SP-006

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.		0000000		Number of Dominant Species That Are OBL EACW or EAC: 6 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
4				Boreant of Dominant Species
5.				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6.				Brevelence Index werkeheet:
7.				Total % Covor of: Multiply by:
		= Total Cov	/er	$\frac{1}{0} \frac{1}{1} \frac{1}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 35 $x_2 = 70$
Celtis occidentalis	25	~	FAC	FAC species 45 $x_3 = 135$
	15		FACW	FACU species 0 x 4 = 0
	15			UPL species 0 x 5 = 0
3. Salix higra	15		UBL	Column Totals: <u>95</u> (A) <u>220</u> (B)
4				Prevalence Index = B/A = 2.32
5				
6			·	Hydrophytic Vegetation Indicators:
7			. <u> </u>	1 - Rapid Test for Hydrophytic Vegetation
	55%	= Total Cov	/er	✓ 2 - Dominance Test is >50% 2 - Deminance Index is <2.0 ¹
Herb Stratum (Plot size: 5 ft r)				3 - Prevalence Index IS ≤3.0
1. Phalaris arundinacea	20	~	FACW	data in Remarks or on a separate sheet)
2. Toxicodendron radicans	10	~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata
6.				Demitions of Vegetation offata.
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
8				
0			·	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall
9			·	
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11			·	
12				woody vines – All woody vines greater than 3.28 ft in height.
	30%	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r)				
1. Vitis riparia	10	~	FAC	
2				
3				Hydrophytic
4.				Vegetation
	10%	= Total Cov	/er	Present? fes No
Remarks: (Include photo numbers here or on a separate s	sheet.)		-	1
Hydrophytic vocatation procent	,			
Hydrophytic vegetation present.				

Depth Matrix Redox Features (inches) Color (moist) % Type Loc" Texture Remarks 0 - 6 10YR 5/3 100
(inches) Color (moist) % Color (moist) % Type: Loc. Texture Remarks 0 - 6 10YR 5/3 100
0 - 6 10YR 5/3 100 stity clay Leam - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <
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. Hydric Soil Indicators: . . Histosol (A1) . Polyvalue Below Surface (S8) (LRR R, Histosol (A2) . Histosol (A3) . . . Histosol (A1) . Polyvalue Below Surface (S8) (LRR R, Histosol (A2) . Black Histic (A3)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- -
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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Linit Linit Epipedon (A2) Indicators for Problematic Hydric Soils ³ : Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Thin Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR M, MLRA 149B) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. No Remarks: Hydric Soil Present? Yes No
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pote Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :
Indicators of Holenators. Polyvalue Below Surface (S8) (LRR R, Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muck (A10) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sitipped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. No ✓ Remarks: Hydric Soil Present? Yes No ✓
Inductor (iff) Importance (sof) (LRR K, iff) Importance (sof) (LRR K, iff) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Red Parent Material (F21) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Merescent? Yes No Yes Remarks: Hydric Soil Present? Yes No Yes
Black Histic (A3)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Gravel Depth (inches): 6 No Memarks:
Indic Varia Sufface (A12) Implement Sufface (A12) Implement Sufface (A12) Sandy Mucky Mineral (S1) Depleted Dark Sufface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Very Shallow Dark Sufface (TF12) Dark Sufface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Mesic Soil Present? Yes No Remarks:
 Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Gravel Depth (inches): 6 Hydric Soil Present? Yes No No Moderated
Stripped Matrix (S6)Very Shallow Dark Surface (TF12)Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):Type: GravelDepth (inches): 6No Remarks: Hydric soil absent. Soil bigbly compacted
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Gravel Depth (inches): 6 No Remarks: Hydric soil absent Soil bigbly compacted
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):
Restrictive Layer (if observed): Type: Gravel Depth (inches): 6 Remarks:
Type: Gravel Depth (inches): 6 Remarks: Hydric soil absent. Soil bigbly compacted
Type: Oracle Depth (inches): 6 Remarks: Hydric Soil Present? Hydric soil absent Soil bigbly compacted
Depth (inches): O Remarks:
Remarks: Hydric soil absent Soil highly compacted
Hydric soil absent. Soil highly compacted

Project/Site: AEP Fostoria to Lima	_ City/County: Findlay/Hancock Sar	mpling Date: 2022-07-02
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-SP-007
Investigator(s): Beth Hollinden, Chris Davisson	_ Section, Township, Range: OH01 T1N R10E SN2	29
Landform (hillslope, terrace, etc.): Hillslope	ocal relief (concave, convex, none): Convex	Slope (%): <u>2</u>
Subregion (LRR or MLRA): L Lat: 41.01945	Long: -83.744713	Datum: WGS 84
Soil Map Unit Name: RhA	NWI classification	n: R4SBC
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes 🗾 No (If no, explain in Rema	arks.)
Are Vegetation, Soil, or Hydrology significantl	y disturbed? Are "Normal Circumstances" prese	ent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in	Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes M Yes M Yes M	No 🔽 No 🔽 No 🔽	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)								
Not a wetland. Riparian corridor of stream.								

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living F	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	ils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No V Depth (inches):	
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Ves No _ Depth (inches):	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes <u>No</u> ions), if available:

Sampling Point: 1-SP-007

T 0	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>SOTT</u>)	% Cover	Species?	Status	Number of Dominant Species
1			·	That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>4</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25 (A/B)
6.				
7			·	Trevalence Index worksneet:
/		Tatal Oa	·	I otal % Cover of: Multiply by:
15 4		= Total Co	ver	$\begin{array}{c} \text{OBL species} \underline{0} \\ \text{FACIAL species} \underline{0} \\ \text{SACIAL species} \underline{0} \\ \text{SACIAL species} \underline{0} \\ \text{SACIAL species} \\ SACIAL speci$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 0 $x_2 = 0$
1				FAC species 10° $x_3 = 00^{\circ}$
2			<u> </u>	FACU species $\frac{100}{20}$ $x = \frac{100}{100}$
3.				$\begin{array}{c} \text{UPL species} \underline{20} \qquad x_5 = \underline{100} \\ 110 \qquad (1) = \underline{450} \\ 150 \qquad (2) \end{array}$
A				Column Totals: <u>110</u> (A) <u>450</u> (B)
T			·	Prevalence Index = $B/A = \frac{4.09}{1000}$
3			·	Hydrophytic Vocatation Indicators:
6			<u> </u>	1 Papid Tast for Hydrophytic Vegetation
7			·	2 Dominanco Test in >50%
		= Total Co	ver	$\frac{2}{2} = 2 - Dominance Test is > 50\%$
Herb Stratum (Plot size: 5 ft r)				$\frac{1}{2} = \frac{5 - \text{Flevalence index is } \geq 5.0}{4 - \text{Morphological Adaptations}^1 (\text{Provide supporting})}$
1. Cirsium arvense	50	~	FACU	data in Remarks or on a separate sheet)
2. Festuca rubra	30	~	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Bromus inermis	20	~	UPL	
4				¹ Indicators of hydric soil and wetland hydrology must
			·	be present, unless disturbed of problematic.
5			·	Definitions of Vegetation Strata:
6			<u> </u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			·	at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb - All berbaceous (non-woody) plants, regardless
11			·	of size, and woody plants less than 3.28 ft tall.
			·	Weady vince All weady vince greater than 2.29 ft in
12			·	height.
	100%	= Total Co	ver	
Woody Vine Stratum (Plot size: 30 ft r)				
_{1.} Vitis riparia	10	~	FAC	
2.				
3				Undrandutia
			·	Vegetation
4	10%		·	Present? Yes No V
	10%	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Hydrophytic vegetation absent.				

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of	indicators.)		
Depth	Matrix		Redo	x Features	6					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 8	10YR 5/1	100					Silty Clay Loam			
		<u> </u>								
-							<u> </u>			
-										
-							<u> </u>			
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				·			·			
-										
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-					<u> </u>					
¹ Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: P	L=Pore Linii	ng, M=Matri	K
Hydric Soil I	ndicators:						Indicators for	Problemati	ic Hydric So	oils°:
Histosol	(A1)	_	Polyvalue Belov	w Surface	(S8) (LRF	RR,	2 cm Muc	k (A10) (LRI	R K, L, MLR	A 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast Pra	irie Redox (/	A16) (LRR k	K, L, R)
Black His	stic (A3)	_	_ Thin Dark Surfa	ace (S9) (L	.RR R, MI	LRA 149B) 5 cm Muc	ky Peat or P	Peat (S3) (LF	RR K, L, R)
Hydroge	n Sulfide (A4)	-	_ Loamy Mucky N	Mineral (F1) (LRR K	, L)	Dark Surfa	ace (S7) (LR	RR K, L)	
Stratified	Layers (A5)	<u> </u>	_ Loamy Gleyed	Matrix (F2)		Polyvalue	Below Surfa	ace (S8) (LR	(R K, L)
Depleted	Below Dark Surface	e (A11)	_ Depleted Matrix	(F3)			Thin Dark	Surface (SS	9) (LRR K, L)
Thick Da	ark Sufface (A12)	_	_ Redox Dark Su	rface (F6)			Iron-Mang	anese Mass	ses (F12) (L	$\mathbf{R}\mathbf{K}\mathbf{K},\mathbf{L},\mathbf{R}$
Sandy M	lucky Mineral (S1)	-	_ Depleted Dark	Surface (F	()		Piedmont	Floodplain S	Solis (F19) (I	MLRA 149B)
Sandy G	aday (CC)	-	_ Redox Depress	ions (F8)			Mesic Spo	Daic (1A6) (N		, 145, 149B)
Sandy R	edox (S5)						Red Parer	nt Material (I	F21) 	
Suipped	TVIALTIX (SO)						Very Shar	iow Dark Su)
Dark Sur		ILKA 149D)						plain in Rem	iarks)	
³ Indicators of	bydrophytic vogotat	ion and woth	and hydrology mus	t ha proce	ont unloca	dicturbod	l or problematic			
Restrictive I	aver (if observed):		and hydrology mus	si be piese	int, unies:					
	ayer (il observeu). avel									
Type: Of										
Depth (inc	ches): <u>8</u>						Hydric Soil Pre	esent? Ye	es	No
Remarks:										
Hyaric s	oll absent. So	bii nigni	y compacte	a.						

City/County: Findlay/Hancock	Sampling Date: 2022-07-01				
State: Ohio Sampling Point: 1-X					
Section, Township, Range: OH01 T1N R10E S	SN10				
ocal relief (concave, convex, none): <u>None</u>	Slope (%): 0				
Long: -83.699761	Datum: WGS 84				
NWI classific	ation: PFO1C				
ear? Yes 🗾 No (If no, explain in R	emarks.)				
y disturbed? Are "Normal Circumstances" p	resent? Yes 🖌 No				
roblematic? (If needed, explain any answer	rs in Remarks.)				
g sampling point locations, transects	, important features, etc.				
Is the Sampled Area within a Wetland? Yes <u></u>	No				
If yes, optional Wetland Site ID: 1-X					
ort.)					
	City/County: Findlay/HancockState: OhioState: OhioNONONONONONONONONONONONONO				

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	bils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Ves No 🖌 Depth (inches):	
Saturation Present? Yes No Pepth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Pepth (inches):	Wetland Hydrology Present? Yes <u>V</u> No No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes <u>Ves</u> No <u>No</u> tions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u> No</u> No tions), if available:
Water Fable Fresent: Fes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Water Fable Fresent: Fes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u> No</u> No tions), if available:
Water Fable Fresent: Fes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Water Fable Fresent? Fes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u>V</u> No <u>No</u> tions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology present	Wetland Hydrology Present? Yes <u>V</u> No <u></u> tions), if available:

Trop Stratum (Plat size: 30 ft r)	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>nee stratum</u> (not size. <u>so rer</u>)	<u>_/8 COVEI</u>			Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata. (B)
4				Percent of Dominant Species That Are OBL_EACW_ or EAC: 100 (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	ver	OBL species $\frac{0}{20}$ x 1 = $\frac{0}{100}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 90 $x_2 = 180$
1	<u> </u>			FAC species $\frac{10}{2}$ x 3 = $\frac{30}{2}$
2				FACU species 0 $x 4 = 0$
3.				UPL species 0 $x = 0$
4	·			Column Totals: (A) (B)
5				Prevalence Index = $B/A = 2.10$
5			·	Hydronhytic Vagetation Indicators:
6	- <u> </u>			1 Papid Tast for Hydrophytic Vegetation
7				✓ 1 - Napid Test for Hydrophylic Vegetation
		= Total Cov	ver	\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot size: 5 ft r)				4 - Morphological Adaptations ¹ (Provide supporting
_{1.} Phalaris arundinacea	90	~	FACW	data in Remarks or on a separate sheet)
2. Erigeron philadelphicus	10		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				1
4.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vandation Strates
6				Definitions of vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
<i>1</i>				at breast height (DBH), regardless of height.
8	- <u> </u>			Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.26 it (1 m) tail.
10				Herb – All herbaceous (non-woody) plants, regardless
11			. <u></u>	of size, and woody plants less than 5.26 it tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	100%	= Total Co	ver	neight.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2.				
3	·			Hydronhytic
4				Vegetation
т	·	Tetal Ca		Present? Yes V No
Pemarke: (Include photo numbers here or on a separate s	sheet)		ver	l
	sneet.)			
Hydrophytic vegetation present.				

SOIL	
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abady	nches)	<u>Matrix</u>	%	Color (moist)	ox Feature		loc^2	Texture	Remarks
20 10 H K 0/2 20 10 H K 3/2 3 C 11 / M 3 H C K 3/2 .	0 = 20	10VP 6/2	95		5			Silty Clay	Remains
	0 - 20	1011 0/2	35	1011 3/0		<u> </u>			
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.	-								
	-								
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Pe: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. Cocation: PL-Pore Lining, M-Matrix. Indicators for Problematic Hydric Soils': Indicators for Problematic Hydric Soils': Indicators for Problematic Hydric Soils': Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Start Histic Explandon (A2) MLRA 149B) Start Attage (S3) (LRR R, MLRA 149B) Start Attage (S3) (LRR R, MLRA 149B) Start Attage (S3) (LRR R, MLRA 149B) Start Attage (S4) (LRR K, L) Dark Surface (S3) (LRR K, L) Start (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Stripped Matrix (S6) S	-								
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ² : Indicators for Problematic Hydric Soils ² . Coast Praine Redox (A16) (LRR K, L, MRA 1498) Black Histic (A3) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) Denk Surface (S9) (LRR R, MLRA 1498) Denk Surface (A11) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Sandy Kouface (K12) Sandy Kouface (K12) Sandy Cleyed Matrix (S4) Sandy Cleyed Matrix (S4) Sandy Cleyed Matrix (S6) Dark Surface (S7) (LRR R, MLRA 1498) Mesic Spodie (TA6) (MLRA 144A, 145, 14 Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 1498) Mesic Spodie (TA6) (MLRA 144A, 145, 14 Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodie (TA6) (MLRA 144A, 145, 14 Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Metric Soil Present? Yes <u>v</u> No marks: rdric soil present	-								
dric Soil Indicators: Indicators for Problematic Hydric Soils ² : Histos Epipedon (A2)	/pe: C=Co	oncentration, D=Dep	pletion, RM	I=Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histo Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Strattified Layers (A5) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Strady Mucky Mineral (S1) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Strady Gleyed Matrix (S4) Redox Depressions (F8) Meeic Spocie (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) sticators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): No narks: 'dric soil present' Yes No narks: 'dric soil present' Yes No Narks No Narks No Narks No	dric Soil I	ndicators:						Indicators for	r Problematic Hydric Soils ³ :
Histic Epipedon (A2) MLRA 149B) Coast Praine Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Goast Praine Redox (A16) (LRR K, L, L) Pyotest Surface (A1) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) / Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thic Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Solis (F19) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): harks: 'rdric soil present	Histosol	(A1)		Polyvalue Belo	w Surface	e (S8) (LR	R R,	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)
Data Halto (V)	Histic Ep	vipedon (A2) stic (A3)		MLRA 1498 Thin Dark Surf	5) 200 (S9) (I PA 1/0R)	Coast Pra	airie Redox (A16) (LRR K, L, R) kv Peat or Peat (S3) (I PP K I –
Stratified Layers (A5)	Hydroge	n Sulfide (A4)		Loamy Mucky	Mineral (F	-1) (LRR #	τις 1430 <i>)</i> (, L)	Dark Surf	ace (S7) (LRR K, L)
Depleted Below Dark Surface (A11) ✓ Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12)	Stratified	Layers (A5)		Loamy Gleyed	Matrix (F	2)		Polyvalue	Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L Sandy Gleyed Matrix (S4) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Gleyed Matrix (S6) Ked Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ticators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Nest Soil Present? Yes v No marks: r/dric soil present	Depleted	Below Dark Surfac	e (A11)	✓ Depleted Matri	x (F3)			Thin Dark	Surface (S9) (LRR K, L)
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (T4) (MLKA 144, 145, 14 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ficators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Depth (inches): Hydric Soil Present? Yes No narks: // dric soil present	I hick Da	irk Surface (A12)		Redox Dark Su	urface (F6 Surface () 57)		Iron-Mang	ganese Masses (F12) (LRR K, L, Eleodolain Soils (E10) (MI BA 14
Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Type: Depth (inches): Hydric Soil Present? Yes No narks: rdric soil present // Constant //	Sandy G	leved Matrix (S4)		Redox Depress	sions (F8))		Mesic Spo	odic (TA6) (MLRA 144A, 145, 14
Stripped Matrix (S6)	_ Sandy R	edox (S5)			· · · ·			Red Pare	nt Material (F21)
Dark Surface (\$7) (LRR R, MLRA 149B) Other (Explain in Remarks)	Stripped	Matrix (S6)						Very Shal	low Dark Surface (TF12)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	_ Dark Sur	face (S7) (LRR R, I	MLRA 149	B)				Other (Ex	plain in Remarks)
strictive Layer (if observed): Type: Depth (inches): marks: /dric soil present	dicators of	hydrophytic vegeta	tion and w	etland hydrology mu	st be pres	sent, unles	s disturbed	or problematic.	
Type: Depth (inches): No marks: /dric soil present	strictive l	ayer (if observed)	:	, ,,					
Depth (inches): No marks: vdric soil present									
marks: /dric soil present	Туре:							Hydric Soil Pro	esent? Yes 🖌 No 🔜
/dric soil present	Type: Depth (inc	ches):							
	Type: Depth (inc marks:	ches):							
	Type: Depth (inc marks:	oil procopt							
	Type: Depth (inc marks: /dric s	oil present							
	Type: Depth (inc marks: / dric S	oil present							
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Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-01
Applicant/Owner: AEP	State	Ohio Sampling Point: 1-X UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T	IN R10E SN10
Landform (hillslope, terrace, etc.): Flat	ocal relief (concave, convex, none): <u>No</u>	one Slope (%): 0
Subregion (LRR or MLRA): M Lat: 41.064985	Long:83.6992	23 Datum: WGS 84
Soil Map Unit Name: <u>Gwe1B1</u>	N\	VI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y	vear? Yes 🔽 No (If no, e	xplain in Remarks.)
Are Vegetation, Soil, or Hydrology significantl	y disturbed? Are "Normal Circum	stances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain a	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, tr	ansects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No / No / No /	Is the Sampled Area within a Wetland? Ye If yes, optional Wetland Site ID:	s No
Remarks: (Explain alternative procedu	ires here or in a	separate report.)		
Upland point for Wetland	d 1-X			

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	bils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🗸 Depth (inches):	
Saturation Present? Yes No <u>r</u> Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Ves Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No tions), if available:
Saturation Present? Yes No Y Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No
Saturation Present? Yes No C Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Concern Depth (inches): Concern Con	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Concern Depth (inches): Concern Con	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Concern Depth (inches): Concern Con	Wetland Hydrology Present? Yes No tions), if available:
Saturation Present? Yes No Coperative Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No tions), if available:
Saturation Present? Yes No C Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No tions), if available:
Saturation Present? Yes No Coperative Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No tions), if available:
Saturation Present? Yes No Coperative Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No tions), if available:
Saturation Present? Yes No Coperative Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No _⊻ tions), if available:

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	<u>_/0 00vci</u>		010103	Number of Dominant Species
1	- <u> </u>			That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, of FAC: (A/B)
6				Prevalence Index worksheet:
7	. <u> </u>			Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species <u>40</u> x 2 = <u>80</u>
1				FAC species 0 $x 3 = 0$
2.				FACU species 50 $x 4 = 200$
3	- <u> </u>			UPL species 10 $x_5 = 50$
4				Column Totals: 100 (A) 330 (B)
				Prevalence Index = $B/A = 3.30$
5	- <u> </u>			Hudronkutia Vagatatian Indiastara.
6				1 Papid Tast for Hydrophytic Vagetation
7				2 - Dominance Test is >50%
		= Total Cov	/er	$3 - $ Prevalence Index is $\leq 30^{1}$
Herb Stratum (Plot size: 5 ft r)				4 - Morphological Adaptations ¹ (Provide supporting
_{1.} Festuca rubra	40	 ✓ 	FACU	data in Remarks or on a separate sheet)
2. Phalaris arundinacea	40	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Cirsium arvense	10		FACU	1
4. Daucus carota	10		UPL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vagatation Strata
6.				Demittons of Vegetation Strata.
7	. <u> </u>			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9	·			at breast height (bbh), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	100%	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2	<u> </u>			
3				Hydrophytic
4				Vegetation
	-	= Total Cov	/er	Present? fesNo
Remarks: (Include photo numbers here or on a separate	sheet.)		-	I
Hydrophytic vocatation abcont				
Tydrophytic vegetation absent				

Profile Desc	ription: (Describe	to the depth	n needed to docu	ment the i	indicator	or confirm	the absence	of indicators.)		
Depth (in shas)	Matrix		Redo	ox Feature	S Turn a ¹	1.0.02	Tautura	-		
(inches)		<u> % </u>	Color (moist)	<u>%</u>	Type	LOC		F	temarks	
0 - 8	10YR 6/3	100					Silty Clay			
-										
					·	·				
					·		·			
-										
					·					
-										
-										
					·		<u> </u>			
-										
-										
¹ Type: C=C	oncentration D=Der	letion RM=R	Reduced Matrix M	S=Masker	Sand Gr	ains	² Location:	PI =Pore Linin	ng M=Matr	ix
Hydric Soil	Indicators:						Indicators	for Problemati	c Hydric S	ioils ³ :
Histosol	(A1)	_	Polyvalue Belo	w Surface	(S8) (LRF	R,	2 cm M	uck (A10) (LRR	ι K, L, MLF	RA 149B)
Histic Ep	pipedon (A2)		MLRA 149B	5)			Coast F	Prairie Redox (A	16) (LRR	K, L, R)
Black Hi	stic (A3)	_	Thin Dark Surf	ace (S9) (I	RR R, M	LRA 149B)) 5 cm M	ucky Peat or Pe	∋at (S3) (L l	RR K, L, R)
Hydroge	n Sulfide (A4)	-	_ Loamy Mucky	Mineral (F	1) (LRR K	, L)	Dark St	urface (S7) (LR	R K, L)	
Stratified	d Below Dark Surfac		Loany Gleyeu Depleted Matri	wautx (F2 x (F3)	.)		Thin Da	ark Surface (S9)) (I RR K. I	$(\mathbf{X}, \mathbf{K}, \mathbf{L})$
Thick Da	ark Surface (A12)		Redox Dark Su	urface (F6)			Iron-Ma	inganese Mass	es (F12) (L	
Sandy M	lucky Mineral (S1)	_	Depleted Dark	Surface (F	7)		Piedmo	ont Floodplain S	oils (F19) ((MLRA 149B)
Sandy G	eleyed Matrix (S4)	_	Redox Depress	sions (F8)			Mesic S	Spodic (TA6) (M	ILRA 144A	A, 145, 149B)
Sandy R	edox (S5)						Red Pa	rent Material (F	21)	2
Stripped	Matrix (S6)						Very St	nallow Dark Sur	face (TF12	2)
		VILKA 149D)							3165)	
³ Indicators of	f hydrophytic vegeta	tion and wetl	and hydrology mu	st be prese	ent, unless	s disturbed	or problematic.			
Restrictive I	ayer (if observed)			-						
Type: Gr	avel									
Depth (ind	_{ches):} 8						Hydric Soil	Present? Ye	s	No 🖌
Remarks:	,									
Hydric s	oil absent									

ما که ما ا

WEIL	AND DETERM	INATION DATA FOR	RM – Northcentral	and Northeas	st Region
Project/Site: AEP Fostoria to	Lima	City/C	ounty: Findlay/Hanco	ock	Sampling Date: 2022-07-01
Applicant/Owner: AEP		-	-	State: Ohio	Sampling Point: 1-Y
Investigator(s): Beth Hollinde	n, Chris Daviss	on Sectio	on, Township, Range: O	H01 T1N R10E	SN10
Landform (hillslope, terrace, etc.): Depression To	peslope Local reli	ef (concave, convex, no	_{ne):} Concave	Slope (%): 2
Subregion (LRR or MLRA): M	,	Lat: 41.064152	Lona: -83	3.701299	Datum: WGS 84
Soil Map Unit Name: SoA			0	NWI classifi	cation: R5UBH
Are climatic / hydrologic conditio	ns on the site typic	al for this time of year? Y	es 🖌 No	(If no, explain in F	Remarks.)
Are Vegetation . Soil	, or Hvdrology	significantly distur	bed? Are "Norma	l Circumstances"	present? Yes 🖌 No
Are Vegetation Soil	or Hydrology	naturally problema	tic? (If needed.)	explain any answe	ers in Remarks.)
	, or riyarology _				
SUMMARY OF FINDING	5 – Attach site	e map showing sam	pling point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	✓ No	Is the Sampled Area		
Hydric Soil Present?	Yes	✓ No	within a Wetland?	Yes 🔽	No
Wetland Hydrology Present?	Yes	✓ No	If yes, optional Wetland	d Site ID: <u>1-Y</u>	
Remarks: (Explain alternative	procedures here or	r in a separate report.)			
HYDROLOGY					
Wetland Hydrology Indicator	ˈs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o	f one is required; cl	heck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		Water-Stained Leaves	s (B9)	Drainage Pa	atterns (B10)
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim L	ines (B16)
Saturation (A3)		Marl Deposits (B15)		Dry-Season	Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)	Crayfish Bur	rrows (C8)
Sediment Deposits (B2)		Oxidized Rhizosphere	es on Living Roots (C3)	Saturation V	(is ble on Aerial Imagery (C9)
Drift Deposits (B3)	•	Presence of Reduced	I Iron (C4) n in Tillod Soils (C6)	Stunted or S	Provision (D2)
Iron Denosits (B5)	-	Recent from Reduction		Shallow Agu	itard (D3)
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in Ren	narks)	Microtopogra	aphic Relief (D4)
Sparsely Vegetated Conca	ave Surface (B8)			✓ FAC-Neutral	I Test (D5)
Field Observations:					(),
Surface Water Present?	Yes 🖌 No _	Depth (inches): 1			
Water Table Present?	Yes 🖌 No _	Depth (inches): 0			
Saturation Present? (includes capillary fringe)	Yes 🖌 No	Depth (inches): 0	Wetland H	Hydrology Prese	nt? Yes 🖌 No
Describe Recorded Data (strea	am gauge, monitori	ng well, aerial photos, pre	vious inspections), if ava	ailable:	
Remarks:					

Wetland hydrology present

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	70 00001	000000		Number of Dominant Species
2				$\frac{1}{1}$
3				Total Number of Dominant Species Across All Strata: 1 (B)
0				
4				That Are OBL, FACW, or FAC: 100 (A/B)
5				
o			·	Prevalence Index worksheet:
/				Total % Cover of: Multiply by:
15 ft m		= Total Cov	ver	OBL species 0 $x_1 = 0$
Sapling/Shrub Stratum (Plot size: 15 11 1)				FACW species 5 $x_2 = 15$
1				FACU species 0 $x 4 = 0$
2				UPL species 0 $x 5 = 0$
3				Column Totals: 100 (A) 205 (B)
4				2.05
5				Prevalence Index = B/A = 2.03
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	ver	∠ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)				✓ 3 - Prevalence Index is ≤3.0'
	95	~	FACW	 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
2. Rumex crispus	5		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				1
4				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.				Deminions of Vegetation of data.
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8.				
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
12.	100%	Tatal Car		height.
100 m	10070	= Total Co	ver	
Woody Vine Stratum (Plot size: 30 rth)				
1				
2				
3				Hydrophytic
4				Present? Yes <u>V</u> No
		= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic vegetation present.				

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	the absence	of indicators.)		
Depth	Matrix		Redo	x Feature	es Trans 1	1 2	Tartura	Descela		
(inches)		<u> </u>						Remarks		
0 - 10	10 f R 2/1	95	1018 5/6	10		IVI	Silty Clay	Gravel inclusions		
-					_					
-										
				<u></u>		·				
				· · ·		·				
		- <u> </u>				·				
-										
						·				
-						·				
¹ Type: C=C	oncentration, D=Dep	eletion, RM	=Reduced Matrix, MS	S=Maske	d Sand G	ains.	² Location	: PL=Pore Lining, M=Matrix.		
Histosol	(A1)		Polyvalue Belov	w Surface	- (S8) (I R	RR	2 cm M	Auck (A10) (IRR K MIRA 149B)		
Histic Ep	oipedon (A2)		MLRA 149B)		(00) (E R	,	Coast	Prairie Redox (A16) (LRR K, L, R)		
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (LRR R, M	LRA 149B)) 5 cm N	Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydroge	en Sulfide (A4)		Loamy Mucky N	/lineral (F	51) (LRR Þ	K , L)	Dark S	Dark Surface (S7) (LRR K, L)		
Stratilied Depleted	d Below Dark Surfac	e (A11)	Depleted Matrix	(F3)	2)		Thin Dark Surface (S9) (LRR K, L)			
Thick Da	ark Surface (A12)		✓ Redox Dark Su	rface (F6)		Iron-M	anganese Masses (F12) (LRR K, L, R)		
Sandy N	lucky Mineral (S1)		Depleted Dark	Surface (F7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy G	Bleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Red P	Spodic (1A6) (MLRA 144A, 145, 149B) arent Material (F21)		
Stripped	Matrix (S6)						Very S	Shallow Dark Surface (TF12)		
Dark Su	rface (S7) (LRR R, I	MLRA 1498	3)				Other	(Explain in Remarks)		
31	(here the state of the second state	(- Patrick ad		_		
Restrictive	aver (if observed)	tion and we	etiand hydrology mus	st be pres	ent, unies	s disturbed	or problemation	2.		
Type: Gr	avel									
Depth (in	ches). 10						Hydric Soil	Present? Yes 🖌 No		
Remarks:							-			
Hyaric s	oli present									

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hanco	ock	Sampling Date: 2022-07-01
Applicant/Owner: AEP		_ _{State:} Ohio	_ Sampling Point: 1-Y UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: <u>0</u>	H01 T1N R10E S	SN10
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, nor	ne): Convex	Slope (%): <u>2</u>
Subregion (LRR or MLRA): M Lat: 41.06	4185	.701198	Datum: WGS 84
Soil Map Unit Name: SoA		NWI classific	ation: R5UBH
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes 🖌 No	(If no, explain in Re	emarks.)
Are Vegetation, Soil 🖌 , or Hydrology sigr	ificantly disturbed? Are "Normal	Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nati	Irally problematic? (If needed, e	xplain any answer	rs in Remarks.)
			• • • • • •

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu	res here or in a	separate report.)	
Upland point for Wetland	11-Y.		

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	pils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No Pepth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Ves No Depth (inches):	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Bemarke: Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No tions), if available:
Water Table Present? Yes No _ ✓ _ Depth (inches): Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Wetland hydrology absent.	Wetland Hydrology Present? Yes No

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	<u></u>	000000	Olulus	Number of Dominant Species That Are OBL EACW or EAC: 2 (A)
2				
3.				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
··		Tatal Ca		I otal % Cover of: Multiply by:
15 ft r		= Total Co	/er	$\begin{array}{c} \text{OBL species} \underline{0} \\ \text{FACW species} \underline{90} \\ \underline{90} \\$
Sapling/Shrub Stratum (Plot size: 15111)				FACW species 0 $x_2 = 0$
1				FACIL species 10 $x_4 = 40$
2				$\frac{1}{100} \frac{1}{100} \frac{1}$
3				Column Totals: 100 (A) 220 (B)
4				Providence Index = P(A = 2.20)
5				
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	/er	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)				3 - Prevalence Index is ≤3.0°
1. Phalaris arundinacea	70	~	FACW	data in Remarks or on a separate sheet)
2. Verbesina alternifolia	20	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3 Cirsium arvense	5		FACU	
4 Phytolacca americana	5		FACU	¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed of problematic.
				Definitions of Vegetation Strata:
0				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
<i>1</i>				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				
10			·	Herb – All herbaceous (non-woody) plants, regardless
11				
12				Woody vines – All woody vines greater than 3.28 ft in height
	100%	= Total Cov	/er	inoight.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				Hydrophytic
4.				Vegetation
		= Total Cov	/er	Present? Yes <u>No</u> No
Remarks: (Include photo numbers here or on a separate	sheet.)			
Hydrophytic vocatation procent				
right opright vegetation present				

SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	the absence o	f indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 8	10YR 5/3	95	10YR 4/1	5	D	М	Silty Clay	
		. <u> </u>				·	· ·	
-		·				·	·	
-								
						·	·	
		·				·	<u> </u>	
-								
					_	·		
						·	<u> </u>	
-								
		·				·	·	
-								
		·				·		
-								
						·		
'Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Maske	d Sand Gi	rains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils':
Histosol	(A1)		Polyvalue Belo	w Surface	e (S8) (LR	R R,	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast P	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (LRR R, M	LRA 149B)) 5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Mucky I	Mineral (F	1) (LRR 🖡	(, L)	Dark Su	rface (S7) (LRR K, L)
Stratified	d Layers (A5)	<i></i>	Loamy Gleyed	Matrix (F2	2)		Polyvalu	ie Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surface	e (A11)	Depleted Matrix	x (F3)			Thin Da	rk Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Redox Dark Su	Irface (F6)		Iron-Mai	nganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (F7)		Piedmor	nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	Sleyed Matrix (S4)		Redox Depress	sions (F8)			Mesic S	podic (1A6) (MLRA 144A, 145, 149B)
Sandy R	ledox (S5)						Red Par	ent Material (F21)
Stripped	Matrix (S6)						Very Sh	allow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, N	ILRA 149E	3)				Other (E	xplain in Remarks)
³ Indiantara al	f budropbutio vogotot	tion and we	tional budralage mu	at ha area	ant unlas	a diaturbad	or problematic	
Indicators of	r nydropnytic vegetai	tion and we	etiand hydrology mus	st be pres	ent, unies	s disturbed	or problematic.	
	Layer (if observed):							
Type: Gr	avei							
Depth (ind	ches): <u>8</u>						Hydric Soil P	Present? Yes No
Remarks:								
Hydric s	oil absent							

Project/Site: AEP Fostoria to Lima	_ City/County: Findlay/Hancock Sampling Date: 2022-07-01						
Applicant/Owner: AEP	State: Ohio Sampling Point: 1-Z						
Investigator(s): Beth Hollinden, Chris Davisson	_ Section, Township, Range: OH01 T1N R10E SN9						
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope (%): 2						
Subregion (LRR or MLRA): <u>L</u> Lat: <u>41.057472</u>	2 Long: -83.70964 Datum: WGS 84						
Soil Map Unit Name: SnA	NWI classification: N/A						
Are climatic / hydrologic conditions on the site typical for this time of ye	year? Yes No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly	tly disturbed? Are "Normal Circumstances" present? Yes No						
Are Vegetation, Soil, or Hydrology naturally pr	problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>V</u> No If yes, optional Wetland Site ID: <u>1-Z</u>						

Remarks: (Explain alternative procedures here or in a separate report.)

PEM. ORAM score of 22.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	oils (C6) 🖌 Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): <u>0</u>	Wetland Hydrology Present? Yes <u>/</u> No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:	
Watland hydrology procent	
wetiand hydrology present	

T OLIVIE 20 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>50 ft f</u>)	% Cover	Species?	Status	Number of Dominant Species
1		. <u> </u>		That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>1</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
3				、 ,
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	ver	OBL species <u>90</u> x 1 = <u>90</u>
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 10 x 2 = 20
1				FAC species $0 x 3 = 0$
··				FACU species $0 x 4 = 0$
2				UPL species $0 \times 5 = 0$
3				Column Totals: 100 (A) 110 (B)
4				
5				Prevalence Index = $B/A = 1.10$
6				Hydrophytic Vegetation Indicators:
7				 1 - Rapid Test for Hydrophytic Vegetation
<i>I</i>				\checkmark 2 - Dominance Test is >50%
		= Total Cov	ver	\checkmark 3 - Prevalence Index is <3.0 ¹
Herb Stratum (Plot size: 5 ft r)				4 - Morphological Adaptations ¹ (Provide supporting
_{1.} Typha angustifolia	80	~	OBL	data in Remarks or on a separate sheet)
2. Phalaris arundinacea	10		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Scirpus atrovirens	10		OBI	
	10		ODL	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree March relate 2 in (7.0 cm) or more in diameter
7.				at breast height (DBH), regardless of height.
8				
·				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
9				
10				Herb – All herbaceous (non-woody) plants, regardless
11				or size, and woody plants less than 5.20 it tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	100%	= Total Cov	ver	height.
Woody Vine Stratum (Plot size: 30 ft r)				
(1 lot 5/20)				
1				
2				
3				Hydrophytic
4	<u> </u>			Vegetation Present? Ves V No
		= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			1
	,			
Hydrophytic vegetation present.				

SOIL	
------	--

Depth	Matrix		Redo	x Feature	es		_		_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 20	10YR 3/1	95	10YR 5/6	5	С	М	Silty Clay			
-										
-					_					
						·				
-				·		·	<u> </u>			
-						. <u> </u>				
-										
_					_					
						<u> </u>				
-						·				
-						<u> </u>				
-										
					_					
					_	·				
-						·				
Type: C=Co	oncentration, D=Dep	pletion, RM	=Reduced Matrix, MS	S=Maske	d Sand G	rains.	Location: P	L=Pore L	ining, M=Mat	rix. Soils ³ '
Histosol	(A1)		Polyvalue Belov	w Surface	e (S8) (I R	R R.	2 cm Muc	k (A10) (I	RR K. I. MI	RA 149B)
Histic Ep	oipedon (A2)		MLRA 149B))	(00) (,	Coast Pra	airie Redo	x (A16) (LRR	K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (LRR R, M	LRA 149B)	5 cm Muc	ky Peat o	r Peat (S3) (L	.RR K, L, R)
Hydroge	en Sulfide (A4)		Loamy Mucky N	Mineral (F	⁻ 1) (LRR Þ	K, L)	Dark Surf	ace (S7) ((LRR K, L)	
	d Layers (A5) d Below Dark Surfac	ο (Δ11)	Loamy Gleyed	Matrix (F2 (F3)	2)		Polyvalue	Below Surface (urface (58) (L (59) (I RR K	.RR K, L) I)
Thick Da	ark Surface (A12)		 Redox Dark Su 	rface (F6)		Iron-Mang	ganese Ma	asses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (, F7)		Piedmont	Floodplai	in Soils (F19)	(MLRA 149B
Sandy G	Bleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spo	odic (TA6)) (MLRA 144	A, 145, 149B)
Sandy R	Redox (S5)						Red Pare	nt Materia	al (F21) Surface (TF1	2)
Dark Su	rface (S7) (LRR R. I	MLRA 149	3)				Other (Ex	plain in R	emarks)	2)
			_,					p.a	omano)	
³ Indicators of	f hydrophytic vegeta	tion and w	etland hydrology mus	st be pres	ent, unles	s disturbed	or problematic.			
Restrictive I	Layer (if observed)	:								
Туре:										
Depth (ind	ches):						Hydric Soil Pro	esent?	Yes 🔽	No
Remarks:										
Hydric s	oil present									

Project/Site: AEP Fostoria to Lima	City/County: Findlay/Hancock	Sampling Date: 2022-07-01
Applicant/Owner: AEP	State: Ohio	Sampling Point: 1-Z UPL
Investigator(s): Beth Hollinden, Chris Davisson	Section, Township, Range: OH01 T1N R10E	SN9
Landform (hillslope, terrace, etc.): Hillslope	_ Local relief (concave, convex, none): <u>Convex</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): L Lat: 41.0572	Long: -83.709783	Datum: WGS 84
Soil Map Unit Name: <u>SnA</u>	NWI classifi	cation: N/A
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology signific	antly disturbed? Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natural	ly problematic? (If needed, explain any answe	ers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No 🔽 No 🔽 No 🔽	Is the Sampled Area within a Wetland? Yes No If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)							
Upland point for Wetland 1-Z.							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Ro	oots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils	s (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No Vater Table Present? Yes Depth (Inches):	
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): No _ Uepth (i	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ V Depth (inches): Saturation Present? Yes No _ V Depth (inches): No _ V No _ V Depth (inches): No _ V NO _ NO _ NO _ NO _ NO _ NO _ N	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Mo _ Depth (inches): No _ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection Remarks:	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): No _ Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): No _ Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No
Water Table Present? Yes No _ Depth (inches): No _ Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No <u> </u>
Water Table Present? Yes No _ Depth (inches): No _ Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes <u>No</u> ons), if available:
Water Table Present? Yes No _ Depth (inches): No _ Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No <u> </u>
Water Table Present? Yes No _ Depth (inches): No _ Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes No <u>v</u>
Water Table Present? Yes No _ Depth (inches): No _ Saturation Present? Yes No _ Depth (inches): No _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes <u>No</u> <u>v</u>
Water Table Present? Yes No Depth (inches): No No Depth (inches): No No Remarks: Remarks: Wetland hydrology absent	Wetland Hydrology Present? Yes <u>No</u> ons), if available:

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	<u></u>	000000		Number of Dominant Species That Are OBL EACIM or EAC: 1 (A)
2	- <u> </u>			
2				Total Number of Dominant
3				Species Across All Strata.
4				Percent of Dominant Species
5				
6	<u> </u>			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	ver	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 50 x 2 = 100
1				FAC species 0 $x 3 = 0$
2.				FACU species 50 x 4 = 200
3				UPL species 0 $x = 0$
4				Column Totals: 100 (A) 300 (B)
				Prevalence Index = $B/A = 3.00$
5	- <u> </u>			Hudronhutia Vagatatian Indiastara.
6				1 Papid Tast for Hydrophytic Vagetation
7				2 - Dominance Test is >50%
	. <u> </u>	= Total Cov	ver	$3 - $ Prevalence Index is $\leq 30^{1}$
Herb Stratum (Plot size: 5 ft r)				4 - Morphological Adaptations ¹ (Provide supporting
_{1.} Phalaris arundinacea	50	v	FACW	data in Remarks or on a separate sheet)
2. Cirsium arvense	30	~	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Festuca rubra	20	~	FACU	1
4				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.				Definitions of Vegetation Strata.
7	. <u> </u>			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
8				at bleast height (bbh), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall
9				
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	100%	= Total Cov	ver	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2	<u> </u>			
3				Hydrophytic
4.				Vegetation
	- <u> </u>	= Total Co	ver	Present? Yes <u>No</u>
Remarks: (Include photo numbers here or on a separate s	sheet.)	10101 00		
Indrandutia vagatation aboant	,			
Hydrophytic vegetation absent				

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i	ndicator	or confirm	n the absence of	f indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	%	Color (moist)	x Feature	s Type ¹		Texture	Remarks
0 - 20	10VP 5/2	100		/0			Silty Clay	Kemans
	1011(5/5	100						
-								
-								
-								
-								
-								
		·						
-								
-								
-								
¹ Type: C=Co	oncentration, D=De	oletion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils ³ :
Histosol	(A1)	-	Polyvalue Belo	w Surface	(S8) (LR	RR,	2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B) 200 (SO) (I			Coast Pr	rairie Redox (A16) (LRR K, L, R)
Hvdroge	en Sulfide (A4)	-	I nin Dark Suna	Mineral (F	1) (LRR K	LKA 1490, . L)) 5 cm Mu Dark Sur	rface (S7) (LRR K. L)
Stratified	d Layers (A5)	-	Loamy Gleyed	Matrix (F2	:) :)	, _,	Polyvalu	e Below Surface (S8) (LRR K, L)
Depleted	d Below Dark Surfac	ce (A11)	Depleted Matri	x (F3)			Thin Dar	rk Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)	-	Redox Dark Su	ırface (F6)			Iron-Man	nganese Masses (F12) (LRR K, L, R)
Sandy M	1ucky Mineral (S1)	-	Depleted Dark	Surface (F	7)		Piedmon	nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	Bleyed Matrix (S4)	-	Redox Depress	sions (F8)			Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)
Sanuy R	Matrix (S6)						Verv Sha	allow Dark Surface (TE12)
Dark Su	rface (S7) (LRR R,	MLRA 149B)				Other (E	xplain in Remarks)
³ Indicators of	f hydrophytic vegeta	ation and we	land hydrology mu	st be prese	ent, unless	s disturbed	or problematic.	
Restrictive	Layer (if observed)	:						
Type:								
Depth (inc	ches):						Hydric Soil P	resent? Yes No
Remarks:								
Hvdric s	oil absent							



ORAM v. 5.0 Field Form Quantitative Rating Date: 6/29/2022 Rater(s): Beth Hollinden, Chris Davissor Site: ASP Fostoria to Lima Wetland 1-A 3 btotal first pag Metric 5. Special Wetlands. ax 10 pts subtota 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 Openings) (10) Relict Wet Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. Vegetation Community Cover Scale ax 20 pt 6a. Wetland Vegetation Communities. Absent or comprises <0.1ha (0.2471 acres) contiguous area Score all present using 0 to 3 scale. 0 Aquatic bed Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or comprises a Emergent significant part but is of low quality Shrub 2 Present and either comprises significant part of wetland's Forest vegetation and is of moderate quality or comprises a small Mudflats part and is of high quality Open water Present and comprises significant part, or more, of wetland's 3 Other vegetation and is of high quality 6b. horizontal (plan view) Interspersion. Select only one. Narrative Description of Vegetation Quality High (5) Moderately high(4) Low spp diversity and/or predominance of nonnative or low disturbance tolerant native species Moderate (3) Moderately low (2) mod Native spp are dominant component of the vegetation, Low (1) although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to None (0) 6c. Coverage of invasive plants. Refer moderately high, but generally w/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, the presence of rare, threatened, or endangered spp Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Mudflat and Open Water Class Quality Absent (1) 6d. Microtopography. Absent <0.1ha (0.247 acres) 0 Score all present using 0 to 3 scale. 1 Low 0.1 to <1ha (0.247 to 2.47 acres) Ø Vegetated hummucks/tussucks Moderate 1 to <4ha (2.47 to 9.88 acres) 2 O Coarse woody debris >15cm (6in) 3 High 4ha (9.88 acres) or more O Standing dead >25cm (10in) dbh Amphibian breeding pools Microtopography Cover Scale Absent 0 Present very small amounts or if more common of marginal quality 2 Present in moderate amounts, but not of highest quality or in small amounts of highest quality 3 Present in moderate or greater amounts

21

End of Quantitative Rating. Complete Categorization Worksheets.

and of highest quality





End of Quantitative Rating. Complete Categorization Worksheets.

ORAM v. 5.0 Field Form Quantitative Rating Site: AEP Fostoria to Lima Rater(s): Beth Hollinden, Curis Davisson Date: 6/29/22 wetland 1-C Metric 1. Wetland Area (size). max 6 pts subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. 3 max 14 pts subtotal 2a. Calculate average buffer width. Select only one and assign score. Do not double check. WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. 3 16 1 max 30 pts subtotal 3a. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. High pH groundwater (5) 100 year floodplain (1) Other groundwater (3) Between stream/lake and other human use (1) Precipitation (1) Part of wetland/upland (e.g. forest), complex (1) Seasonal/Intermittent surface water (3) 1 Part of riparian or upland corridor (1) Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check. 3c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) >0.7 (27.6in) (3) Regularly inundated/saturated (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) <0.4m (<15.7in) (1) Seasonally saturated in upper 30cm (12in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average. None or none apparent (12) Check all disturbances observed Recovered (7) ditch point source (nonstormwater) Recovering (3) tile filling/grading Recent or no recovery (1) dike road bed/RR track weir dredging stormwater input other Metric 4. Habitat Alteration and Development. 3 max 20 pts subtotal 4a. Substrate disturbance. Score one or double check and average. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only one and assign score. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) V Poor (1) 4c. Habitat alteration. Score one or double check and average. None or none apparent (9) Check all disturbances observed Recovered (6) mowing shrub/sapling removal Recovering (3) grazing herbaceous/aquatic bed removal Recent or no recovery (1) clearcutting sedimentation selective cutting dredging woody debris removal farming toxic pollutants nutrient enrichment subtotal this page last revised 1 February 2001 jim

ORAM v. 5.0 Field Form Quantitative Rating





End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts

and of highest quality



ORAM v. 5.0 Field Form Quantitative Rating



End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts

and of highest quality

32



ORAM v. 5.0 Field Form Quantitative Rating



End of Quantitative Rating. Complete Categorization Worksheets.

and of highest quality

2






ite: Ag	PF	storia to Lima Rater(s): Ball Hollinden, Cluris Davisson Date. 613012022
		Wetland 2-G
0	0	Metric 1. Wetland Area (size).
ax 6 pts.	subtotal	Select one size class and assign score
		>50 acres (>20.2ha) (6 pts)
		25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts)
		3 to <10 acres (1.2 to <4ha) (3 pts)
		0.3 to < 3 acres (0.12 to < 1.2 ha) (2 pts) 0.1 to <0.3 acres (0.04 to <0.12 \text{ ha}) (1 \text{ pt})
		<
1	1	Metric 2. Upland buffers and surrounding land use.
ax 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check.
		WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
		NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
		VERY NARROW. Buffers average <10m (<32ft) around wettand perimeter (0)
		VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
		MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
		HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)
7	8	Metric 3. Hydrology.
ax 30 pts.	subtotal	3a. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply.
		High pH groundwater (5) Other argundwater (3) Between stream/lake and other human use (1)
		✓ Part of wetland/upland (e.g. forest), complex (1)
		Seasonal/Intermittent surface water (3) [Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check
		3c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4)
		>0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2)
		Seasonally saturated in upper Social (1211) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average.
		None or none apparent (12) Check all disturbances observed
		Recovered (7) ditch point source (nonstormwater)
		Recent or no recovery (1)
		stormwater input other
-		Motrie 4 Habitat Alteration and Development
T	15	Wette 4. Habitat Alteration and Development.
ax 20 pts	subtotal	4a. Substrate disturbance. Score one or double check and average.
		None or none apparent (4) $\sqrt{Recovered}$ (3)
		Recovering (2)
		4b. Habitat development. Select only one and assign score.
		Excellent (7) Very good (6)
		Good (5)
		Fair (3)
		Poor to fair (2)
		4c. Habitat alteration. Score one or double check and average.
		None or none apparent (9) Check all disturbances observed
		Recovering (3)
Г	-	Recent or no recovery (1) clearcutting dredging
	15	woody debris removal farming
subl	total this pa	





End of Quantitative Rating. Complete Categorization Worksheets.

3

quality or in small amounts of highest quality

Present in moderate or greater amounts





12

End of Quantitative Rating. Complete Categorization Worksheets.





End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts









End of Quantitative Rating. Complete Categorization Worksheets.

and of highest quality

46





32

End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts

ORAM v. 5.0 Field Form Quantitative Rating Site: ASP Fostoria to Lima Date: 6/30/2022 Rater(s): Belly Hollinden, Chris Davisson Wetland 1-M Metric 1. Wetland Area (size). max 6 pts subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts)</p> Metric 2. Upland buffers and surrounding land use. max 14 pts subtotal 2a. Calculate average buffer width. Select only one and assign score. Do not double check. WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average. 2b. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. C max 30 pts subtotal Sources of Water. Score all that apply. 3a. 3b. Connectivity. Score all that apply. High pH groundwater (5) 100 year floodplain (1) Between stream/lake and other human use (1) Other groundwater (3) Precipitation (1) Part of wetland/upland (e.g. forest), complex (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) 3d. 3c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) >0.7 (27.6in) (3) Regularly inundated/saturated (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) <0.4m (<15.7in) (1) Seasonally saturated in upper 30cm (12in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average. None or none apparent (12) Check all disturbances observed Recovered (7) ditch point source (nonstormwater) Recovering (3) tile filling/grading road bed/RR track Recent or no recovery (1) dike weir dredging stormwater input other Metric 4. Habitat Alteration and Development. 0 6 subtotal Substrate disturbance. Score one or double check and average. max 20 pts 4a. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score 4b. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average. Check all disturbances observed None or none apparent (9) shrub/sapling removal Recovered (6) mowing Recovering (3) grazing herbaceous/aquatic bed removal clearcutting Recent or no recovery (1) sedimentation selective cutting dredging woody debris removal farming toxic pollutants nutrient enrichment thotal this page last revised 1 February 2001 jjm



29

End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts









End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts

and of highest quality

2







End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts





End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts

ORAM v. 5.0 Field Form Quantitative Rating Rater(s): Beth Hollinden, Chis Pavisson Date: 6/30/2022 Site: AEP Estoria to Lima Wetland 1-R Metric 1. Wetland Area (size). max 6 pts subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. 3 1 max 14 pts subtotal Calculate average buffer width. Select only one and assign score. Do not double check. 2a. WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. 1 3 3b. Connectivity. Score all that apply. max 30 pts subtotal 3a. Sources of Water. Score all that apply. 100 year floodplain (1) High pH groundwater (5) Between stream/lake and other human use (1) Other groundwater (3) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Seasonal/Intermittent surface water (3) Part of riparian or upland corridor (1) Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) 3d. Semi- to permanently inundated/saturated (4) Maximum water depth. Select only one and assign score. 3c. Regularly inundated/saturated (3) >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1) <0.4m (<15.7in) (1)</p> 3e. Modifications to natural hydrologic regime. Score one or double check and average Check all disturbances observed None or none apparent (12) point source (nonstormwater) Recovered (7) ditch Recovering (3) tile filling/grading dike V road bed/RR track Recent or no recovery (1) dredging weir stormwater input other Metric 4. Habitat Alteration and Development. 9 1 0 Substrate disturbance. Score one or double check and average. max 20 pts. subtotal 4a. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. 4b Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average Check all disturbances observed None or none apparent (9) Recovered (6) mowing shrub/sapling removal herbaceous/aquatic bed removal Recovering (3) grazing Recent or no recovery (1) clearcutting sedimentation selective cutting dredaina 0 woody debris removal farming toxic pollutants nutrient enrichment subtotal this page last revised 1 February 2001 jjm 7









End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts





13

End of Quantitative Rating. Complete Categorization Worksheets.

3

quality or in small amounts of highest quality

Present in moderate or greater amounts





26

End of Quantitative Rating. Complete Categorization Worksheets.









23

End of Quantitative Rating. Complete Categorization Worksheets.




End of Quantitative Rating. Complete Categorization Worksheets.





End of Quantitative Rating. Complete Categorization Worksheets.

and of highest quality





22

End of Quantitative Rating. Complete Categorization Worksheets.

3

quality or in small amounts of highest quality

Present in moderate or greater amounts





End of Quantitative Rating. Complete Categorization Worksheets.

ORAM v. 5.0 Field Form Quantitative Rating Site: ASP Fostoria to Lina Rater(s): Beth Hollinden, Chris Davisson Date: 7/1/22 Wetland 1-AB Metric 1. Wetland Area (size). 2 max 6 pts subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. nax 14 pt subtota Calculate average buffer width. Select only one and assign score. Do not double check. 2a. WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. ax 30 pts subtotal 3b. Connectivity. Score all that apply. 3a. Sources of Water. Score all that apply. High pH groundwater (5) 100 year floodplain (1) Between stream/lake and other human use (1) Other groundwater (3) Precipitation (1) Part of wetland/upland (e.g. forest), complex (1) Seasonal/Intermittent surface water (3) Part of riparian or upland corridor (1) 3d. Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) Semi- to permanently inundated/saturated (4) Maximum water depth. Select only one and assign score. 3c. Regularly inundated/saturated (3) >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1) <0.4m (<15.7in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average Check all disturbances observed None or none apparent (12) point source (nonstormwater) Recovered (7) ditch Recovering (3) tile filling/grading road bed/RR track Recent or no recovery (1) dike dredging weir stormwater input other Metric 4. Habitat Alteration and Development. 30 4a. Substrate disturbance. Score one or double check and average. max 20 pts subtota None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only one and assign score. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average. Check all disturbances observed None or none apparent (9) Recovered (6) mowing shrub/sapling removal Recovering (3) grazing herbaceous/aquatic bed removal clearcutting sedimentation Recent or no recovery (1) selective cutting dredaina 2 woody debris removal farming toxic pollutants nutrient enrichment subtotal this page last revised 1 February 2001 jjm 7





End of Quantitative Rating. Complete Categorization Worksheets.











End of Quantitative Rating. Complete Categorization Worksheets.

3

quality or in small amounts of highest quality

Present in moderate or greater amounts





Rater(s): Beth Hollinden, Chris Davisson Date: 7/2/2022 Site: ASP Fostoria to Lima Wetland 1-AF Metric 1. Wetland Area (size). 2 2 max 6 pts Select one size class and assign score. subtotal >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) Metric 2. Upland buffers and surrounding land use. 4 2 2a. Calculate average buffer width. Select only one and assign score. Do not double check. max 14 pts subtotal WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average. 2b VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. 10 L nax 30 pts Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. subtotal 3a. 100 year floodplain (1) High pH groundwater (5) Between stream/lake and other human use (1) Other groundwater (3) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) 3d. Semi- to permanently inundated/saturated (4) 30 Maximum water depth. Select only one and assign score. >0.7 (27.6in) (3) Regularly inundated/saturated (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1) <0.4m (<15.7in) (1) Modifications to natural hydrologic regime. Score one or double check and average. 3e. Check all disturbances observed None or none apparent (12) Recovered (7) ditch point source (nonstormwater) tile filling/grading Recovering (3) road bed/RR track dike Recent or no recovery (1) dredaina weir stormwater input other Metric 4. Habitat Alteration and Development. 0 max 20 nts subtotal 4a. Substrate disturbance. Score one or double check and average. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. 4b. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) ./ Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average. Check all disturbances observed None or none apparent (9) shrub/sapling removal Recovered (6) mowing Recovering (3) grazing herbaceous/aquatic bed removal Recent or no recovery (1) clearcutting sedimentation selective cutting dredging woody debris removal farming toxic pollutants nutrient enrichment btotal this pag last revised 1 February 2001 jjm



38

End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts





End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts

and of highest quality





End of Quantitative Rating. Complete Categorization Worksheets.

ORAM v. 5.0 Field Form Quantitative Rating Date: 7/4/22 Rater(s): Beth Hollinden, Chris Davisson Site: ASP Fostoria to Lima wetland 1-AI Metric 1. Wetland Area (size). max 6 pts subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. L 9 max 14 pts 2a. Calculate average buffer width. Select only one and assign score. Do not double check. subtotal WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. 11 max 30 pts subtotal 3b. Connectivity. Score all that apply. 3a. Sources of Water. Score all that apply. High pH groundwater (5) 100 year floodplain (1) Other groundwater (3) Between stream/lake and other human use (1) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check. 3c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) Regularly inundated/saturated (3) >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) <0.4m (<15.7in) (1) Seasonally saturated in upper 30cm (12in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average. None or none apparent (12) Check all disturbances observed Recovered (7) ditch point source (nonstormwater) Recovering (3) tile filling/grading Recent or no recovery (1) dike road bed/RR track weir dredaina stormwater input other Metric 4. Habitat Alteration and Development. subtotal Substrate disturbance. Score one or double check and average. max 20 pts 4a. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. 4b. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average Check all disturbances observed None or none apparent (9) Recovered (6) mowing shrub/sapling removal Recovering (3) grazing herbaceous/aquatic bed removal Recent or no recovery (1) clearcutting sedimentation selective cutting dredaina woody debris removal farming toxic pollutants nutrient enrichment subtotal this page last revised 1 February 2001 jjm







End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts





End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts













	Madifi	ed Class II PHIW	
hio Dho Environmental Protection Agency	Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)		
TE NAME/LOCATIO TE NUMBER <u>1</u> INGTH OF STREAM ATE <u>6/29/72</u> TE: Complete All REAM CHANNEL	AEP FOSTORIA TO LIMA - STREAM 1-002 (UNT I RIVER BASIN S.B. Portage RIVER RIVER CODE DE REACH (ft) 200 LAT 41.137592. LONG -83.47092 SCORER BH & CD COMMENTS DEALAGE AREA OF 1.7 Items On This Form - Refer to "Headwater Habitat Evaluation Index MODIFICATIONS: NONE / NATURAL CHANNEL RECOVERED RECO	to. S. Br. Brtage River RAINAGE AREA (MP) 3 RIVER MILE 2.9 1 Mil? HHEI was chosen due to Atomi Field Manual" for Instructions Flows How	
SUBSTRATE (Max of 32). A Image: Construction of the second sec	(Estimate percent of every type present). Check ONLY two predominant subst dd total number of significant substrate types found (Max of 8). Final metric score PERCENT TYPE BS [16 pts] TYPE BS [16 pts] SILT [3 pt] (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS [16 pts] FINE DETRITUS [3 pts] 65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] 2-64 mm) [9 pts] MUCK [0 pts] mm) [6 pts] ARTIFICIAL [3 pts] rcentages of der, Cobble, Bedrock (A) TY PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBST	(B) (B) (Constraints) (Constra	
Maximum Perime time of evaluation > 30 centimeter > 22.5 - 30 cm > 10 - 22.5 cm	ol Depth (Measure the maximum pool depth within the 61 meter (200 feet) eviden. Avoid plunge pools from road culverts or storm water pipes) (Check ONL rs [20 pts] [20 pts] S cm - 10 cm [15 pts] [30 pts] S cm [5pts] [25 pts] NO WATER OR MOIST CHAN	NEL [0pts]	
BANK FULL > 4.0 meters (> 3.0 m - 4.0 n > 1.5 m - 3.0 n	Sinches MAXIMUM POOL DEPTH WIDTH (Measured as the average of 3 - 4 measurements) (Check ONLY on (13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") (> 9' 7" - 13') [25 pts] ≤ 1.0 m (≤ 3' 3") [5 pts]	ebox): Bankfull Width Max=30	
COMMENTS	S Peet AVERAGE BANKFULL V	VIDTH (meters) 1.52	
RIPAR	This information <u>must</u> also be completed IAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R)	as looking downstream.	
L R (f □ Wid □ Mod ⊠ Nar □ Nor	RIAN WIDTH er Bank) FLOODPLAIN QUALITY (Most Predominant p L R e >10m Immature Forest, Wetland Immature Forest, Wetland ierate 5-10m Immature Forest, Shrub or Old Field iow <5m	ber Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction	
FLOW Stream Subsur COMM	REGIME (At Time of Evaluation) (Check ONLY one box): Flowing Moist Channel, isolated face flow with isolated pools (interstitial) Dry channel, no water ENTS	l pools, no flow (intermittent) (ephemeral)	
SINUO None 0.5	SITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 1.5 2.5	□ 3.0 □ >3	
STREAM GRA	DENT ESTIMATE Moderate // sum su Moderate to Severa		

DHEI PERFORMED? Yes pro QHEI Score (If Yes, Attach Comple DOWNSTREAM DESIGNATED USE(S) Name:	ed QHEI form) mEvaluated Stream <u>2.9 mile</u> mEvaluated Stream <u></u>
DOWNSTREAM DESIGNATED USE(S) Name: South Branch Portage River Distance fr Distance fri Distance fri Distance fri MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARING MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARING MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARING Marriellow Marriellow NRCS Soil Map Page: NN MISCELLANEOUS Conditions? (Y/N): Y Date of last precipitation: 6126/22 Quantition urbidity?(Y/N): N Canopy (% open): 1000 //. plotos treading urbidity?(Y/N): N Canopy (% open): 1000 //. 0 urbidity?(Y/N): D Canopy (% open): 1000 //. 0 urbidity?(Y/N): D Canopy (% open): 1000 //. 0 urbidity?(Y/N): D Dissolved 0xygen (mg/l) </th <th>am Evaluated Stream <u>2.9 mile</u> am Evaluated Stream am Evaluated Stream Y MARK THE SITE LOCATION. ACS Soil Map Stream Order: <u>/</u> FOUNSHIP by: <u>0.12''</u> bd. s): onductivity (umhos/cm)</th>	am Evaluated Stream <u>2.9 mile</u> am Evaluated Stream am Evaluated Stream Y MARK THE SITE LOCATION. ACS Soil Map Stream Order: <u>/</u> FOUNSHIP by: <u>0.12''</u> bd. s): onductivity (umhos/cm)
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARI adrangle Name: Fostoria NRCS Soil Map Page: NR Han cock Township/City: Washington MISCELLANEOUS Conditions? (Y/N): Y Date of last precipitation: 6126/22 Quant umentation Notes: Upstream, downStream, & SubStrate photos tecori urbidity?(Y/N): N Canopy (% open): 1000 //. ples collected for water chemistry? (Y/N): N Lab Sample # or ID (attach result sures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) C pling reach representative of the stream (Y/N) Y If not, explain:	Y MARK THE SITE LOCATION. ICS Soil Map Stream Order: TounShip ty: ty: ty: ty: s): onductivity (umhos/cm)
adrangle Name: Hostoria NRCS Soil Map Page: Ni Hancock Township/City: WaSkington WISCELLANEOUS v Conditions? (Y/N): Y Date of last precipitation: 6126/22 Quant umentation Notes: Upstream, downStream, & Substrate photos record urbidity?(Y/N): N Canopy (% open): 1007/ ples collected for water chemistry? (Y/N): N Lab Sample # or ID (attach resultsures: Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) C pling reach representative of the stream (Y/N) Y If not, explain:	ICS Soil Map Stream Order: Tounship ty:
Han cock Township/City:WaSkungton	10005001P by: 0.12" bed. s): onductivity (umhos/cm)
MISCELLANEOUS Y	s): onductivity (umhos/cm)
Conditions? (Y/N): Y Date of last precipitation: (126/22 Quant umentation Notes: Upstream, 2000/Stream, 2 Substrate photos tecor Quant umentation Notes: Upstream, 2000/Stream, 2 Substrate photos tecor urbidity?(Y/N): Canopy (% open):/	s):
umentation Notes: Upstream, 2000/Stream, & SubStrate photos record urbidity?(Y/N): Canopy (% open):/ urbidity?(Y/N): Canopy (% open):/ Lab Sample # or ID (attach results ples collected for water chemistry? (Y/N): Lab Sample # or ID (attach results ures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) C pling reach representative of the stream (Y/N) If not, explain:	s): onductivity (umhos/cm)
urbidity?(Y/N): N Canopy (% open): 1000 % ples collected for water chemistry? (Y/N): N Lab Sample # or ID (attach resultsures: Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) C pling reach representative of the stream (Y/N) ✓ If not, explain: C comments/description of pollution impacts:	s): onductivity (umhos/cm)
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sures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) C pling reach representative of the stream (Y/N) If not, explain: comments/description of pollution impacts: BIOLOGICAL OBSERVATIONS (Record all observations below) rved? (Y/N) Species observed (if known); adpoles Observed? (Y/N) Species observed (if known); rs Observed? (Y/N) Species observed (if known); croinvertebrates Observed? (Y/N) Species observed (if known);	onductivity (umhos/cm)
pling reach representative of the stream (Y/N) If not, explain: comments/description of pollution impacts: BIOLOGICAL OBSERVATIONS (Record all observations below) rved? (Y/N) Species observed (if known): adpoles Observed? (Y/N) Species observed (if known): rs Observed? (Y/N) Species observed (if known): croinvertebrates Observed? (Y/N) Species observed (if known): Deceding Biology:	
comments/description of pollution impacts: BIOLOGICAL OBSERVATIONS (Record all observations below) rved? (Y/N) N Species observed (if known): adpoles Observed? (Y/N) N Species observed (if known): rs Observed? (Y/N) N Species observed (if known): croinvertebrates Observed? (Y/N) N Species observed (if known): Croinvertebrates Observed? (Y/N) N Species observed (if known): Species observed (if known):	
rved? (Y/N) _ ∠ _ Species observed (if known): adpoles Observed? (Y/N) _ ∠ _ Species observed (if known): rs Observed? (Y/N) _ ∠ _ Species observed (if known): croinvertebrates Observed? (Y/N) _ ∠ _ Species observed (if known):	
adpoles Observed? (Y/N) Species observed (if known): rs Observed? (Y/N) Species observed (if known): croinvertebrates Observed? (Y/N) Species observed (if known):	
rs Observed? (Y/N) _ N Species observed (if known): croinvertebrates Observed? (Y/N) _ N Species observed (if known):	
convertebrates Observed? (Y/N) // Species observed (if known):	
Regarding blobgy	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (his <u>must</u> be completed)
FARM FIELD JN	escription of the stream's location
Hered culvert	veg.
1 FARM FIELD	prox. 1-3 meters on each side

May 2020 Revision

Che Freedwater H	labitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)	48
SITE NAME/LOCATION <u>ASP FOSTORIA TO C</u> SITE NUMBER RIVER BASIN <u>S.B.</u> LENGTH OF STREAM REACH (ft) <u>290</u> LAT DATE <u>6/29/22</u> SCORER <u>BH & CD</u> NOTE: Complete All Items On This Form - Refe STREAM CHANNEL MODIFICATIONS: NON	IMA - Stream 1-003 (UNT to S.Br. Portag Pactage Biveriver code DRAINAGE AREA (mP) 41.128093 LONG -83.517813 RIVER MILE comments <u>Although drainage avea >1 mi³</u> , <u>HHE1 was</u> er to "Headwater Habitat Evaluation Index Field Manual" for Ins E/ NATURAL CHANNEL RECOVERED RECOVERING RECENT OR	<u>e Five</u>) 3.91 <u>Min</u> 0.3 <u>5 chosen</u> due to internitions flow to flow to
1. SUBSTRATE (Estimate percent of every ty (Max of 32). Add total number of significant sign	ARTIFICIAL [3 pts] (B) (A) (CA)	HHEI Metric Points Substrate Max = 40
 Maximum Pool Depth (Measure the maxim time of evaluation. Avoid plunge pools from role > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] 	num pool depth within the 61 meter (200 feet) evaluation reach at the sad culverts or storm water pipes) (Check ONLY one box): S cm - 10 cm [15 pts] < 5 cm [5pts]	Pool Depth Max = 30
3. BANK FULL WIDTH (Measured as the aver → 4.0 meters (> 13') [30 pts] → 3.0 m - 4.0 m (> 9' 7'- 13') [25 pts] → 1.5 m - 3.0 m (> 4' 8'' - 9' 7") [20 pts]	age of 3 - 4 measurements) (Check ONLY one box):	Bankfull Width Max=30
	his information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN RIPARIAN WIDTH L R (Per Bank) L Mide >10m	QUALITY * NOTE: River Left (L) and Right (R) as looking downstream. FLOODPLAIN QUALITY (Most Predominant per Bank) L R Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Field Urban or Industrial Residential, Park, New Field Open Pasture, Row Cr Fenced Pasture Mining or Construction	op
FLOW REGIME (At Time of Evaluation Stream Flowing Subsurface flow with isolated pools (inte COMMENTS	(Check ONLY one box): Moist Channel, isolated pools, no flow (intermitte Dry channel, no water (ephemeral)	
SINUOSITY (Number of bends per 61 r None 1.0 0.5 1.5 STREAM GRADIENT ESTIMATE	n (200 ft) of channel) (Check ONLY one box): 2.0 3.0 2.5 >3	
	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
--------------------------------------	---	
Q	HEI PERFORMED?Yes Z No QHEI Score (If Yes, Attach Completed QHEI form)	
D 3 WWH N 1 CWH Na 1 EWH Na	OWNSTREAM DESIGNATED USE(S) ame: South Branch Portage Rives Distance from Evaluated Stream ame: Distance from Evaluated Stream	
	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.	
SGS Qua	drangle Name: Bloomdale NRCS Soil Map Page: NRCS Soil Map Stream Order:	
ounty:	tarcock Township/city: Washington Township	
N	AISCELLANEOUS	
ase Flow	Conditions? (Y/N): <u>4</u> Date of last precipitation: <u>6/26/22</u> Quantity: <u>0.12</u> "	
noto-doci	Junentation Notes: <u>Opsileum</u> , <u>obuilStreum</u> , <u>ale Substrate</u> <u>Profes Teconoco</u> ,	
levated in	$\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} +$	
vere sam	Dies collected for water chemistry? (Y/N): _/ Lab Sample # or ID (attach results):	
ield Meas	sures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)	
s the sam	pling reach representative of the stream (Y/N) If not, explain:	
	BIOLOGICAL OBSERVATIONS (Record all observations below)	
ish Obse	rved? (Y/N) N Species observed (if known):	
rogs or T	adpoles Observed? (Y/N) N Species observed (if known):	
alamande	ers Observed? (Y/N) Species observed (if known):	
Aquatic M	acroinvertebrates Observed? (Y/N) / / Species observed (if known):	
omments	Regarding biology.	
_		
	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	
	FARM FIELD UN	
~	WETLAND VEG- BORDERING STREAM FOR APPROX, 1-3 METERS ON EACH SIDE.	
OW	with the	
ow	NUCHANNEL	
OVV	FARM FIELD	

Dhie Enropemental Pronctien Apricy	HABITAT Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)
The Name/Location <u>ASP</u> Fostoria The Number River Basin S. Brite ENGTH OF STREAM REACH (ft) 200 LAT ATE $6/29/22$ SCORER <u>BH & CD</u> OTE: Complete All Items On This Form - Re	to Lima - Stream 15005 (UNT to S.BF. Portage Riu Portage River CODE DRAINAGE AREA (MP) 0.8 UNG DRAINAGE AREA (MP) 0.8 COMMENTS fer to "Headwater Habitat Evaluation Index Field Manual" for Instructions
REAM CHANNEL MODIFICATIONS:	NE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOV
SUBSTRATE (Estimate percent of every (Max of 32). Add total number of significant TYPE BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] BEDROCK [16 pts] COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock CORE OF TWO MOST PERDOMINATE SUBSTRA	type present). Check ONL Y two predominant substrate TYPE boxes. substrate types found (Max of 6). Final metric score is sum of boxes A & B NT TYPE PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT PERCENT POINT Substrate types CLAY or HARDPAN [0 pt] MUCK [0 pts] ARTIFICIAL [3 pts] Image: Colspan="2">(A) CAY TOTAL NUMBER OF SUBSTRATE TYPES:
Maximum Pool Depth (Measure the <u>maxi</u> time of evaluation. Avoid plunge pools from > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	mum pool depth within the 61 meter (200 feet) evaluation reach at the road culverts or storm water pipes) Pool De Max = 3 S cm - 10 cm [15 pts] < 5 cm [5pts]
COMMENTS 3"	MAXIMUM POOL DEPTH (centimeters): 7.6
BANK FULL WIDTH (Measured as the average of the second	erage of 3 - 4 measurements)(Check ONL Yone box):Bankfit \square > 1.0 m - 1.5 m (> 3' 3" - 4' 8")[15 pts]Width \square \leq 1.0 m (\leq 3' 3")[5 pts]Max=3
COMMENTS 9'	AVERAGE BANKFULL WIDTH (meters) 1.2
	This information <u>must</u> also be completed
RIPARIAN WIDTH L R (Per Bank) L Image: Strategy of the strate	FLOODPLAIN_QUALITY (Most Predominant per Bank) R L Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Field Urban or Industrial Residential, Park, New Field Open Pasture, Row Crop Fenced Pasture Mining or Construction
FLOW REGIME (At Time of Evaluation Stream Flowing Subsurface flow with isolated pools (in COMMENTS	on) (Check ONLY one box): Moist Channel, isolated pools, no flow (intermittent) terstitial) Dry channel, no water (ephemeral)
SINUO SITY Number of bends per 6 None 1.0 0 5 1.5	1 m (200 ft) of channel) (Check ONLY one box): 2.0 3.0 2.5 >3

OHEL PER	
Bourner	
	REAM DESIGNATED USE(S)
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance fromEvaluated Stream
MAPPING	ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA, CLEARLY MARK THE SITE LOCATION.
ISGS Quadranola	Name: Arradia NDCC Sell Man Stream Order
	NRCS Soil Map Page:NRCS Soil Map Page:NRCS Soil Map Stream Order
County: <u>NANCO</u>	CIL Township/City: CASS TOWNShip
MISCELL	ANEOUS
Base Flow Condition	ns? (Y/N): 9 Date of last precipitation: 6/26/22 Quantity: 0,12"
Photo-documentatio	on Notes: Upstream, downstream, and substrate photos recorded.
Elevated Turbidity?((Y/N):N Canopy (% open):10707,
Were samples colle	cted for waterchemistry?(Y/N): Lab Sample # or ID (attach results):
Field Measures:Ter	mp (°C) Dissolved Oxygen (mg/I) pH (S.U.) Conductivity (umhos/cm)
Is the sampling rea	ch representative of the stream (Y/N) <u> </u>
Additional comment	ts/description of pollution impacts:
	BIOLOGICAL OBSERVATIONS
	BIOLOGICAL OBSERVATIONS (Record all observations below)
Fish Observed? (Y	(Record all observations below) (N) Species observed (if known):
Fish Observed? (Y Frogs or Tadpoles (BIOLOGICAL OBSERVATIONS (Record all observations below) /N) Species observed (if known):
Fish Observed? (Y Frogs or Tadpoles Salamanders Obse	BIOLOGICAL OBSERVATIONS (Record all observations below) /N) _N
Fish Observed? (Y Frogs or Tadpoles) Salamanders Obse Aquatic Macroinver	BIOLOGICAL OBSERVATIONS (Record all observations below) (N) _N
Fish Observed? (Y Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver	BIOLOGICAL OBSERVATIONS (Record all observations below) (N) _N
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi	BIOLOGICAL OBSERVATIONS (Record all observations below) (N)
Fish Observed? (Y Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi	BIOLOGICAL OBSERVATIONS (Record all observations below) (N) _N
Fish Observed? (Y Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV	BIOLOGICAL OBSERVATIONS (Record all observations below) (N)
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAW Include	BIOLOGICAL OBSERVATIONS (Record all observations below) (N)
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAW Include	BIOLOGICAL OBSERVATIONS (Record all observations below) (N) _N
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV Include ∧ →	BIOLOGICAL OBSERVATIONS (Record all observations below) (N)
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAW Include ∧ →	BIOLOGICAL OBSERVATIONS (Record all observations below) (N) _N
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV Include /V ->	BIOLOGICAL OBSERVATIONS (Record all observations below) (N) _N
Fish Observed? (Y Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV Include	BIOLOGICAL OBSERVATIONS (Record all observations below) (N) _N
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV Include N ->	BIOLOGICAL OBSERVATIONS (Record all observations below) (Record all observations below) (N)
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAW Include N	BIOLOGICAL OBSERVATIONS (Record all observations below) (Record all observations below) (N)
Fish Observed? (YA Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAW Include N	BIOLOGICAL OBSERVATIONS (Record all observations below) (N)
Fish Observed? (Y Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV Include N ->	BIOLOGICAL OBSERVATIONS (Record all observations below) N1
Fish Observed? (Y Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV Include N	BIOLOGICAL OBSERVATIONS (Record all observations below) M)
Fish Observed? (Y Frogs or Tadpoles (Salamanders Obse Aquatic Macroinver Comments Regardi DRAV Include N	BIOLOGICAL OBSERVATIONS (Record all observations below) M)

	Modified Class II P	HW
Philo Headwate	HHEI Score (sum of metrics 1+2+3)	55
SITE NAME/LOCATION <u>AEP Fostoria</u> SITE NUMBER <u>INVER BASIN LENGTH OF STREAM REACH (ft) 470</u> DATE <u>6130/12</u> SCORER <u>BH 3C</u> NOTE: Complete All Items On This Form STREAM CHANNEL MODIFICATIONS:	A TO LIMA - Stream 1-007 (UNT TO ROCKY TO ROCKY FOR RIVER CODE DRAINAGE AREA (MP) LAT LONG -83, 574589 RIVER MILE D COMMENTS - Refer to "Headwater Habitat Evaluation Index Field Manual" for Inst NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR N	0.3 .3 In RECOVERY
1. SUBSTRATE (Estimatepercent of er (Max of 32). Add total number of signifi TYPE PE BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] BEDROCK [16 pts] COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] Total of Percentages of Bidr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBS	(A) (B) (C) (A) (B) (A) (B) (C) (B) (C) (B) (C) (C)	HHEI Metric Points Substrate Max = 40
2. Maximum Pool Depth (Measure the, time of evaluation. Avoid plunge pools > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] ☑ > 10 - 22.5 cm [25 pts]	maximum pool depth within the 61 meter (200 feet) evaluation reach at the from road culverts or storm water pipes) (Check ONLY one box): 5 cm - 10 cm [15 pts] 5 cm - 10 cm [15 pts] 5 cm - 10 cm [15 pts] NO WATER OR MOIST CHANNEL [0pts]	Pool Depth Max = 30
3. BANK FULL WIDTH (Measuredas th → 4.0 meters (>13') [30 pts] ⇒ 3.0 m - 4.0 m (> 9' 7"-13') [25 pts] → 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]	ne average of 3 - 4 measurements) (Check <i>ONL</i> Yone box): > 1.0 m - 1.5 m (> 3' 3° - 4' 8°)[15 pts] ≤ 1.0 m (≤ 3' 3°)[5 pts]	Bankfull Width Max=30
COMMENTS 9'	AVERAGE BANKFULL WIDTH (meters) 2.7	
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This information mustalso be completed PLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* FLOODPLAIN QUALITY (Most Predominant per Bank) L R Mature Forest, Wetland Immature Forest, Shrub or Old Field With Residential, Park, New Field Fenced Pasture	ор
FLOW REGIME (At Time of Eval Stream Flowing Subsurface flow with isolated po COMMENTS SINUOSITY (Number of bends) None 0.5 STREAM GRADIENT ESTIMATE	aluation) (Check ONLY one box); Moist Channel, isolated pools, no flow (intermitted pools intermitted pools inte	ent)
Flat (0.5 kr/100 k) Flat to Moderate	Moderate (2 10/100 10) . Moderate to Severe Severe (10 10 Page 1	100 /t.)

QHEI	PERFORMED? Yes 🖾 No QHEI Score (If Yes, Attach Completed QHEI form)
DOW	STREAM DESIGNATED USE(S)
WWH Name	Rocky Ford Distance from Evaluated Stream 3 nile.
EWH Name:	Distance from Evaluated Stream
MAP	ING: ATTACH COPIES OF MAPS INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadran	
County: Han	cock Township/City: Cass Township
MISC	
Base Flow Con	tions? (M) : Y Data of last acceletation: $6/26/2022$ Quantity: $0.12''$
Photo-documen	ation Notes: () PStream AUNStream and Substrate Plantos recorded
Flavated Turbid	V2/VAD: N COORDINATION // AND DESCRIPTION OF THE PROJECT OF THE PR
	strend forwards should be a state of the sta
Field Measures	Lab Sample # or ID (attach results):
rielu Measures	Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)
	Y
s the sampling	each representative of the stream (Y/N) If not, explain: ents/description of pollution impacts: BIOLOGICAL OBSERVATIONS (Record all observations below)
is the sampling Additional comm	each representative of the stream (Y/N) If not, explain:
Additional comm Fish Observed? Frogs or Tadpol	each representative of the stream (Y/N) If not, explain:
s the sampling Additional comm Fish Observed? Frogs or Tadpol Salamanders Ot	each representative of the stream (Y/N) <u>Y</u> If not, explain:
Additional comm Additional comm Fish Observed? Frogs or Tadpol Salamanders Ot Aquatic Macroin	each representative of the stream (Y/N) Y If not, explain: ents/description of pollution impacts:
Additional comm Fish Observed? Frogs or Tadpol Salamanders Of Aquatic Macroin Comments Rega	each representative of the stream (Y/N) Y If not, explain: ents/description of pollution impacts:
Is the sampling Additional comm Fish Observed? Frogs or Tadpol Salamanders Of Aquatic Macroin Comments Rega	each representative of the stream (Y/N) Y If not, explain: ents/description of pollution impacts:
Additional comm Additional comm Fish Observed? Frogs or Tadpol Salamanders Of Aquatic Macroin Comments Rega	each representative of the stream (Y/N) Y If not, explain:
Additional comm Additional comm Fish Observed? Frogs or Tadpol Salamanders Ot Aquatic Macroin Comments Rega DRJ Inclu	each representative of the stream (Y/N) Y If not, explain: ents/description of pollution impacts:
Additional comm Additional comm Fish Observed? Frogs or Tadpol Salamanders Of Aquatic Macroin Comments Rega DRJ Inclu	each representative of the stream (Y/N) Y If not, explain: ents/description of pollution impacts:
Additional comm Additional comm Fish Observed? Frogs or Tadpol Salamanders Ot Aquatic Macroin Comments Rega DRJ Inclu	each representative of the stream (Y/N) Y If not, explain: ents/description of pollution impacts:
Additional comm Additional comm Fish Observed? Frogs or Tadpol Salamanders Ot Aquatic Macroin Comments Rega DRJ Inclu	each representative of the stream (Y/N) Y If not, explain:
Additional comm Additional comm Fish Observed? Frogs or Tadpol Salamanders Ot Aquatic Macroin Comments Rega DR Inclu	each representative of the stream (Y/N) Y If not, explain: ents/description of pollution impacts:

ChicEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score: 44
Stream & Location: ACR Exclusion to (1940 - Stream Lacre PM: 2 ADate: (19612-
WAIT to Rockey Ford Real Ford And States Reve Hallister Reve Hallister Clie Davies 28
River Code:STORET #: Lat./Long.: UI and au 19 2 (2005) Office verified
11 SUBSTRATE Check ONLY Two substrate TYPE BOXES:
estimate % or note every type present Check ONE (Or 2 & average)
BLDR /SLABS [10]
BOULDER [9] DETRITUS [3] TILLS [1] SILT MODERATE [-1] Substrate
$\square GRAVEL [7] \qquad \square SILT [2] \qquad 7.0\% \qquad 10\% \qquad \square ARDPAN [0] \qquad \square FREE [1] \qquad S$
NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources) LACUSTURINE [0] 4 NODERATE [-1] Maximum
Comments SHALE [-1] NONE [1]
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal AMOUNT
quality; 3-Highest quality in moderate or greater amounts, but or highest quality or in small amounts of highest diameter log that is atable, well developed reaction of the state of the s
UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWATERS [1] MODERATE 25-75% [7]
OVERHANGING VEGETATION [1] ROOTWADS [1] AQUATIC MACROPHYTES [1] Z SPARSE 5-<25% [3]
ROOTMATS [1] BOULDERS [1] LOGS OR WOODY DEBRIS [1] NEARLY ABSENT <5% [1]
Comments Maximum 5
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY
□ HIGH [4] □ EXCELLENT [7] ☑ NONE [6] □ HIGH [3]
NONE [1] POOR [1] RECENT OR NO RECOVERY [1] Channel
Comments Maximum 20
4] BANK EROSION AND RIPARIAN ZONF Check ONE in each category for EACH BANK (Or 2 per bank & average)
River right looking downstream RIPARIAN WIDTH FLOOD PLAIN QUALITY
ROSION □ ☑ WIDE > 50m [4] ☑ ☑ FOREST, SWAMP [3] □ □ CONSERVATION TILLAGE [1]
MODERATE [2] ARROW 5-10m [2] RESIDENTIAL, PARK, NEW FIELD [1] MINING / CONSTRUCTION [0]
HEAVY / SEVERE [1] VERY NARROW < 5m [1] FENCED PASTURE [1]
Comments
5] POOL / GLIDE AND RIFFLE / RUN QUALITY
Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply Primary Contact
$ \square > 1m [6] \qquad \square POOL WIDTH > RIFFLE WIDTH [2] \ \square TORRENTIAL [-1] \ \square SLOW [1] \qquad Secondary Contact $
0.4-<0.7m [2] POOL WIDTH < RIFFLE WIDTH [0] FAST [1] INTERMITTENT [-2]
Comments
Indicate for functional riffles: Best areas must be large enough to support a population
of riffle-obligate species: Check ONE (Or 2 & average).
RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS
□ BEST AREAS 5-10cm [1] □ MAXIMUM < 50cm [1] □ MOD. STABLE (e.g., Large Gravel) [1] □ LOW [1]
☑ BEST AREAS < 5cm
Comments
6] GRADIENT (11.5 ft/mi) UVERY LOW - LOW [2-4] %POOL (70) %GLIDE
EPA 4520 06/16/06



ChicEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score: (19.5)
Stream & Location: App Fostoria to Lima Stream I-009 RM: 3,3 Date: 61 30 I ZZ UNT to Rocky Ford Scorers Full Name & Affiliation: Beth Holling, curs Davison, ES River Code: - Storers Full Name & Affiliation: Beth Holling, curs Davison, ES River Code: - Storers Full Name & Affiliation: Beth Holling, curs Davison, ES 1] SUBSTRATE Check ONLY Two substrate TYPE BOXES: estimate % or note every type present Check ONE (Or 2 & average) Office verified location II BEST TYPES BOULDER [9] OTHER TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE OHARDPAN [4] ULMESTONE [1] ULMESTONE [1] BEAVEL [7] BOULDER [9] DETRITUS [3] 0 Image: Comments Substrate Normal [0] Substrate [-1] Substrate [-1] Nonemal [0] FREE [1] Free [1] <t< td=""></t<>
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools. AMOUNT I UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWATERS [1] Check ONE (Or 2 & average) I OVERHANGING VEGETATION [1] ROOTWADS [1] I AQUATIC MACROPHYTES [1] SPARSE 5-<25% [3]
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4] EXCELLENT [7] NONE [6] HIGH [3] MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2] LOW [2] FAIR [3] RECOVERING [3] LOW [1] NONE [1] POOR [1] RECENT OR NO RECOVERY [1] Maximum 20
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average) River right looking downstream RIPARIAN WIDTH EROSION Image: Barborn and the state of t
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH Check ONE (ONLY!) CHANNEL WIDTH Check ONE (Or 2 & average) CURRENT VELOCITY Check ALL that apply ○ 1m [6] ② POOL WIDTH > RIFFLE WIDTH [2] Check ALL that apply Check ALL that apply ○ 0.7-<1m [4]
Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: RIFFLE DEPTH BEST AREAS > 10cm [2] BEST AREAS > 10cm [1] BEST AREAS > 5-10cm [1] BEST AREAS > 5-10cm [1] BEST AREAS > 5-10cm [1] Comments
6] GRADIENT (\6, 2 DRAINAGE AREA (2, 5) ft/mi) VERY LOW - LOW [2-4] MODERATE [6-10] %POOL: SO %RUN: %GLIDE: Gradient Maximum 10 EPA 4520 mi2 HIGH - VERY HIGH [10-6] %RUN: %ORIFFLE: 06/16/06



Philo Print Environmental Protection Agency	Headwater H	Modified Class Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)	47
SITE NAME/LOCATION SITE NUMBER LENGTH OF STREAM DATE/1/22_ OTE: Complete All TREAM CHANNEL	REACH (ft) 330 LAT SCORER BH &CD Items On This Form - Ref	D Lima - Stream 1-010 (UNT to Blancha Achast River River CODE DRAINAGE AREA (MP) T LONG -83.683494 RIVER MILE COMMENTS effer to "Headwater Habitat Evaluation Index Field Manual" for In DINE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OF	D.31 1.4 structions AND RECOVER
1. SUBSTRATE (Max of 32). A TYPE BLDR SLA BOULDER BOULDER BEDROCK COBBLE (GRAVEL (SAND (<2 Total of Pe Bidr Slabs, Boul SCORE OF TWO MOS	(Estimate percent of every t dd total number of significants PERCEN (>256 mm) [16 pts] [16 pts] 2-64 mm) [9 pts] mm) [6 pts] rcentages of der, Cobble, Bedrock T PREDOMINATE SUBSTRAT	type present). Check ONLY two predominant substrate TYPE boxes. substrate types found (Max of 8). Final metric score is sum of boxes A & B NT TYPE PERCENT PERCENT<	HHEI Metric Points Substrate Max = 40 7 A + B
2. Maximum Po time of evalua > 30 centimete > 22.5 - 30 cm > 10 - 22.5 cm	ol Depth (Measure the <u>maxin</u> tion. Avoid plunge pools from r rs [20 pts] [30 pts] [25 pts]	imum pool depth within the 61 meter (200 feet) evaluation reach at the road culverts or storm water pipes) (Check ONLY one box): 5 cm - 10 cm [15pts] < 5 cm [5pts] NO WATER OR MOIST CHANNEL [0pts] MAXIMUM POOL DEPTH (centimeters): 35	Pool Depth Max = 30
3. BANK FULL \ → 4.0 meters (> → 3.0 m - 4.0 m → 1.5 m - 3.0 m	WDTH (Measured as the ave 13') [30 pts] (> 9' 7'-13') [25 pts] (> 4' 8" - 9' 7") [20 pts] G /	erage of 3 - 4 measurements) (Check <i>ONL</i> Y one box):	Bankfull Width Max=30
COMMENTS	~	AVERAGE DANAFOLL WIDTH (meters)	
RIPARI L R (P Wide Mod Narr Non	AN ZONE AND FLOODPLAIN RIAN WIDTH er Bank) L e >10m [] erate 5-10m [] ow <5m	N QUALITY * NOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY (Most Predominant per Bank) R L R Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Field Urban or Industrial Residential, Park, New Field Open Pasture, Row C Fenced Pasture Mining or Construction	rop
FLOW Stream I Subsurf COMME SINUOS None 0 5	REGIME (At Time of Evaluatio Flowing ace flow with isolated pools (int NTS SITY (Number of bends per 61 1.0 1.5	on) (Check ONLY one box): Moist Channel, isolated pools, no flow (intermite Interstitial) Dry channel, no water (ephemeral) 1 m (200 ft) of channel) (Check ONLY one box): 2.0 3.0 2.5 3.0	ent)
STREAM GRA	DIENT ESTIMATE	Moderate (2 M100 B) Moderate to Severe Severe 10 B	100 8)

1	1
	AHEI PERFORMED? DYes ON QHEI Score (If Yes, Attach Completed QHEI form)
]	DOWNSTREAM DESIGNATED USE(S)
CWH N	ame: Distance from Evaluated Stream 1, 1 Mule
EWH N	ame: Distance from Evaluated Stream
	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
JSGS Qui	adranole Name: Find I av NRCS Soil Map Page: / NRCS Soil Map Stream Order: /
County: 1	Tancock County Township/City Liberty Township
1	
ase Elou	(Conditions) = 0.12''
Daseriow	Conductors (VM) Date of last precipitation: <u>Brobins</u> duantity. <u></u> duantity
-noto-doc	umentation Notes: UPPTICAM, DOWN DETECTION, DOUDDITATE PHOTOS LE COTORIO
levated T	urbidity?(Y/N): Canopy (% open):
Were sam	ples collected for water chemistry? (Y/N): Lab Sample # or ID (attach results):
ield Meas	ures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)
s the sam	pling reach representative of the stream (Y/N) $\underline{\mathcal{Y}}$ If not, explain:
Additional	comments/description of pollution impacts:
	BIOLOGICAL OBSERVATIONS
ich Ohce	(Record all observations below)
roos or T	adoples Observed2 (V/N) 4 Species observed (if known):
	supplies observed? (((i), A) Section chaptered (if known):
alamance	rs Observed? (YN) Species observed (if known);
Aquatic Ma	Croinvertebrates Observed? (Y/N) [Species Observed (it known).
A CONTRACTOR OF A CONTRACTOR O	Regarding Biology:
omments	
comments	
omments	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)
omments	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 location
Comments	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DENEWAY
Comments	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DENEWAY
comments	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DRIVEWAY MARDRAN'S SILT SMALL AURARIAN BUFFER JEL HARDRAN'S SILT
comments	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DEIVEWAY SMAL RIPARIAN BUFFER HARDRAN'S SILT DRY CHAWEL
or of the second	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DRIVEWAY SMALL RIPARIAN BUFFER HARDRAN& SILT 35 CM POR RIAAL RIPARIAN
or whether the second s	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DEIVEWAY SMALL RIPARIAN BUFFER HARDRAN'S SILT 35 CM POOL RIPARIAN BUFFER MANDEL DRY CHANNEL
DW (DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DRIVEWAY SMALL RIPARIAN BUFFER ARDRAWS SILT 35 CM POR SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER
	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DEIVEWAY SMALL RIPARIAN BUFFER HARDRANS SILT SMALL RIPARIAN BUFFER MALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER
	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DEVEWAY SMALL PIPARIAN BUFFER MARD PARIAN BUFFER MARD POR MALL PIPARIAN BUFFER MALL PIPARIAN BUFFER MALL PIPARIAN BUFFER MALL PIPARIAN BUFFER MALL PIPARIAN BUFFER MALL PIPARIAN BUFFER
	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location DRIVEWAY SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER SMALL RIPARIAN BUFFER

hio Diso Environmental Promoction Agency	Headwater H	labitat Eva	aluation Index HHEI Score (s	x Field I um of me	Form trics 1+2+3)	4)
TTE NAME/LOCATIO TTE NUMBER ENGTH OF STREAN ATE 7/1/22 TTE: Complete AN REAM CHANNEL	N AEP FOSTORIA (RIVER BASIN BLA REACH (ft) 200 LAT SCORER BH &CD Items On This Form - Ref MODIFICATIONS: NOT	Chard River Chard River 41.064 O (c) COMMENTS AL COMMENTS AL er to "Headwate	BHEOM 1-01 AVER CODE LONG HOUGH drainager Habitat Evaluation NEL @RECOVERED	1 (UNT DRAINA FOI 330 ge avea Index Field RECOVERIN	I to Blanch GE AREA (MP) 1. RIVER MILE C MILE C MANUAL AHEL A MANUAL OF INST IG RECENT OR N	Navd Ri S4 3.8 nas char in ructions
SUBSTRATE (Max of 32), A TYPE BLDR SL BOULDEF BEDROCH COBBLE GRAVEL GRAVEL SAND (<2 Total of P Bldr Slabs, Bou CORE OF TWO MO	(Estimate percent of every t dd total number of significants PERCEN ABS [16 pts] (>256 mm) [16 pts] (65-256 mm) [12 pts] (2-64 mm) [9 pts] ercentages of Ider, Cobble, Bedrock ST PREDOMINATE SUBSTRAT	ype present). Che ubstrate types fou TYPE O	ck ONLY <u>two</u> predomina nd (Max of 8). Final metr SILT [3 pt] LEAF PACK/WOODY [FINE DETRITUS [3 pts CLAY or HARDPAN [0 MUCK [0 pts] ARTIFICIAL [3 pts] TOTAL NUMBER OF	nt substrate 7 ic score is sur DEBRIS [3 pts b] pt] SUBSTRATE	(B) (Construction)	HHEI Metric Points Substrate Max = 40 G A + B
Maximum Petitime of evaluation > 30 centimeter > 22.5 - 30 cm > 10 - 22.5 cm COMMENT S	bol Depth (Measure the <u>maxin</u> ition. Avoid plunge pools from r rs [20 pts] [30 pts] [25 pts] 2 ^{'''}	num pool depth w oad culverts or sto	ithin the 61 meter (200 rm water pipes) (Che 5 cm - 10 cm [15 pts < 5 cm [5pts] NO WATER OR MOIS MAXIMUM POOL	feet) evaluati ick ONLYone] T CHANNEL _ DEPTH (cer	in reach at the box): [Opts] timeters): S ()	Pool Depth Max = 30
BANK FULL > 4.0 meters (> 3.0 m - 4.0 n > 1.5 m - 3.0 n	WIDTH (Measured as the ave > 13') [30 pts] (> 9' 7"- 13') [25 pts] (> 4' 8" - 9' 7") [20 pts]	rage of 3 - 4 meas	urements) (Check C > 1.0 m - 1.5 m (> 3' 3 ≤ 1.0 m (≤ 3' 3")[5 pts	NLY one box " - 4" 8")[15 pt 6]	s]	Bankfull Width Max=30
COMMENTS	6'		AVERAGE BANK	FULL WIDTH	(meters) 1.8	2
RIPAR	IAN ZONE AND FLOODPLAIN	his information r QUALITY * NO	nustalsobecomplete TE: RiverLeft (L) and R	d light (R) as loc	king downstream.	
L R (F 2010)	RIAN WIDTH er Bank) L e >10m □[erate 5-10m ⊠[row <5m	FLOODPLAIN Mature Fores Immature Fo Residential, F Fenced Past	QUALITY (Most Predo It, Wetland rest, Shrub or Old Field Park, New Field ure	minant per Ba	nk) nservation Tillage ban or Industrial en Pasture, Row Cro ing or Construction	q
FLOW Stream Subsuri COMM	REGIME (At Time of Evaluatio Flowing ace flow with isolated pools (int INTS	n) (Check ONLY erstitial)	one bax): Moist Channel, Dry channel, no	isolated pools water (ephe	s, no flow (intermitter meral)	nt)
SINUO None 0.5	SITY (Number of bends per 61 1.0 1.5 DIENT ESTIMATE	m (200 ft) of chan	nel) (Check ONLY one 2.0 2.5	box):	3.0 >3	
STREAM GRA	DIENT ESTIMATE				-	

	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
ł,	QHEI PERFORMED? DYes ZING QHEI Score (If Yes, Attach Completed QHEI form)
	DOWNSTREAM DESIGNATED USE(S)
WWH	Name: Blanchard Piver. Distance from Evaluated Stream 0.8 Mill
CWH 1	lame: Distance fromEvaluated Stream
EWH 1	lame: Distance fromEvaluated Stream
	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
SGS Qu	adrangle Name: Find lay NRCS Soil Map Page: NRCS Soil Map Stream Order:
ounty:	Liberty Township/city: Liberty Township
	MISCELLANEOUS
se Flov	v Conditions? (Y/N): Date of last precipitation:6/26/22 Quantity:01/2 ''
oto-do	cumentation Notes: Upstream, downstream, & Substrate photos recorded.
evated	Furbidity?(Y/N): Canopy (% open):80
ere san	nples collected for water chemistry? (Y/N): Lab Sample # or ID (attach results):
eld Mea	sures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)
the sar	npling reach representative of the stream (Y/N) If not, explain:
dolliona	I comments/description of pollution impacts:
Fish Obse Frogs or T Galamand Aquatic M	Image: Record all observations below) erved? (Y/N) M Species observed (if known): Fadpoles Observed? (Y/N) M Species observed (if known): ers Observed? (Y/N) M Species observed (if known): acroinvertebrates Observed? (Y/N) M Species observed (if known):
omments	Regarding Biology:
-	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)
	Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's leasting
	STED IN STREET STUDIODER STED
	SOPES ON FORESTED OTICITY WERE FORESTED
	W & WETLAND W
1	K K W
WC	211 ROOL HARDONI SILT & ROOL
V	G DRY CHANEL MUCK (1)
	GI V WERAWK IS WING W
	CARESTED WITH CAPPIDAR FORESTED
	FORESTED UNFORESTED UTILITY CORRIDOR PORESTED
	FORESTED UNFORESTED UTILITY COPPIDOR FORESTED
	FORESTED UNFORESTED UTILITY CORPIDOR FORESTED

May 2020 Revision

ChicEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score: (40.5)
Stream & Location: ASP Fastoria to Lima - Stran 1-017 RM: 0.7Date: 711122
What to Blanchard River Scorers Full Name & Affiliation: Reth Hollinder, Chris Davisson, ESI
River Code: STORET #: Lat./Long.: /8 . Office verified
1] SUBSTRATE Check ONLY Two substrate TYPE BOXES;
BEST TYPES POOL PIER OTHER TYPES POOL PIER ORIGIN QUALITY
BLDR /SLABS [10] HARDPAN [4] HEAVY [-2]
$\square \square OOBBLE [8] \square \square \square DETRITUS [3] ___ \square \square TILLS [1] SILT \square MODERATE [-1] Substrate$
GRAVEL [7] 30 7 0 I SILT [2] SO 7 HARDPAN [0] FREE [1] 7
□ SAND [6] □ ARTIFICIAL [0] □ SANDSTONE [0] □ EXTENSIVE [-2] □ SANDSTONE [5] □ SANDSTONE [0] □ BEDROCK [5] □ Movimum
NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources) LACUSTURINE [0] SS NORMAL [0] 20
Comments
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest the state of highest control of highest quality or in small amounts of highest quality or in small amounts of highest quality
diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.
UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWATERS [1] MODERATE 25-75% [7]
SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] I LOGS OR WOODY DEBRIS [1] NEARLY ABSENT <5% [1]
ROOTMATS [1] Cover
Maximum 20
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)
SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY
□ HIGH [4] □ EXCELLENT [7] ⊠ NONE [6] □ HIGH [3] ☑ MODERATE [3] □ GOOD [5] □ RECOVERED [4] □ MODERATE [2]
Comments
20
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)
□ NONE / LITTLE [3]
Comments Maximum 612
5] POOL / GLIDE AND RIFFLE / RUN QUALITY
MAXIMUM DEPTH CHANNEL WIDTH CURRENT VELOCITY Recreation Potential
□ > 1m [6] □ POOL WIDTH > RIFFLE WIDTH [2] □ TORRENTIAL [-1] □ SLOW [1] □ Secondary Contact
0.7-<1m [4] POOL WIDTH = RIFFLE WIDTH [1] VERY FAST [1] INTERSTITIAL [-1]
0.2 < 0.4m [1]
Commonto
Indicate for functional riffles; Best areas must be large enough to support a population
RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS
BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [2]
□ BEST AREAS < 5cm □ UNSTABLE (e.g., Fine Gravel, Sand) [0] □ MODERATE [0] Riffle /
Comments
6] GRADIENT (7 b) fr/mi) [] VERY I OW I OW 12-41
%POOL:((OU) %GLIDE:() Gradient
DRAINAGE AREA 🔯 MODERATE [6-10]
DRAINAGE AREA (4, 4 mi ²) HIGH - VERY HIGH [10-6] %RUN: 40 %RIFFLE: Maximum



ChicEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score: 33
Stream & Location: ASP Fostoria to Lina - Stream - 1-014 RM: 2,7Date: 71 123
UNT to Blanchard River Scorers Full Name & Affiliation: Beth Hollinder, Chris Davisson, ESI
River Code: STORET #: Lat./ Long.: 4] . 026699 183. 738527 Office verified Location
1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present Check ONE (Or 2 & average)
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN QUALITY
□ BOULDER [9] □ DETRITUS [3] □ TILLS [1] □ MARDPAN [4] □ DETRITUS [3] □ DETRITUS [3] □ DETRITUS [4]
$\Box \Box COBBLE [8] = \underline{J} = \Box \Box MUCK [2] = \Box WETLANDS [0] = UNORMAL [0] = $
SAND [6] 30 CARTIFICIAL [0] SANDSTONE [0] SANDSTONE [0] CARTENSIVE [-2]
NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources) LACUSTURINE [0] NORMAL [0] 20
Comments 3 or less [0] SHALE [-1] NONE [1]
21 INSTREAM COVER Indicate presence 0 to 2: 0 Abcest 4 Very and I among the intervention of
quality, 3-Highest quality in moderate or greater amounts (e.g., very large building in dear or greater amounts), but of highest quality or in small amounts of highest check ONE (Or 2 & average)
diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.
OVERHANGING VEGETATION [1] ROOTWADS [1] AQUATIC MACROPHYTES [1] SPARSE 5-<25% [3]
SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] LOGS OR WOODY DEBRIS [1] NEARLY ABSENT <5% [1]
Comments
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)
HIGH [4] EXCELLENT [7] NONE [6] THIGH [3]
NONE [1] Image: Poor [1] Image: Recovering [3] Image: Recovering
Comments Maximum 6
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)
NONE / LITTLE [3] D MODERATE 10-50m [3] SHRUB OR OLD FIELD [2] URBAN OR INDUSTRIAL [0]
HEAVY / SEVERE [1] U VERY NARROW < 5m [1] FENCED PASTURE [1]
Comments
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CURRENT VELOCITY Recreation Potential
Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply Primary Contact
□ > 1m [6]
0.4-<0.7m [2] POOL WIDTH < RIFFLE WIDTH [0] FAST [1] INTERMITTENT [-2] O.2-<0.4m [1] POOL WIDTH < RIFFLE WIDTH [0]
Indicate for reach - pools and nffles. Current
Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average).
RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS
BEST AREAS 5-10cm [1] MAXIMUM < 50cm [1] MOD. STABLE (e.g., Large Gravel) [1] LOW [1]
BEST AREAS < 5cm [metric=0] UNSTABLE (e.g., Fine Gravel, Sand) [0] UNSTABLE [0] Riffle T EXTENSIVE [-1]
Comments Maximum 8
6] GRADIENT (9,6 ft/mi) UVERY LOW - LOW [2-4] %POOL: 70 %GLIDE: Gradient
URAINAGE AREA Imidel rite [0:10] (, mi2) HIGH - VERY HIGH [10-6] %RUN: 30 %RIFFLE: Maximum 10
EPA 4520 06/16/06

AJ SAMPLED REACH Check ALL that apply METHOD STAGE	omment RE: Reach consistency/ Is	s reach typical of steam?, <i>Recreation</i>	/ Observed - Inferred, Other	Sampling observations, Concerns, Acce	ess directions, etc.
0.5 Km 0.2 Km 0.15 Km 0.15 Km 0.15 Km 0.15 Km 0.15 Km 141 -940 cm 0.12 Km 0.12 Km 140-70 cm 0.12 Km 140-70 cm 0.12 Km 0.12 K	BJAESTHETICS DISANCE ALGAE NUISANCE ALGAE NUSANCE ALGAE NUSANCE ALGAE NUSANCE ALGAE NUSANCE ALGAE NUSANCE ALGAE DISCOLORATION EXCESS TURBIDITY DISCOLORATION COL SHEEN OIL SHEEN OIL SHEEN NISANCE ODOR SLUDGE DEPOSITS CSOS/SSOS/OUTFALLS ATION AREA DEPTH POOL: 0.100ft2 0.3ft	DJ MAINTENANCE DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / OND SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / DNPANAS ISLANDS / SCOURED IMPOUNDED / DESICCATED IMPOUNDED / DRAINAGE	Circle some & COMMENT	EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING CBANK / EROSION / JURFACE FALSE BANK / MANURE / LAGOON WASH H20 / TILE / H20 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	FJ MEA SUREMENTS x width x depth max. depth max. depth bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x ² width entrench. ratio Legacy Tree:
Stream Drawing:	NT				
	row c	je op			
((Jood Old R	IPARIAN BUFFER AGUATICS I JOIN RUN INFRIMES I JOIN RUN	over-thind-two-	18cm	
	SMALL RIM	KIXN OF LEK OVE	ERHAND ING	>	
	PA	STURE			
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		1		· · · · ·	

	Modified Class II PHC	J
Phio Dis Lever meneral Protection Agency	Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)	12
SITE NAME/LOCATIO SITE NUMBER LENGTH OF STREAM DATE <u>7/2/2022</u> NOTE: Complete Al	DN <u>AEP Fostoria to Lima - Stream 1-016 (UNT to Blanchad River</u> RIVER BASIN <u>Blanchad River</u> RIVER CODE DRAINAGE AREA (MP) <u>O</u> M REACH (ft) <u>210</u> LAT <u>41.019456</u> LONG <u>-8.3.744906</u> RIVER MILE <u>3</u> - SCORER <u>JBH & CD</u> COMMENTS Il Items On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for Instr	25) .47 3.4 ructions
STREAM CHANNEL	MODIFICATIONS: NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO	ORECOVERY
1. SUBSTRATE (Max of 32)./ TYPE BLDR SL BOULDEF BEDROCI COBBLE GRAVEL SAND (<	E (Estimate percent of every type present). Check ONLY two predominant substrate TYPE boxes. Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B PERCENT TYPE PERCENT ABS [16 pts] I SILT [3 pt] ' 3O R (>256 mm) [16 pts] I EAF PACKWOODY DEBRIS [3 pts] (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] ' 5O (2-64 mm) [9 pts] ' G MUCK [0 pts] S_ Percentions of	HHEI Metric Points Substrate Max = 40
Bidr Slabs, Boi SCORE OF TWO MO	Percentages of (B)	A + B
2. Maximum P time of evalu > 30 centimet > 22.5 - 30 ct > 10 - 22.5 ct	Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the uation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): ters [20 pts]	Pool Depth Max = 30
COMMENTS	s 3// MAXIMUM POOL DEPTH (centimeters): 7.0	Bankfull
3. BANK FULL > 4.0 meters > 3.0 m - 4.0 ∑ > 1.5 m - 3.0	L WIDTH (Measured as the average of 3 - 4 measurements) (Check ONLY one box): (> 13') [30 pts] m (> 9' 7"- 13') [25 pts] m (> 4' 8" - 9' 7") [20 pts] (> 1.0 m (≤ 3' 3") [5 pts]	Width Max=30
COMMENT	s 5' AVERAGE BANKFULL WIDTH (meters) 1.52	
PIPA	This information must also be completed	
	PARIAN WIDTH (Per Bank) FLOODPLAIN_QUALITY (Most Predominant per Bank) Vide >10m L R L R Vide >10m Mature Forest, Wetland Conservation Tillage Ioderate 5-10m Immature Forest, Shrub or Old Field Urban or Industrial arrow <5m	qu
FLON Stream Subst COM	W REGIME (At Time of Evaluation) (Check ONLY one box): Im Flowing Moist Channel, isolated pools, no flow (intermitter urface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) IMENTS	nt)
SINU None 0.5 STREAM GI	IOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 3.0 1.5 2.5 >3 RADIENT ESTIMATE	-
Flat (0.5 %/100 %)	Flat to Moderate (2 6/100 6) Moderate to Severe Severe Severe (10 6/10	06 tu
May 2020 Revision	Page 1	

-	abbittionAL STREAM INFORMATION (This information must also be completed):
QHEI PERFO	DRMED? Yes X No QHEI Score (If Yes, Attach Completed QHEI form)
DOWNSTRE	AM DESIGNATED USE(S)
WWH Name: F	Distance from Evaluated Stream 3, 4 mile
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 Na	me: Findlay NRCS Soil Map Page: NRCS Soil Map Stream Order:
County: Hancoc	Township/city: Liberty Township
MISCELLA	NEOUS
Base Flow Conditions	? (Y/N): 4 Date of last precipitation: 7/1/22 Quantity: 0.57 "
Photo-documentation	Notes: Upstream, downstream, & substrate photos recorded.
Elevated Turbidity?(Y	/N): Canopy (% open):
Were samples collect	ed for water chemistry? (Y/N): Lab Sample # or ID (attach results):
Field Measures:Temr	(°C) Dissolved Oxygen (mg/l) pH (S II.) Conductivity (umbos/cm)
is the sampling race	
is the sampling react	representative of the stream (Y/N) If not, explain:
	BIOLOGICAL OBSERVATIONS
	(Record all observations below)
Fish Observed? (Y/N) N Species observed (if known):
Frogs or Tadpoles Of	served? (Y/N) Species observed (if known):
Salamanders Observ	ed? (Y/N) N Species observed (if known):
Aquatic Macroinvad	hrates Observed 20/00 01 Species observed (ifknown):
Aqualic macrolinverte	
Comments Regarding	/ Biology:
DRAW	NG AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)
Include in	portant landmarks and other features of interest for site evaluation and a narrative description of the stream's location
	DESIDENTIAL
N	CULVERD
n	
	SMALL RIPARIAN BUFFER
LOW	HARDPAN W/SILT&GRAVEL (3") OS & O
	SMALL RIPARIAN BLAFFER A M J
	ARTIFICIAL
	PAN) CROT

He: SITE NAME/LOCATION <u>ASP</u> SITE NAME/LOCATION <u>ASP</u> SITE NUMBERRIVE LENGTH OF STREAM REACH (ft), DATE <u>7</u> 12/22 SCORER NOTE: Complete All Items On I STREAM CHANNEL MODIFICAT 1. SUBSTRATE (Estimate p (Max of 32). Add total numb TYPE BLDR SLABS [16 pts] BOULDER (>256 mm) [BEDROCK [16 pts] COBBLE (65-256 mm) [GRAVEL (2-64 mm) [9] SAND (<2 mm) [6 pts] Total of Percentages of BIdr Slabs, Boulder, Cobble, SCORE OF TWO MOST PREDOMIN 2. Maximum Pool Depth (M time of evaluation. Avoid pl > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	adwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3) Z6 Festoria to Lima - Stream 1-oz1 (UNT to Ottawa Creek) R BASIN Ottawa Creek River code DRAINAGE AREA (mP) < 0.05 3S LAT 40.965293 LONG -83.800703 RIVER MILE N/A BH & CD COMMENTS This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for Instructions IONS: NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY Percent of every type present). Check ONLY two predominant substrate TYPE boxes. PERCENT TYPE PERCENT TYPE
SITE NAME/LOCATION <u>ASP</u> SITE NUMBER	Festoria to Lima - Stream 1-021 (UNT to Ottawa Creek) IR BASIN Ottawa Creek River code DRAINAGE AREA (MP) < 0.05 3S LAT 40.96S293 LONG -83.800703 RIVER MILE N/A BH & CD COMMENTS
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 SUBSTRATE (Estimatep (Max of 32). Add total numl TYPE BLDR SLABS [16 pts] BOULDER (>256 mm) [BEDROCK [16 pts] COBBLE (65-256 mm) [GRAVEL (2-64 mm) [9] SAND (<2 mm) [6 pts] Total of Percentages of Bldr Slabs, Boulder, Cobble, SCORE OF TWO MOST PREDOMIN Maximum Pool Depth (Mattime of evaluation, Avoid pl > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22 5 cm [25 pts] 	ercent of every type present). Check ONLY two predominant substrate TYPE boxes. ber of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B PERCENT TYPE PERCENT Metric
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	easure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the lunge pools from road culverts or storm water pipes) (Check ONLY one box): S cm - 10 cm [15 pts] S cm - 10 cm [5pts] NO WATER OR MOIST CHANNEL [0pts] MAXIMUM POOL DEPTH (centimeters): 2.5
3. BANK FULL WIDTH (Mea > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7"- 13') > 1.5 m - 3.0 m (> 4' 8" - 9' 7	sured as the average of 3 - 4 measurements) (Check ONLY one box): Bankfull] □ > 1.0 m - 1.5 m (> 3' 3" - 4' 8")[15 pts] Width][25 pts] □ ≤ 1.0 m (≤ 3' 3")[5 pts] ZO
COMMENTS 5	AVERAGE BANKFULL WIDTH (meters)
RIPARIAN ZONE A	This information <u>must</u> also be completed ND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream*
RIPARIAN WIDTH L R (Per Bank) X Wide >10m Image: Description of the second seco	FLOODPLAIN QUALITY (Most Predominant per Bank) L R L R Mature Forest, Wetland Immature Forest, Shrub or Old Field Urban or Industrial Residential, Park, New Field Fenced Pasture Mining or Construction
FLOW REGIME (At Stream Flowing Subsurface flow with COMMENTS	Time of Evaluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (intermittent) isolated pools (interstitial) Dry channel, no water (ephemeral)
SINUOSITY (Numbe None 0.5 STREAM GRADIENT ESTI	r of bends per 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 3.0 1.5 2.5 >3
Flat (0.5 M100 N) Flat to M	MATE

QHEI PERF	ORMED? Yes X No QHEI Score (If Yes, Attach Completed QHEI form)	
	AM DESIGNATED USE(S)	E Den
CWH Name:	Distance from Evaluated Stream	sice
EWH Name:	Distance from Evaluated Stream	
MAPPING:	ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.	
USGS Quadrangle N	ame: <u>Rawson</u> NRCS Soil Map Page: <u>/</u> NRCS Soil Map Stream Order:	/
county: Harco	Township/City: Union Township	
MISCELLA	NEOUS	
Base Flow Conditions	s? (Y/N): 1 Date of last precipitation: 7/1/22 Quantity: 0.57"	
Photo-documentation	Notes: Usstream, downstream, & substrate photos recorded	
Elevated Turbidity?()	(/N): Canopy (% open):	
Were samples collec	ted for water chemistry? (Y/N): Λ Lab Sample # or ID (attach results):	
Field Measures Tem	p (°C) Dissolved Oxygen (mg/l) pH (S II) Conductivity (umbos/cm)	
is the sampling road		
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	BIOLOGICAL OBSERVATIONS	
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May 2020 Revision

hio	Headwater I	HHEI Score (sum of metrics 1+2+3)
SITE NAME/LOCATIO SITE NUMBER LENGTH OF STREAN DATE <u>7/3/22</u> OTE: Complete All TREAM CHANNEL	N A2P FOSTORIA H RIVER BASIN OF REACH (ft) 200 LAT SCORER BH &CD Items On This Form - Re MODIFICATIONS: NO	D LIMA - Stream 1-022 (UNIT to Ottawa Creek tawa Creek River CODE DRAINAGE AREA (MP) 0.52 O.994133 LONG DRAINAGE AREA (MP) 0.52 COMMENTS for to "Headwater Habitat Evaluation Index Field Manual" for Instructions NE/ NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVER
1. SUBSTRATE (Max of 32). A TYPE BLDR SL BOUDER BEDROCH COBBLE GRAVEL GRAVEL SAND (<2 Total of P Bidr Slabs, Bou SCORE OF TWO MO	(Estimate percent of every Add total number of significant PERCE ABS [16 pts]	type present). Check ONL Y two predominant substrate TYPE boxes. substrate types found (Max of 8). Final metric score is sum of boxes A & B NT TYPE Image: Display transformed boxes PERCENT Image: Display transformed boxes Substrate Image: Display transformed boxes Substrate <t< th=""></t<>
2. Maximum Potime of evalue → 30 centimete → 22.5 - 30 cm → 10 - 22.5 cm COMMENTS	bol Depth (Measure the <u>maxi</u> ation. Avoid plunge pools from ers [20 pts] [30 pts] [25 pts] [3 ¹¹	mum pool depth within the 61 meter (200 feet) evaluation reach at the road culverts or storm water pipes) (Check ONLY one box): Pool Dept Max = 30 S cm - 10 cm [15 pts] < 5 cm [5pts]
3. BANK FULL > 4.0 meters (> 3.0 m - 4.0 m > 1.5 m - 3.0 m	WIDTH (Measuredas the av > 13') [30 pts] n (> 9' 7"- 13') [25 pts] n (> 4' 8" - 9' 7") [20 pts]	erage of 3 - 4 measurements) (Check ONLY one box): $\begin{array}{c} & & \\ &$
COMMENTS	4'	AVERAGE BANKFULL WIDTH (meters)
RIPA L R (f Mode Mode Mode Mode Nar Nar Nor Nor Nor	IAN ZONE AND FLOODPLAI RIAN WIDTH Per Bank) L le >10m Image: Compare the second se	This information must also be completed N QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* FLOODPLAIN_QUALITY (Most Predominant per Bank) R L R Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Field Urban or Industrial Residential, Park, New Field Open Pasture, Row Crop Fenced Pasture Mining or Construction
COMM FLOW Stream Subsur COMM SINUO	ENTS REGIME (At Time of Evaluati Flowing face flow with isolated pools (ir ENTS SITY (Number of bends per 6	on) (Check ONLY one box): Moist Channel, isolated pools, no flow (intermittent) Interstitial) Dry channel, no water (ephemeral) 1 m (200 ft) of channel) (Check ONLY one box):
None	· · · · · · · · · · · · · · · · · · ·	

	(If Yes, Attach Completed QHEI form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Ottawa Cheek CWH Name:	Distance fromEvaluated Stream Distance fromEvaluated Stream Distance fromEvaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE EN	TIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
SGS Quadrangle Name: RAWSON NRC	S Soil Map Page: / NRCS Soil Map Stream Order:
ounty: Harcock Town	Iship/city: Union Tourship
MISCELLANEOUS	
ase Flow Conditions? (Y/N): Date of last precipitation:	7/1/22 Quantity: 0.57"
hoto-documentation Notes: UPStream Jownstream	y, Ssubstrate photos recorded,
levated Turbidity?(Y/N): N Canopy (% open): 70	
Vere samples collected for water chemistry? (VN): N	ab Sample # or ID (attach results):
(ind Measures:Temp (*C) Dissolved Oxygen (mg/l)	oH (SU) Conductivity (umbos/cm)
$ \frac{1}{2} $ bisotres oxygen (mg/)	pri (0.0.) considering (united only
Fish Observed? (Y/N) \mathcal{N} Species observed (if known):	known):
Frogs or Tadpoles Observed? (Y/N) Species observed (if	<nown):< th=""></nown):<>
Salamanders Observed? (Y/N) <u>/V</u> Species observed (if know	n):
Aquatic Macroinvertebrates Observed/(//M)/ Species observed/	
Somments Regularing Diology	
Include important landmarks and other features of interest	IN OF STREAM REACT (THIS MUST DE COMPLETED)
N UNFORESTED	UTILITY CORRIDOR
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to de la	()
(2" mil wher	HARDPAN WIT
Moist Chr	in the second
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Chis Environmental Profession Agency	Headwater H	abitat Eva	aluation Inde HHEI Score (ex Field Form sum of metrics	n 1+2+3) 45
SITE NAME/LOCATIO SITE NUMBER // LENGTH OF STREAM DATE 7/5/12/ NOTE: Complete All	N <u>ASP</u> Fostoria to (RIVER BASIN <u>Claud</u> REACH (ft) <u>200</u> LAT SCORER <u>BH 8CD</u> Items On This Form - Ref	40.85055 COMMENTS _	RIVER CODE / RIVER CODE / 8 LONG -83.	DRAINAGE AF 9900S RIVE	REA (MP) 0.48 REA (MP) 0.48 RE MILE 1,9 Juli" for Instructions
STREAM CHANNEL		E / NATURAL CHAI			RECENT OR NO RECOVER
1. SUBSTRATE (Max of 32). A TYPE BLDR SLD BOULDER BEDROCK COBBLE GRAVEL SAND (<2	(Estimate percent of every ty, add total number of significant s ABS [16 pts] (>256 mm) [16 pts] (65-256 mm) [12 pts] (2-64 mm) [9 pts] 2 mm) [6 pts]	Pepresent). Che Ubstrate types for TYPE	ck ONLY <u>two</u> predomin and (Max of 8). Final me SILT [3 pt] LEAF PACK/WOODY FINE DETRITUS [3 p CLAY or HARDPAN [MUCK [0 pts] ARTIFICIAL [3 pts]	ant substrate TYPE bo tric score is sum of bo PERIS DEBRIS [3 pts] ts] 0 pt]	Dives Xes A & B CENT C C C C C C C C C C C C C
Total of P Bldr Slabs, Bou SCORE OF TWO MO	ercentages of Ider, Cobble, Bedrock	(A) TE TYPES: 3	TOTAL NUMBER O	F SUBSTRATE TYPE	(B) A + B
2. Maximum Po time of evalue > 30 centimete > 22.5 - 30 cm > 10 - 22.5 cm	bol Depth (Measure the <u>maxin</u> ation. Avoid plunge pools from r ers [20 pts] n [30 pts] n [25 pts]	num pool depth oad culverts or st D	vithin the 61 meter (20 orm water pipes) (Cl 5 cm - 10 cm [15 pt < 5 cm [5pts] NO WATER OR MOI MAXIMUM POO	0 feet) evaluation reac heck ONLYone box): s] ST CHANNEL [0pts]	Pool Dep Max = 30 20
3. BANK FULL >4.0 meters (3.0 m - 4.0 m > 1.5 m - 3.0 m	WIDTH (Measured as the ave > 13°) [30 pts] n (> 9' 7°- 13°) [25 pts] n (> 4' 8° - 9' 7°) [20 pts]	rage of 3 - 4 mea	surements) (Check > 1.0 m - 1.5 m (> 3' < 1.0 m (< 3' 3")[5 p	ONLYonebox): 3" - 4' 8")[15 pts] ts]	Bankful Width Max=30
COMMENTS	6'		AVERAGE BAN	IKFULL WIDTH (met	ers) 1.8
RIPAR	IAN ZONE AND FLOODPLAIN	This information	mustalso becomplet OTE: River Left (L) and	ed Right (R) as looking d	ownstream*
L R (F Wid Mot Nar COMM	RIAN WIDTH Per Bank) L de >10m [] derate 5-10m [] row <5m	R Mature Fore Immature F Residential, Fenced Pas	N QUALITY (Most Pred est, Wetland orest, Shrub or Old Fiel Park, New Field ture	Iominant per Bank) L R Conserva d Urban or M Open Pas Mining or	ation Tillage Industrial sture, Row Crop Construction
FLOW Stream Subsur COMM	REGIME (At Time of Evaluation Flowing face flow with isolated pools (int ENTS	n) (Check ONL terstitial)	Yone box): Moist Channe Dry channel,	el, isolated pools, no fi no water (ephemeral)	ow (intermittent)
SINUO None 0.5 STREAM GRA	SITY (Number of bends per 61 1.0 1.5 ADIENT ESTIMATE	m (200 ft) of cha	nnel) (Check ONLY or 2.0 2.5	ne box): 3.0 >3	
Flat (0.5 6/100 6)	Priat to Moderate	Moderate (2 \$/100 6	Moderate to	Severe	Severe (10 %100 %)
May 2020 Revision		5	Page 1		

A.D.D.		/This Information Must	t Also be Completed):	
	THONAL STREAM INFORMATION		Also be compressly	
QHEI PERFORM	IED? Yes INo QHEI Score.	(If Yes, Atta	ach Completed QHEI form)
MIGH DOWNSTREAM	DESIGNATED USE(S) betty CHERK	1	Distance fromEvaluated :	Stream 1.9 Mile
CWH Name:			Distance from Evaluated 3	Stream
MAPPING, ATTAC	Beavestam.	NPCS Soil Man Page	NRCS Soil Map	Stream Order:
County: Allen		Townshin/City: Richle	and Township	
	210	roundappoly.		
Base Flow Conditions? (Y	(/N): N Date of last precipita	tion: 7/5/22	Quantity: 0.85	11
Photo-documentation Note	es: UDStream, downstre	an, & substrate	e photas dacu	mented
Elevated Turbidity?(Y/N):	Y Canopy (% open):	90		
Were samples collected for	or water chemistry? (Y/N): N	Lab Sample # or ID (attach results):	
Field Measures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.)	Conductivity (u	mhos/cm)
is the sampling reach repr	resentative of the stream (Y/N) 4	If not, explain:		
Fish Observed? (Y/N)	BIOLOGICAL (Record all of N Species observed (if known)	<u>OBSERVATIONS</u>		
Frogs or Tadpoles Observ	ved? (Y/N) N Species observ	ed (if known):		
Salamanders Observed? ((Y/N) N Species observed (if)	known):		
Aquatic Macroinvertebrate	es Observed? (Y/N) Species	s observed (if known):		
Comments Regarding Biol	logy:			
DRAWING	AND NARRATIVE DESCRIP	PTION OF STREAM	REACH (This must	be completed)
A)				in the second strengthe
<.>>				
	ROWC	ROP		
IOW				
	SMALL RIPARIA	N BUFFER	a.o.	
	HARDPAN W/ SILT	- 35 CM) .	•
	ISCU RUN			
	SMALL RIPARIN	N BUFFER		

OhicEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score: UT
Stream & Location: ASP Fastoria to (ima - Stream 1-029 RM: 1.1Date: 71 S122
LONT to Sugar Creek Scorers Full Name & Affiliation: Beth Hollinden, Cluis Davisson, E
River Code: STORET #: Lat./ Long.: 40 809946 18 4. 024531 Office verified location
BEST TYPES OTHER TYPES Check ONE (Or 2 & average) BLDR /SLABS [10] OTHER TYPES OTHER TYPES BOULDER [9] OTHER TYPES OTHER TYPES DETRITUS [3] OTHER TYPES BOULDER [9] DETRITUS [3] MODERATE [-1] SUBSTRATE Check ONLY two substrate TYPE BOXES; Check ONE (Or 2 & average) OCHER TYPES OTHER TYPES POOL RIFFLE OTHER TYPES DETRITUS [3] OTHER TYPES OCHER TYPES ON THER TYPES OCHER TYPES OTHER TYPES OTHER
Image: Construction of the second state s
Comments State [-1] NONE [1]
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4] EXCELLENT [7] NONE [6] HIGH [3] MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2] LOW [2] FAIR [3] RECOVERING [3] CHANNEL CONTROL
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average) River right looking downstream RIPARIAN WIDTH BROSION WIDE > 50m [4] MODERATE [2] MODERATE 10-50m [3] MODERATE [2] MODERATE 10-50m [3] RIPARIAN WIDTH SHRUB OR OLD FIELD [2] RIPARIAN WIDTH CONSERVATION TILLAGE [1] RIPARIAN WIDTH SHRUB OR OLD FIELD [2] RIPARIAN WIDTH HEAVY / SEVERE [1] RIPARIAN WIDTH FOREST, SWAMP [3] RIPARIAN WIDTH HEAVY / SEVERE [1] RIPARIAN WIDTH RIPARIAN WIDTH RIPARIAN WIDTH Riparian
Maximum 4
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CHANNEL WIDTH Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply > 1m [6] POOL WIDTH > RIFFLE WIDTH [2] Check ALL that apply 0.7-<1m [4] POOL WIDTH = RIFFLE WIDTH [1] VERY FAST [1] INTERSTITIAL [-1] 0.4-<0.7m [2] 0.2-<0.4m [1] POOL WIDTH < RIFFLE WIDTH [0] FAST [1] NTERMITTENT [-2] 0.2-<0.4m [1] NICERSTICE [1] POOL WIDTH < RIFFLE WIDTH [0] FAST [1] NODERATE [1] POOLS and riffles.
Comments Maximum 12 Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). NO RIFFLE [metric=0] RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [2] BEST AREAS 5-10cm [1] MAXIMUM < 50cm [1]
6] GRADIENT (13 ft/mi) UVERY LOW - LOW [2-4] DRAINAGE AREA (3.33 mi2) HIGH - VERY HIGH [10-6] %POOL: 60 %GLIDE: Gradient %RUN: 40 %RIFFLE: 61 %Aximum 10
EPA 4520 06/16/06





ENVIRONMENTAL SOLUTIONS & INNOVATIONS, INC.

4300 Lynn Road, Suite 205 Ravenna, OH 44266 Phone: 513-451-1777 Fax: 513-451-3321

Pesi 2018

10 November 2023

Aldridge Electric 844 E. Rockland Road Libertyville, IL 60048

To Whom it May Concern:

RE: Addendum: AEP's Fostoria-East Lima 138 kV Transmission Line Rebuild Project in Liberty Township, Hancock County, Ohio

Aldridge Electric (AE) retained Environmental Solutions & Innovations, Inc. (ESI) on behalf of American Electric Power (AEP) to complete an ecological survey for the above referenced project in Hancock County, Ohio. ESI initially surveyed the main route for aquatic resources in July 2022.

On 16 October 2023, ESI re-visited the site and completed an ecological survey in one additional workspace within the Area of Investigation (AOI) that is the subject of this letter addendum. A forested portion of wetland 1-Z was identified within the additional workspace and mapped. One stream (1-012) and two wetlands (1-Z PEM and 1-AA) were extended beyond previous constraints and one additional upland sample point was taken within the workspace to characterize upland conditions. One NWI mapped resource was identified within the workspace. Figures showing the project location and the aquatic resource delineation are provided in Attachment 1. Representative photographs of wetlands and upland sample points and the stream are provided in Attachment 2 and field data sheets for sample points are provided in Attachment 3. Temporary or permanent impacts to these resources may require permits from the USACE and or OEPA.

Please contact me with any questions or requests for additional information. Thank you.

Sincerely,

ang ladik

Cory Kwolek, Scientist Email: <u>ckwolek@envsi.com</u> Mobile: (937) 671-2103

Attachments: Attachment 1 – Figures Attachment 2 – Site Photos Attachment 3 – Datasheets

www.ENVSI.com

ATTACHMENT 1 FIGURES









Project No. 2018

ATTACHMENT 2 SITE PHOTOS



Client/Site Name:

American Electric Power (AEP) Addendum: Fostoria to East Lima Line Rebuild Project Site Location: Hancock County, OH Project #: 2018



Wetland 1-Z PFO (North)



Wetland 1-Z PFO (East)



Wetland 1-Z PFO (South)



Wetland 1-Z PFO (West)

Client/Site Name:

American Electric Power (AEP) Addendum: Fostoria to East Lima Line Rebuild Project Site Location: Hancock County, OH Project #: 2018



Wetland 1-Z PFO (Soil)



Upland 2-SP-001 (North)



Upland 2-SP-001 (East)



Upland 2-SP-001 (South)

Client/Site Name:

American Electric Power (AEP) Addendum: Fostoria to East Lima Line Rebuild Project Site Location: Hancock County, OH Project #: 2018



Upland 2-SP-001 (West)



Upland 2-SP-001 (Soil)



Stream 1-012 (Upstream)



Stream 1-012 (Downstream)

Client/Site Name:

Site Location: Hancock County, OH Project #: 2018

American Electric Power (AEP) Addendum: Fostoria to East Lima Line Rebuild Project





Stream 1-012 (Substrate)
ATTACHMENT 3 DATASHEETS



WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 2018 Aldrich Fostoria - East Lima Project	nty: Hancock County Sampling Date: 2023-10-16
Applicant/Owner: Aldrich Electric	State: Ohio Sampling Point: 1-Z PFO
Investigator(c): C. Kwolek, E. Wilson	Townshin, Bango: S9 T1N R10E
Londform (hillolone torrace etc.), Depression	
Subregion (LRR or MLRA): 299 Lat: 41.057791	Long: -83.709031 Datum: WGS 84
Soil Map Unit Name: SnA - Sloan Ioam, 0 to 1 percent slopes, occasio	DNAILY flooded NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed	d? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic	? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sample	ing point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>V</u> No Is	the Sampled Area
Hydric Soil Present? Yes Vo W	ithin a wetland? Fes No
Wetland Hydrology Present? Yes <u>V</u> No If	yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Wetland sample point for PFO portion of 1-Z. San	nple taken within forested portion of
wetland. All three wetland criteria present.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	B9) Vinade Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres @	on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Inc	on (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction ir	n Tilled Soils (C6) 🛛 🗹 Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	ks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	✓ FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>No</u> Depth (inches):	
Saturation Present? Yes No <u>V</u> Depth (inches):	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	us inspections), if available:
Demode	
Remarks:	
Wetland hydrology present	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 Salix nigra	<u>55</u>	<u> </u>	OBL	Number of Dominant Species
 Populus tremuloides 	20	~	FACU	That Are OBL, FACW, or FAC: (A)
	20		17100	Total Number of Dominant
3				Species Across All Strata (B)
4		. <u> </u>	. <u> </u>	Percent of Dominant Species
5				$\frac{1}{1}$
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	75	= Total Cov	/er	OBL species 75 x 1 = 75
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 50 x 2 = 100
1. Fraxinus pennsylvanica	35	~	FACW	FAC species $\frac{35}{22}$ x 3 = $\frac{105}{22}$
2.				FACU species $\frac{20}{2}$ $x 4 = \frac{80}{2}$
3				UPL species 0 $x 5 = 0$
A				Column Totals: 180 (A) 500 (B)
				Prevalence Index = $B/A = 2.00$
5		·		Hydrophytic Vocatation Indicators
6		. <u> </u>		1 Banid Test for Hydrophytic Vegetation
7				\checkmark 2 - Dominance Test is >50%
	35	= Total Cov	/er	\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot size: 5 ft r)				4 - Morphological Adaptations ¹ (Provide supporting
_{1.} Equisetum hyemale	35	~	FAC	data in Remarks or on a separate sheet)
2. Leersia oryzoides	20	~	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Eupatorium perfoliatum	15	~	FACW	1
4.				Indicators of hydric soil and wetland hydrology must
5				
6				Definitions of Vegetation Strata:
7			·	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
<i>1</i>		·	·	at breast height (DBH), regardless of height.
8		. <u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than of equal to 3.28 ft (1 m) tail.
10		. <u> </u>	<u> </u>	Herb – All herbaceous (non-woody) plants, regardless
11		. <u> </u>		of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	70	= Total Cov	/er	neight.
Woody Vine Stratum (Plot size: 30 ft r)				
1.				
2				
3				Hudronhutio
0				Vegetation
4	0			Present? Yes V No
Pomarke: (Include photo numbers here or on a separate	choot)		/er	
Remarks. (include photo numbers here of on a separate	sneet.)			
Hydrophytic vegetation present				

SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s Trans 1	1 2	Tautom	Demode
(inches)		<u> </u>		%			lexture	Remarks
0 - 20	10YR 2/2	95	10YR 4/6	5	<u>C</u>	M	Mucky Loam/Clay	
		<u> </u>		<u></u>				
-								
		·		·		·		
-		·						
-								
-								
		·						
		·		·				
		·						
-								
·		·		·		·		
-				·		·		
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soll I	ndicators:		Delevelos Delev	0((00) (I D		Indicators	for Problematic Hydric Solis :
HISTOSOI	(A1) vinedon (A2)		Polyvalue Belov	w Surrace	(58) (LR	κĸ,	2 cm M	UCK (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRP K L P)
Black Hi	stic (A3)		Thin Dark Surfa		LRR R. M	LRA 149B)	5 cm M	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Mucky N	/lineral (F	1) (LRR K	., L)	Dark Su	urface (S7) (LRR K, L)
Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2	2)		Polyval	ue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface	e (A11)	Depleted Matrix	: (F3)			Thin Da	ark Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Redox Dark Su	rface (F6)) \		Iron-Ma	anganese Masses (F12) (LRR K, L, R)
Sandy M	lucky Mineral (S1)		Depleted Dark S	Surface (I	-7)		Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
Sandy G	edox (S5)		Redux Depress				Nesic 3	rent Material (F21)
Stripped	Matrix (S6)						Verv St	nallow Dark Surface (TF12)
Dark Su	face (S7) (LRR R, N	/ILRA 1491	3)				Other (Explain in Remarks)
³ Indicators of	hydrophytic vegetat	tion and we	etland hydrology mus	t be pres	ent, unles	s disturbed	or problematic	
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	ches):		<u> </u>				Hydric Soil	Present? Yes <u> </u>
Remarks:								
Hydric s	oil present							
l i j an o o	on procent							

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 2018 Aldrich Fostoria - East Lima Project	City/County: Hancock Cou	nty	Sampling Date: 2023-10-16		
Applicant/Owner: Aldrich Electric		State: Ohio	Sampling Point: 2-SP-001		
Investigator(s): C. Kwolek, E. Wilson	Section, Township, Range: S	9 T1N R10E			
Landform (hillslope, terrace, etc.): Upland, Depression	Local relief (concave, convex, no	ne): Concave	Slope (%): <u>1</u>		
Subregion (LRR or MLRA): <u>L 99</u> Lat: <u>41.057</u>	7344 Long: -83	3.710152	Datum: WGS 84		
Soil Map Unit Name: SnA - Sloan loam, 0 to 1 percent sl	opes, occasionally flooded	NWI classific	cation: R2UBH		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology signil	ficantly disturbed? Are "Norma	l Circumstances" p	present? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology natur	ally problematic? (If needed,	explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site map sho	owing sampling point location	ons, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	V Is the Sampled Area within a Wetland?	Yes	No		
Wetland Hydrology Present? Yes No	If yes, optional Wetland	Site ID:			
Remarks: (Explain alternative procedures here or in a separat	te report.)				
Upland sample point taken to characte	rize upland conditions.	Sample poi	int taken within		

forest adjacent to PEM and perennial stream. Although hydrophytic vegetation is present, no hydric soil or hydrology is present.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	oils (C6) 🖌 Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:	
No wetland hydrology present	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 Ulmus americana	45	<u> </u>	FACW	Number of Dominant Species
2 Acer saccharinum	15	~	FACW	$\frac{1}{2}$
3 Rhamnus cathartica	15	~	FAC	Total Number of Dominant Species Across All Strata: 6 (B)
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
S	·			
7	·			Prevalence Index worksheet:
7	75			Total % Cover of: Multiply by:
	/5	= Total Cov	ver	OBL species $\frac{0}{70}$ $x_1 = \frac{0}{140}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $\frac{76}{55}$ $x_2 = \frac{140}{165}$
1. Lonicera maackii	20	<u> </u>		FAC species 0 $x_3 = 0$
2				$\frac{1}{10} \text{ species } 0 \qquad x_5 = 0$
3				Column Totals: 125 (A) 305 (B)
4	. <u> </u>			
5				Prevalence Index = B/A = 2.44
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
·	20	- Total Car		✓ 2 - Dominance Test is >50%
Had Otation (Distained 5 ft r				3 - Prevalence Index is ≤3.0 ¹
<u>Hero Stratum</u> (Plot size: <u>5101</u>)	25		540	4 - Morphological Adaptations ¹ (Provide supporting
	25	<u> </u>	FAC	data in Remarks or on a separate sheet)
2. Cryptotaenia canadensis	15	<u> </u>	FAC	Problematic Hydrophytic Vegetation (Explain)
3. Elymus virginicus	10	<u> </u>	FACW	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7.				at breast height (DBH), regardless of height.
8.				Continue (about a locate location 2 in DDI)
9				and greater than or equal to 3.28 ft (1 m) tall.
10				
10				of size, and woody plants less than 3.28 ft tall.
11				We during All words vince greater than 2.29 ft in
12		. <u> </u>		height.
	50	= Total Cov	ver	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3	. <u> </u>			Hydrophytic
4				Vegetation
	0	= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate s	sheet.)			1
Hydrophytic vogotation procent				
Hydrophytic vegetation present				
1				

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix Redox Features							
(inches)	Color (moist)		Color (moist)		Type'	Loc	Texture	Remarks
0 - 20	10YR 3/3	100					Silty Clay Loam	
-								
-								
-								
_								
-								
-								
-								
-								
-								
¹ Type: C=Co	oncentration, D=Dep	letion, RM=R	Reduced Matrix, M	S=Maskec	I Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:		, , , , ,				Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surface	(S8) (LRF	R,	2 cm M	1uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast I	Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		_ Thin Dark Surfa	ace (S9) (L	.RR R, MI	LRA 149B)	5 cm N	lucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		_ Loamy Mucky N	Aineral (F	1) (LRR K	, L)	Dark S	urface (S7) (LRR K, L)
Stratified	Layers (A5)	- (0.44)	_ Loamy Gleyed	Matrix (F2)		Polyva	lue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface	e (A11)	Depleted Matrix	((F3) rfaaa (E6)				ark Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Redux Dark Su Depleted Dark	Surface (F0)	7)		IIOII-IVIa Piedmo	anganese masses (F12) (LKK K, L, K)
Sandy G	ileved Matrix (S4)	—	Redox Depress	ions (F8)	,,		Mesic S	Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)	_					Red Pa	arent Material (F21)
Stripped	Matrix (S6)						Very S	hallow Dark Surface (TF12)
Dark Su	face (S7) (LRR R, N	ILRA 149B)					Other (Explain in Remarks)
³ Indicators of	hydrophytic vegetat	tion and wetla	and hydrology mus	st be prese	ent, unless	s disturbed	or problematic	
Restrictive L	_ayer (if observed):							
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:								
		.+						
NO HYUH	c son preser	IL						

Background Information

Name: Cory Kwolek

Date: 11/8/2023

Affiliation: Environmental Solutions & Innovations, Inc.

Address: 4525 Este Ave., Cincinnati, OH 45232

Phone Number: 937-671-2103

e-mail address: ckwolek@envsi.com

Name of Wetland: Wetland 1-Z

Vegetation Communit(ies): PEM, PFO

HGM Class(es): Emergent, Forested

Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.

Please see Figures 1 and 2 in associated Ecological Survey Report.

Lat/Long or UTM Coordinate 41.057	472 -83.709640
USGS Quad Name	Findlay
County	Hancock
Township	Liberty
Section and Subsection	OH01 T1N R10E SN9
Hydrologic Unit Code	041000080304
Site Visit	7/1/2022
National Wetland Inventory Map	N/A
Ohio Wetland Inventory Map	N/A
Soil Survey	SnA
Delineation report/map	Yes

Name of Wetland: Wetland 1-Z	
Netland Size (acres, hectares):	0.32 ac
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.	
Please see Figures 1 and 2 in associated Ecological Survey Report.	
Comments, Narrative Discussion, Justification of Category Changes:	
Final score : 23 Category:	1

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	\checkmark	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human- induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	\checkmark	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	\checkmark	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.		
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		\checkmark
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.		\checkmark

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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), <u>http://www.dnr.state.oh.us/dnap</u>. 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 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 Columbus 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 erec	<u> </u>
#	QUESTION	Circie 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 designed by the U.S. Fish and Wildlife Service as "stituted"	YES	
	habitat" for any threatened or endangered plant or animal species?	evaluated for possible	Go to Question 2
	Note: as of January 1, 2001, of the federally listed endangered or	Category 3 status	
	threatened species which can be found in Ohio, the Indiana Bat has	On the Ownertian O	
	had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812, July 6, 2000)	Go to Question 2	~
2	Threatened or Endangered Species. Is the wetland known to contain	YES	(NO)
	an individual of, or documented occurrences of federal or state-listed		\sim
	threatened or endangered plant or animal species?	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 guality wetland?	YES	NO
		Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	h
4	Significant Breeding or Concentration Area. Does the wetland	YES	NO
	contain documented regionally significant breeding or nonbreeding	Watland is a Catagony	Co to Question 5
	waterrowi, neotropical songoira, or shoreoira concentration areas?	3 wetland	Go to Question 5
	On the second Matthewards and the standard large three O.E. has been a (4 and 2)	Go to Question 5	
Э	in size and hydrologically isolated and either 1) comprised of	1ES	NO
	vegetation that is dominated (greater than eighty per cent areal cover)	Wetland is a Category	Go to Question 6
	by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or	1 wetland	
	2) an acidic pond created or excavated on mined lands that has little or no vegetation?	Go to Question 6	,
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no	YES	ÍNO>
	significant inflows or outflows, 2) supports acidophilic mosses,		
	particularly Sphagnum spp., 3) the acidophilic mosses have >30%	Wetland is a Category	Go to Question 7
	cover of invasive species (see Table 1) is <25%?		
		Go to Question 7	
<u>7</u>	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free	YES	NO
	flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0)	Wetland is a Category	Go to Question 8a
	and with one or more plant species listed in Table 1 and the cover of	3 wetland	
	invasive species listed in Table 1 is <25%?	Go to Question 82	
8a	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	NO
	forest characterized by, but not limited to, the following characteristics:		\sim
	overstory canopy trees of great age (exceeding at least 50% of a	Wetland is a Category	Go to Question 8b
	of human-caused understory disturbance during the past 80 to 100	o wettand.	
	years; an all-aged structure and multilayered canopies; aggregations of	Go to Question 8b	
	canopy trees interspersed with canopy gaps; and significant numbers		
	or standing dead snags and downed logs?	l	

Bb Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters a threast height (dbh), generally diameters greater than 45cm (17.7in) dbh? YES Co 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? Go to Question 9a Go to Question 9a 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 terstricted 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 10 9c Are Lake Erie water levels the wetland's primary hydrological influence, i.e. 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 9d Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native plant species within its vegetation communities? YES NO 9d Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities? YES No Go to Question 10
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Lucas, Fullon, Henry, or wood Counties and can the welland be
characterized by the following description: the wetland has a sandy Wetland is a Category Go to Question 11
substrate with interspersed organic matter, a water table often within 3 wetland.
several inches of the surface, and often with a dominance of the
gramineous vegetation listed in Table 1 (woody species may also be Go to Question 11
present). The Ohio Department of Natural Resources Division of
Natural Areas and Preserves can provide assistance in confirming this
11 Relict Wet Prairies. Is the wetland a relict wet prairie community VES
dominated by some or all of the species in Table 1. Extensive prairies
were formerly located in the Darby Plains (Madison and Union Wetland should be Complete
Counties), Sandusky Plains (Wyandot, Crawford, and Marion evaluated for possible Quantitative
Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), Category 3 status Rating
and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,
Nonigomery, van wen etc.j.

Table 1. Characteristic plant species.	
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invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.



ORAM v. 5.0 Field Form Quantitative Rating



23

End of Quantitative Rating. Complete Categorization Worksheets.

3

Present in moderate or greater amounts

and of highest quality

ORAM Summary	Worksheet
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		circle	
		answer or	
		insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES (NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES (NO)	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	2	
-	Metric 2. Buffers and surrounding land use	4	
	Metric 3. Hydrology	9	
	Metric 4. Habitat	9	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	-1	
	TOTAL SCORE	23	Category based on score breakpoints
			Category 1

Complete Wetland Categorization Worksheet.

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	THO IN THE INCLUSION	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES (Wetland should be evaluated for possible Category 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the <i>"gray zone"</i> for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
Does the wetland otherwise exhibit <i>moderate OR superior</i> hydrologic OR habitat, OR recreational functions AND the wetland was <i>not</i> categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.



End of Ohio Rapid Assessment Method for Wetlands.