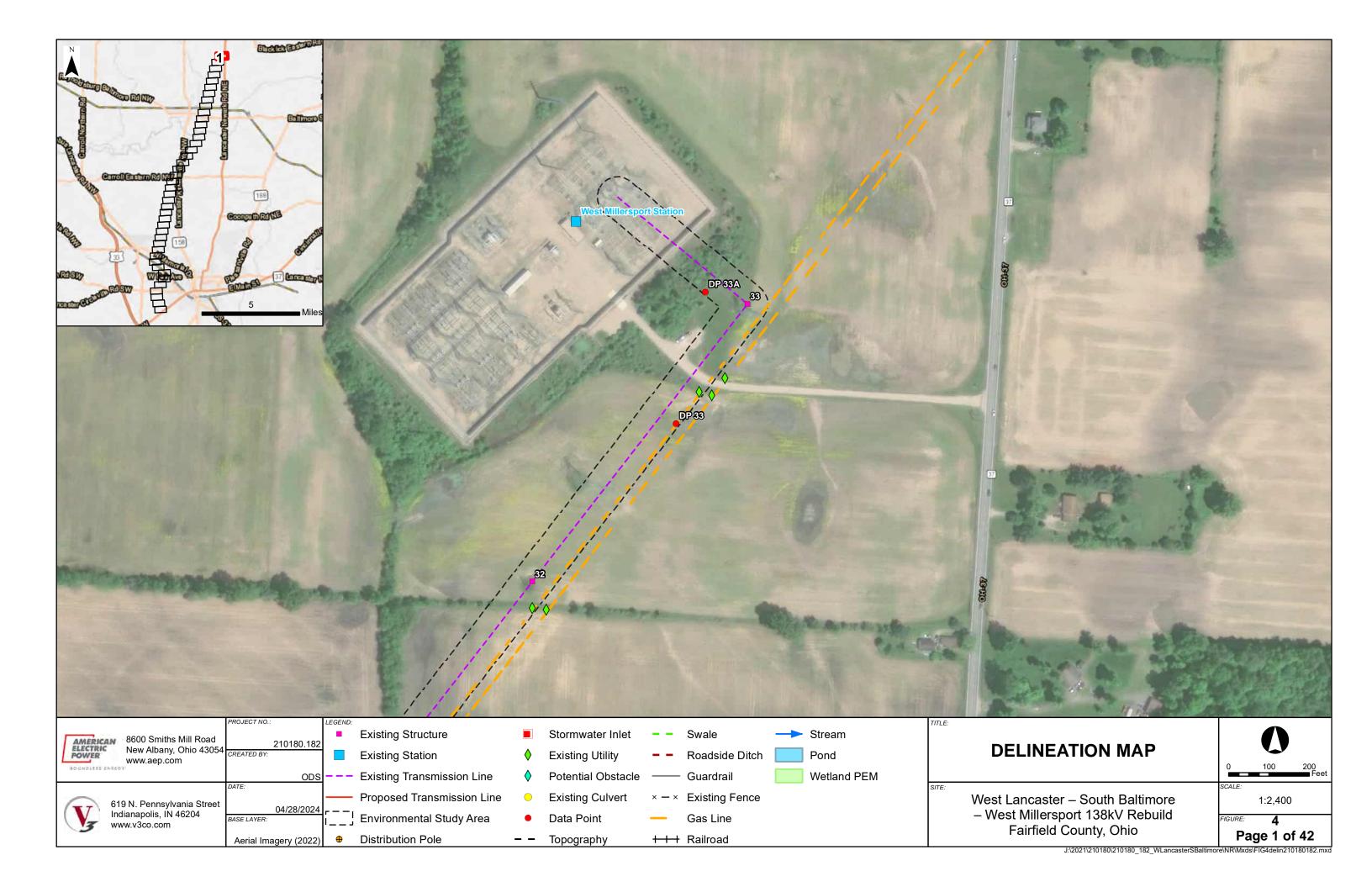
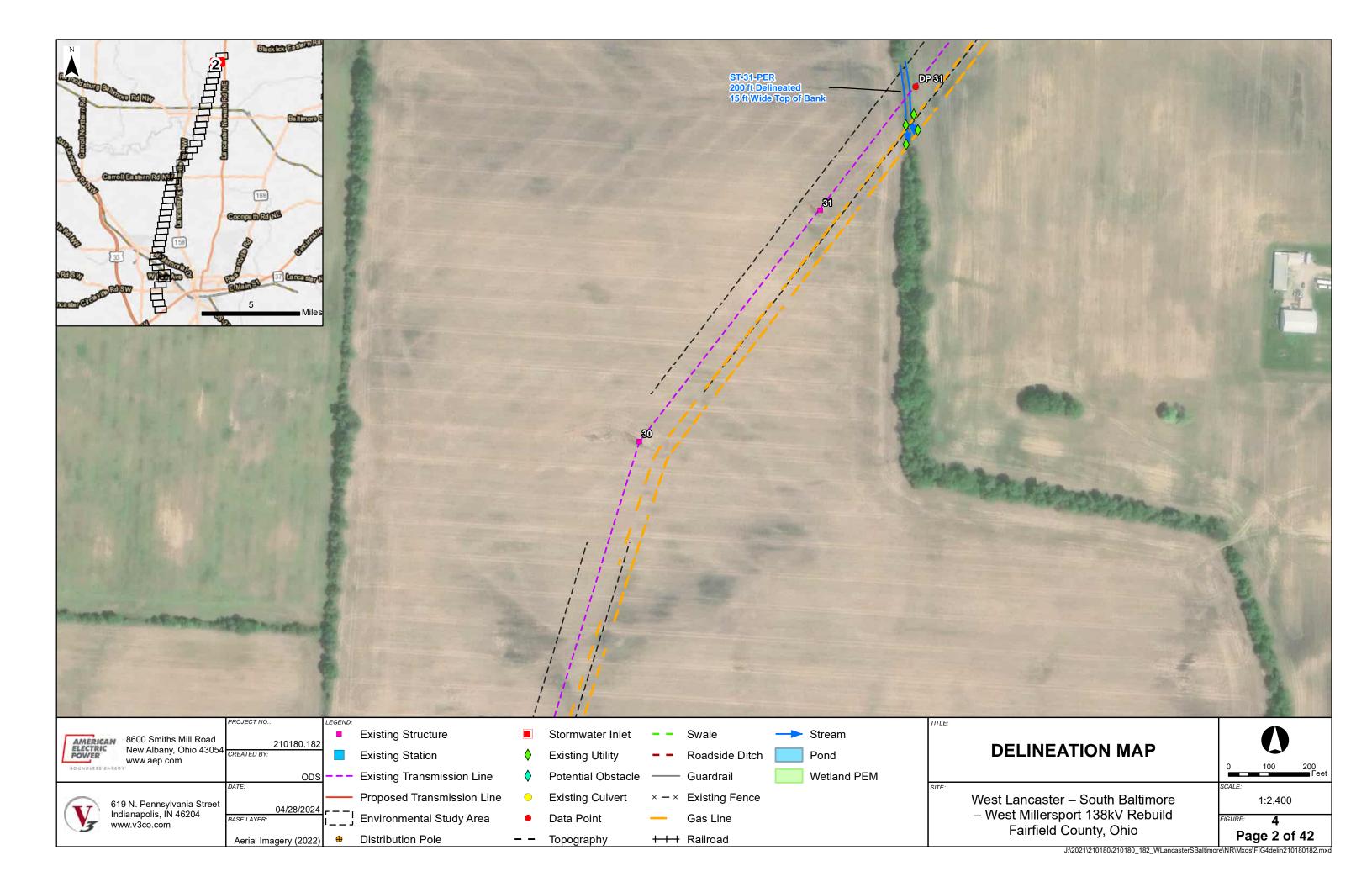
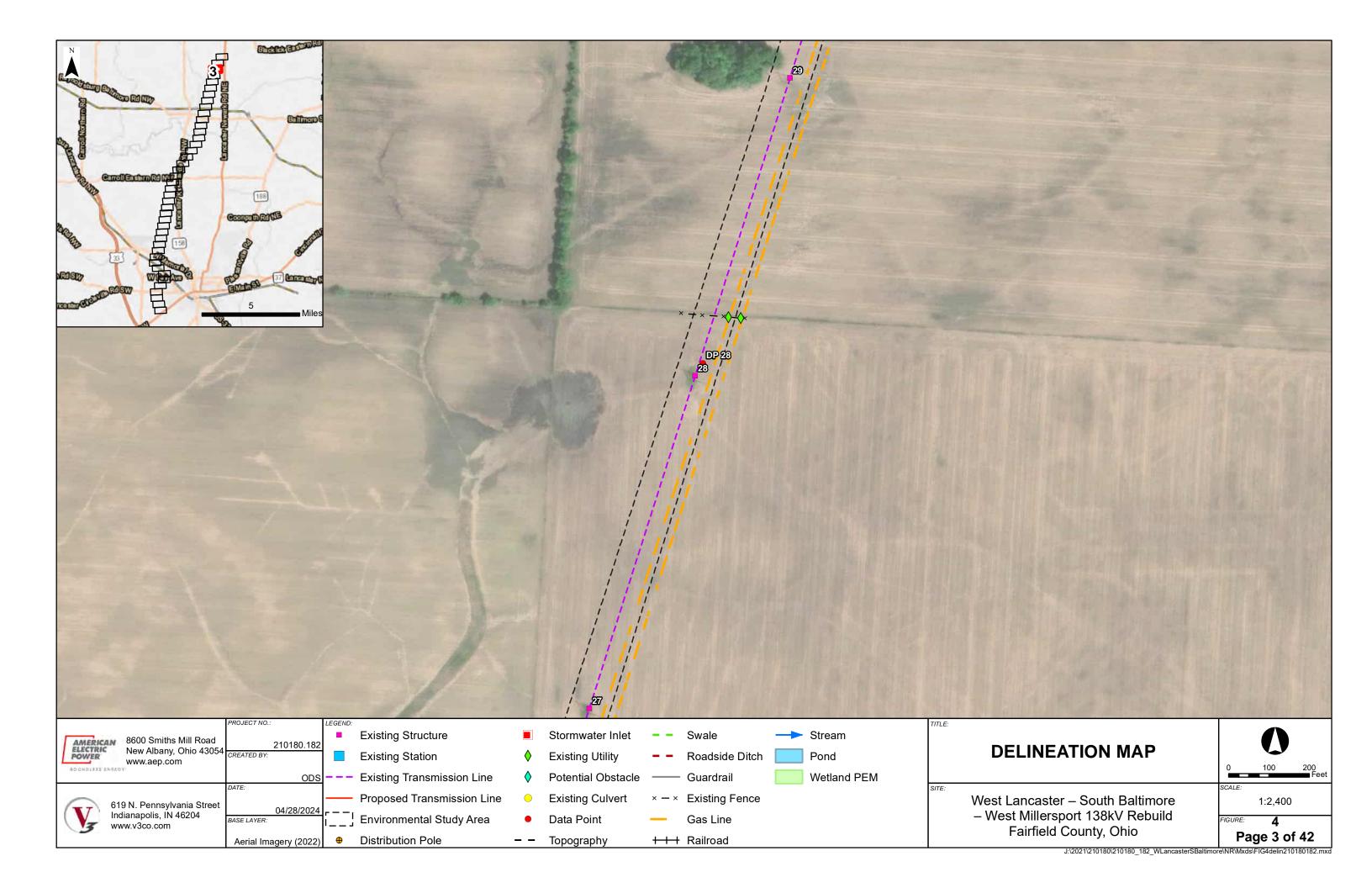
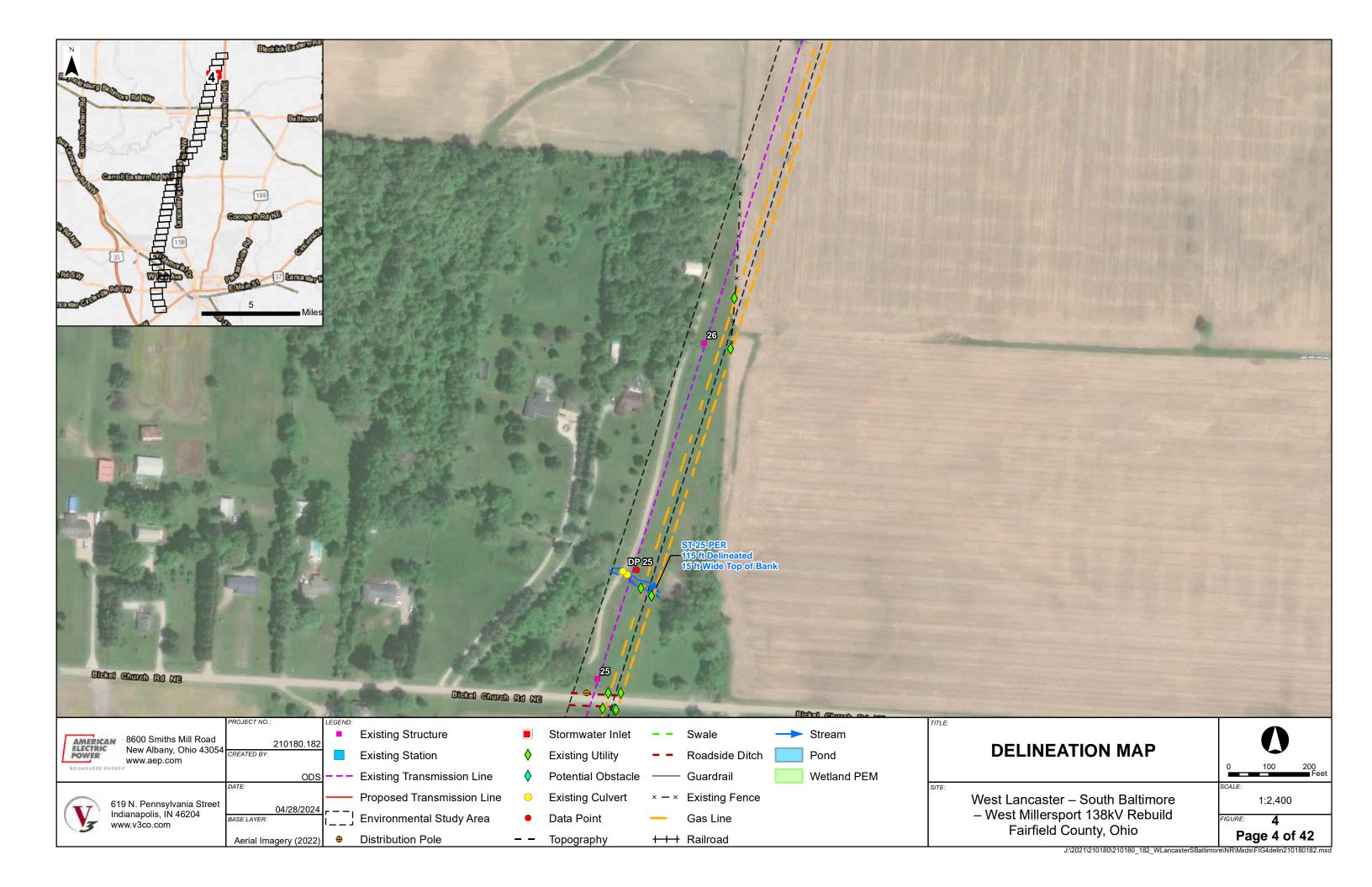
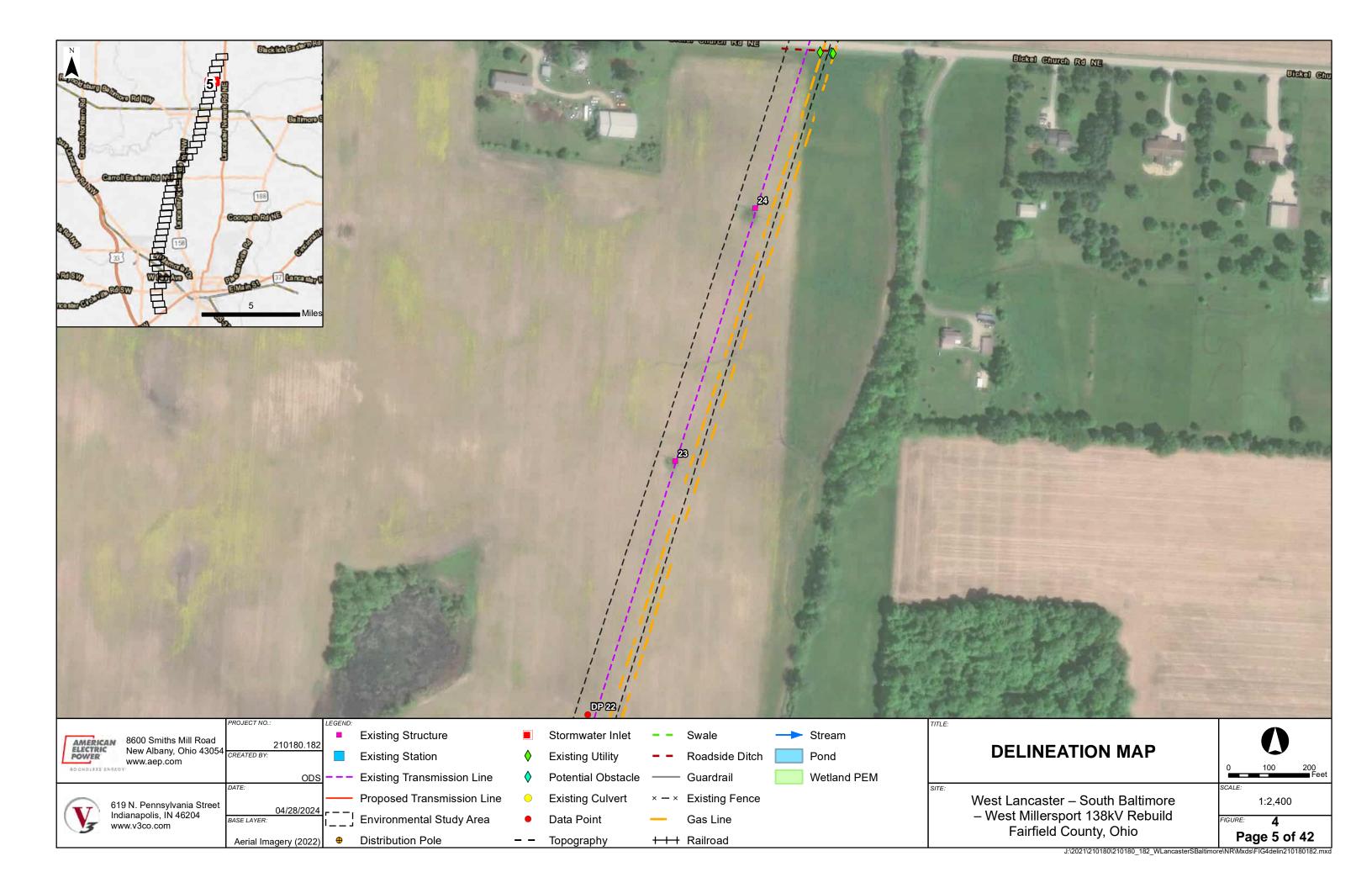
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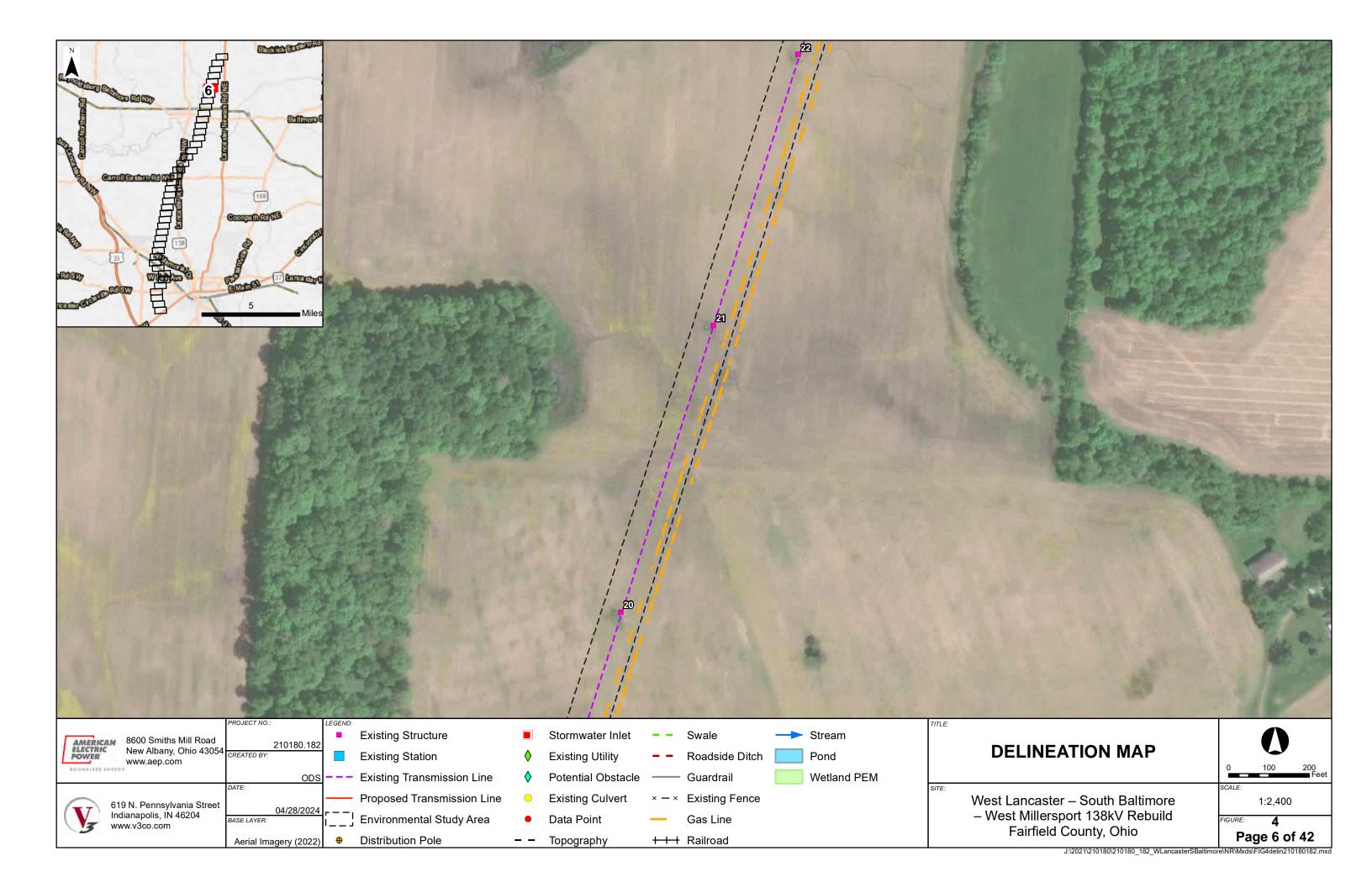


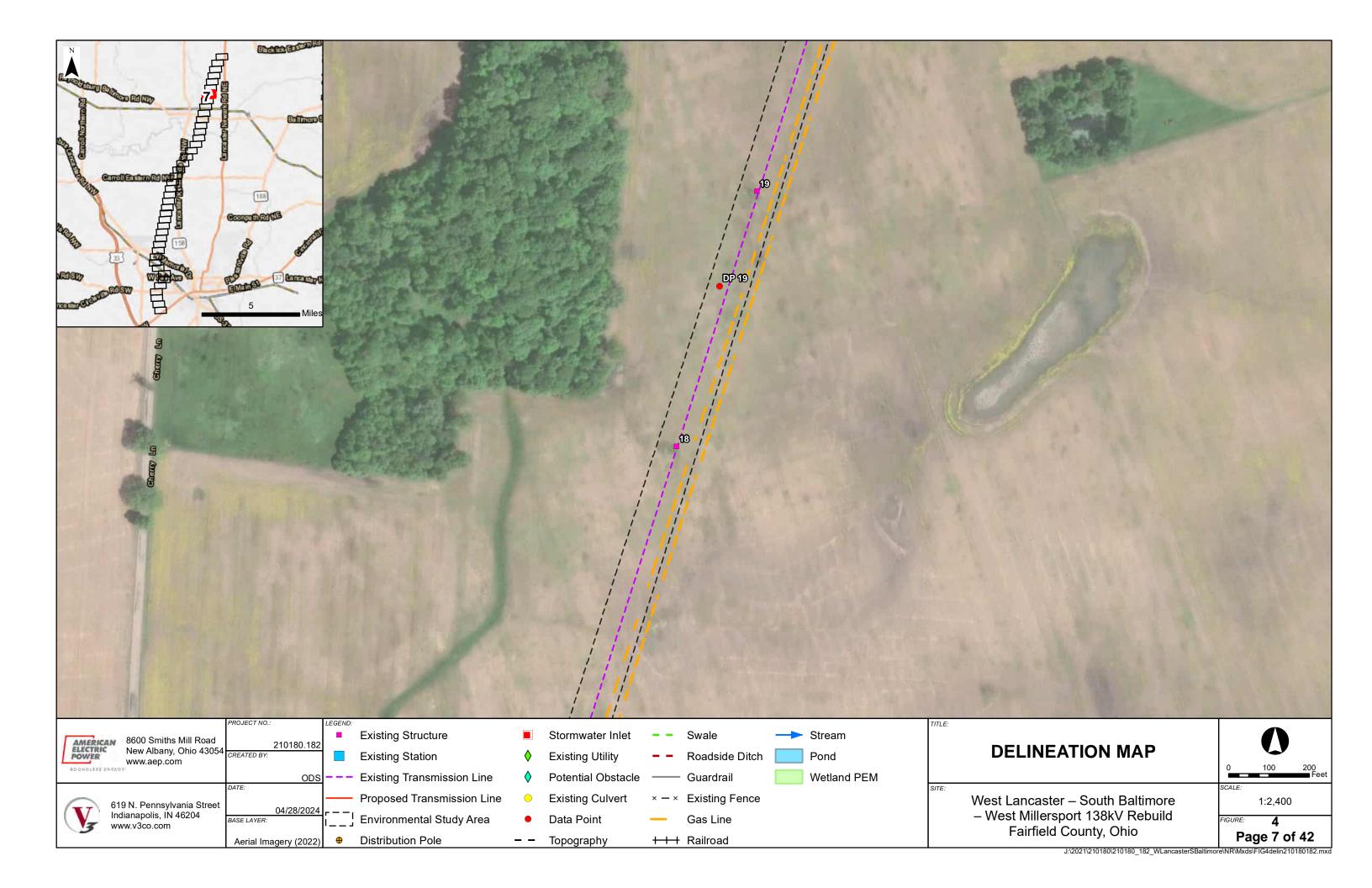


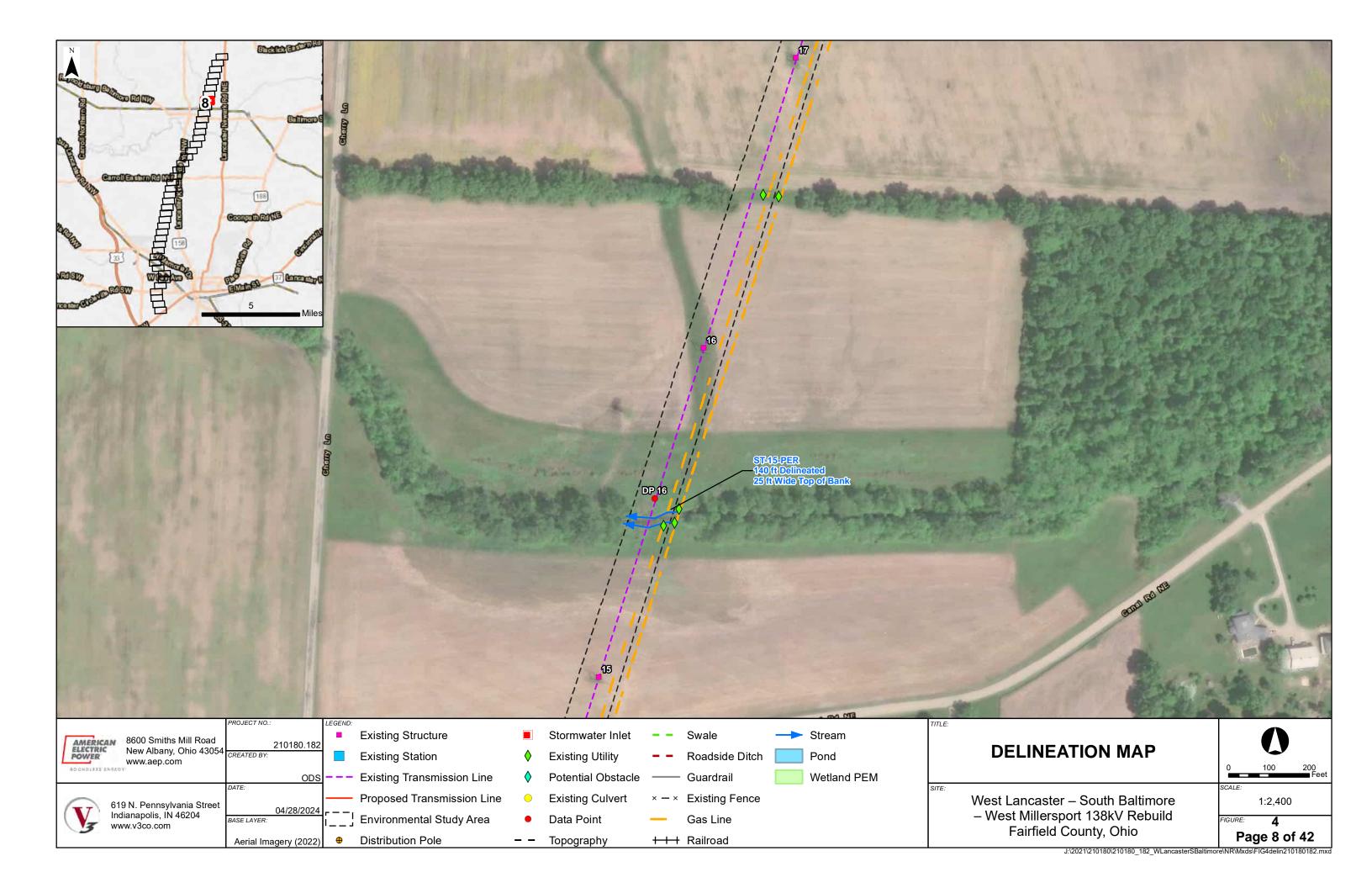


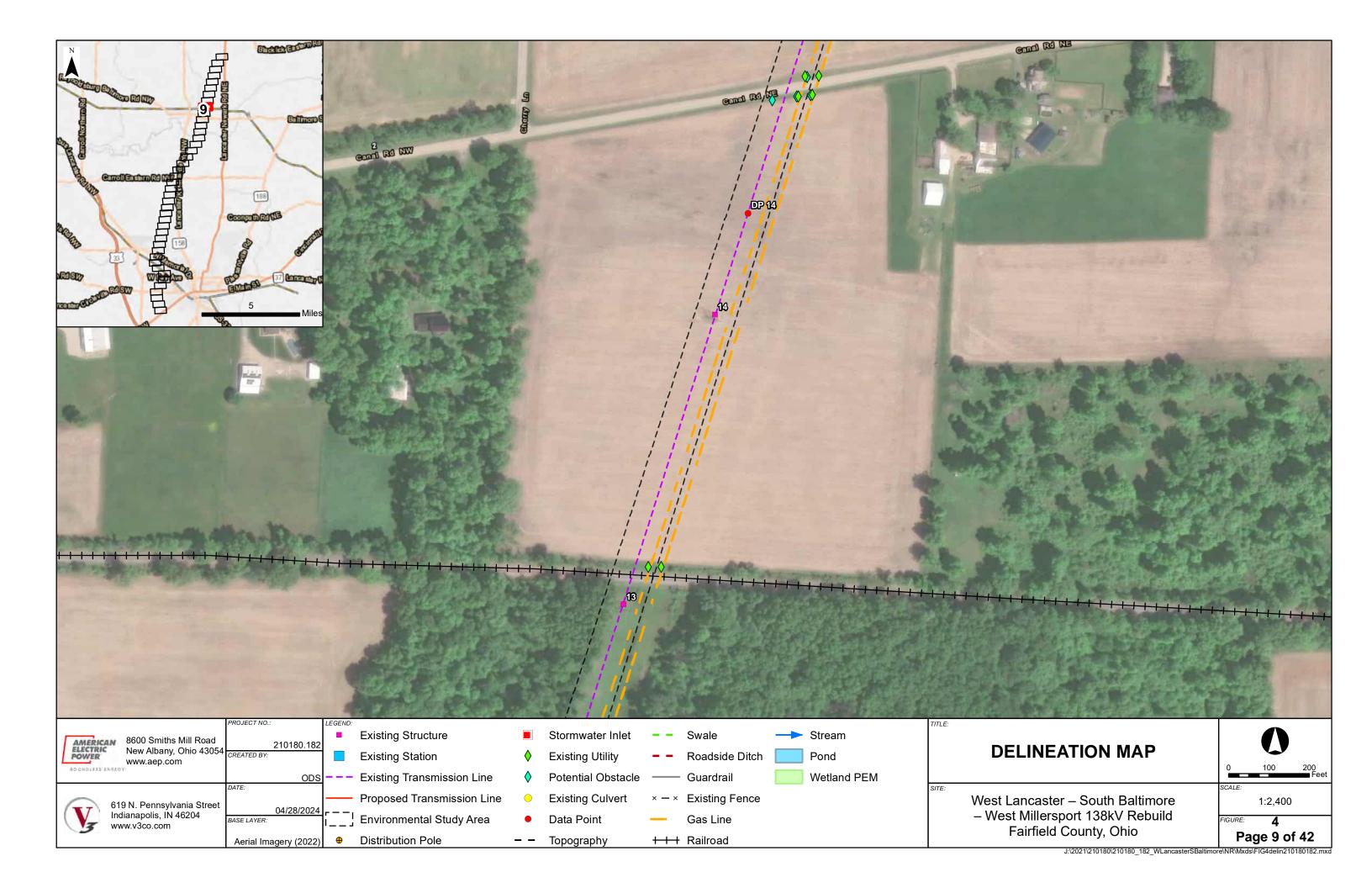


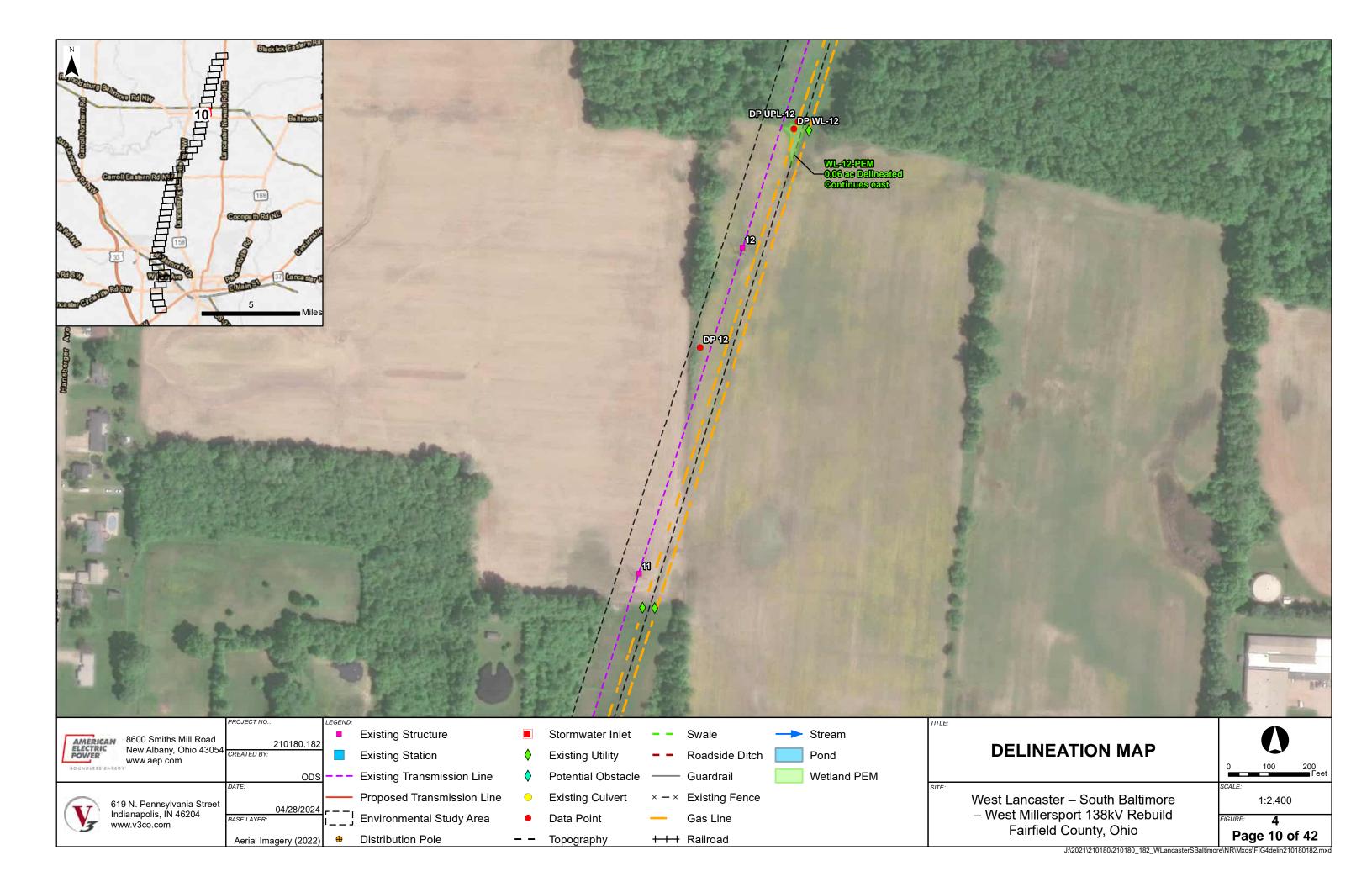


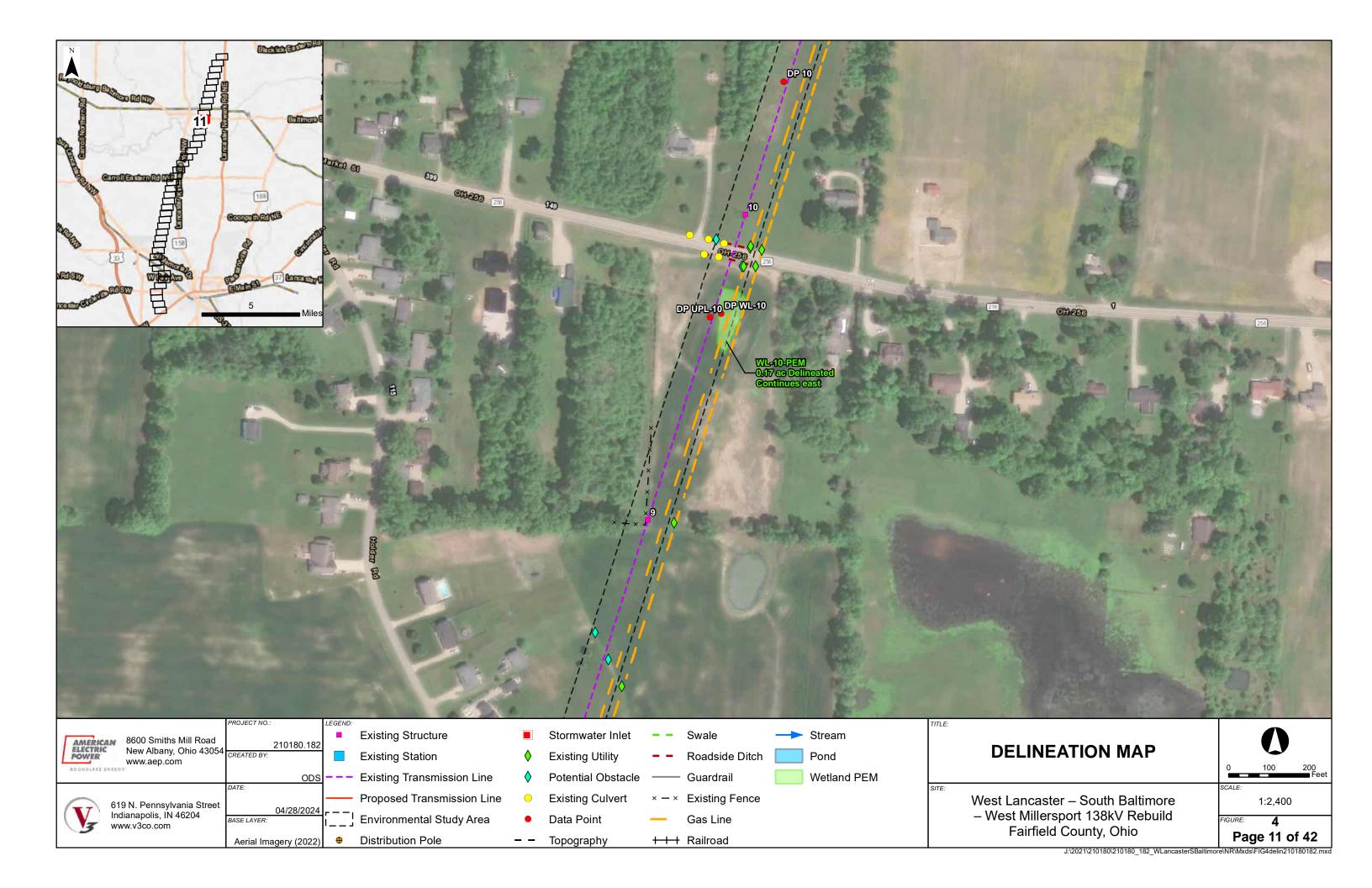


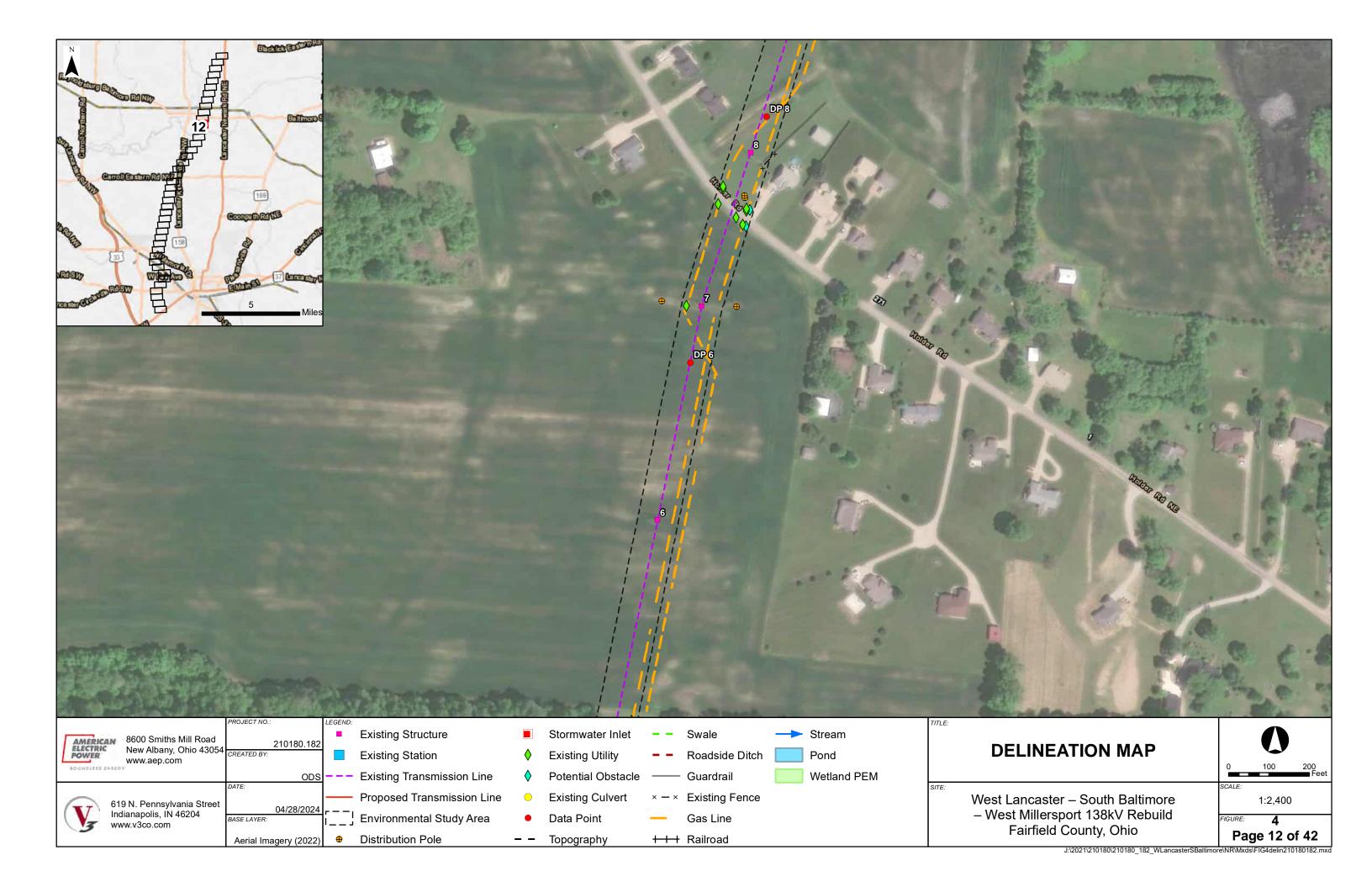


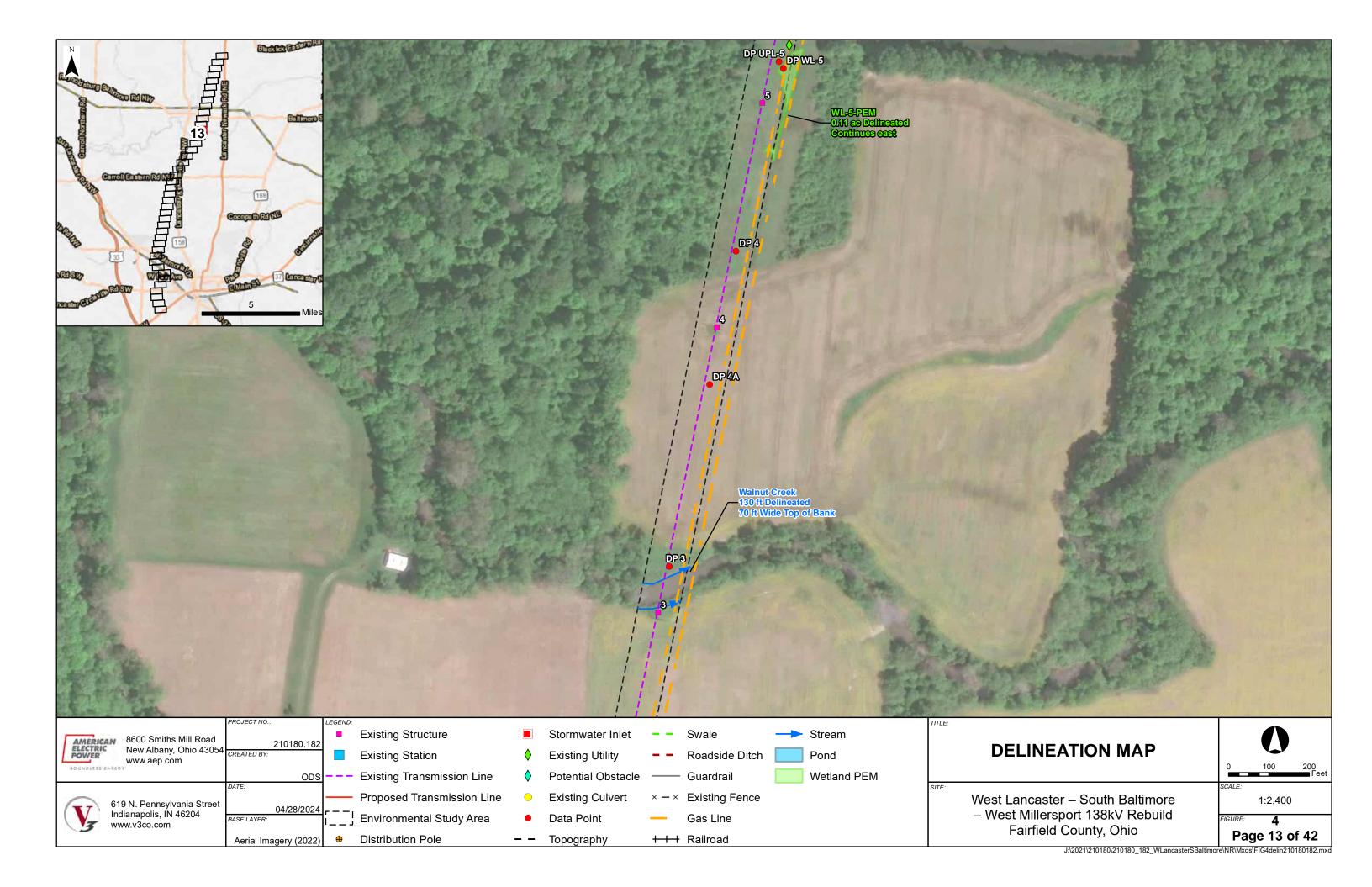


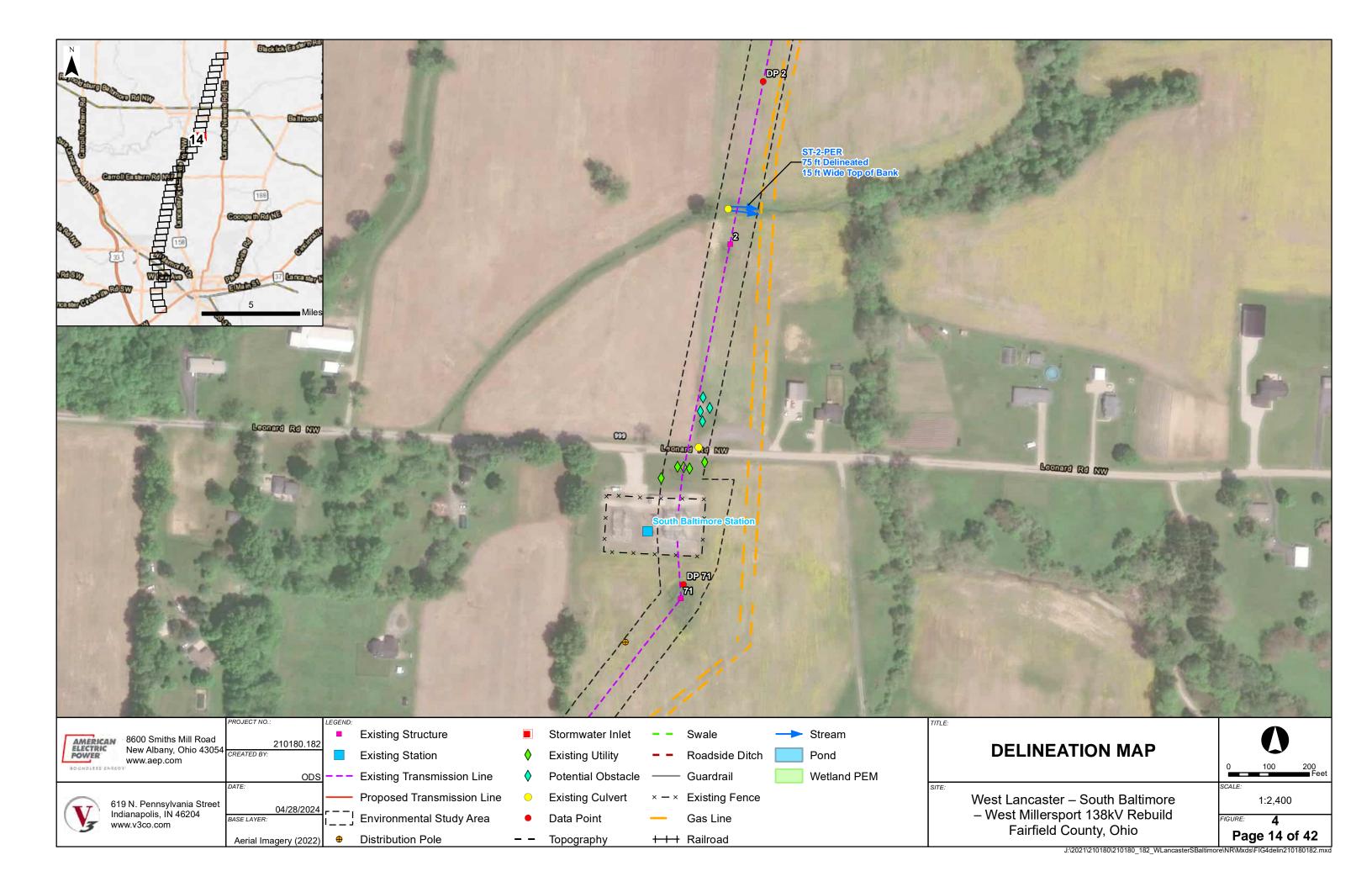


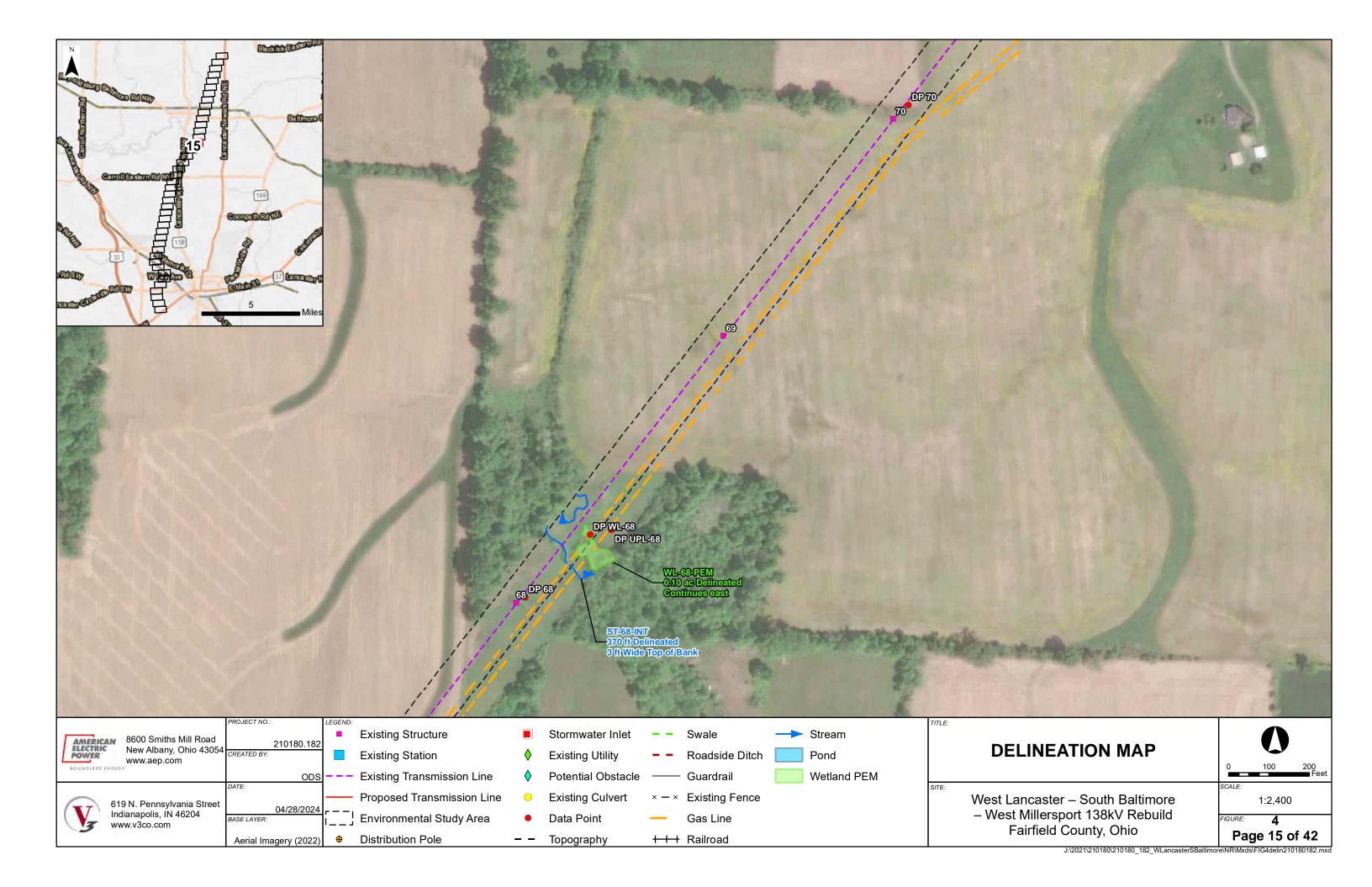


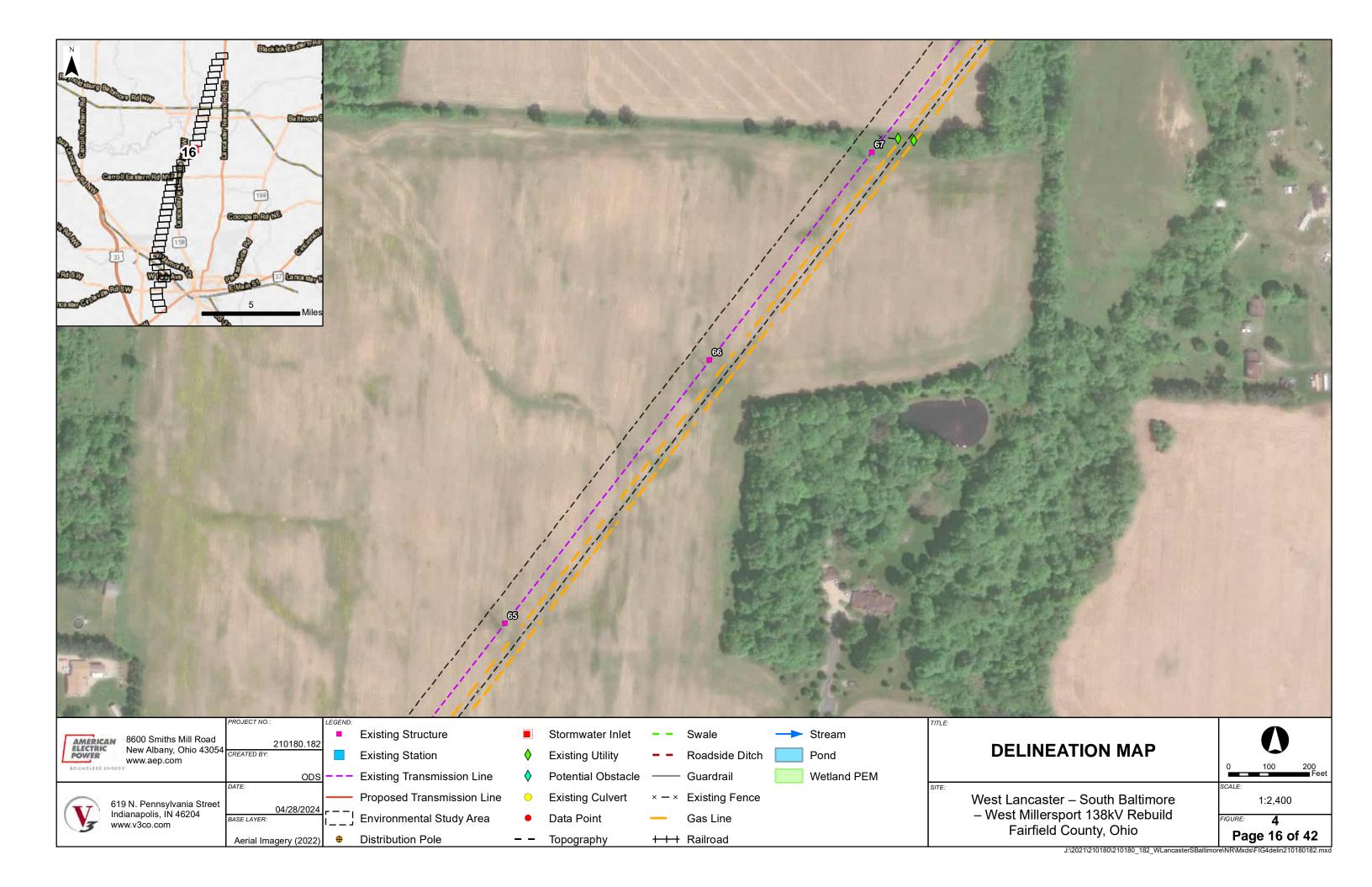


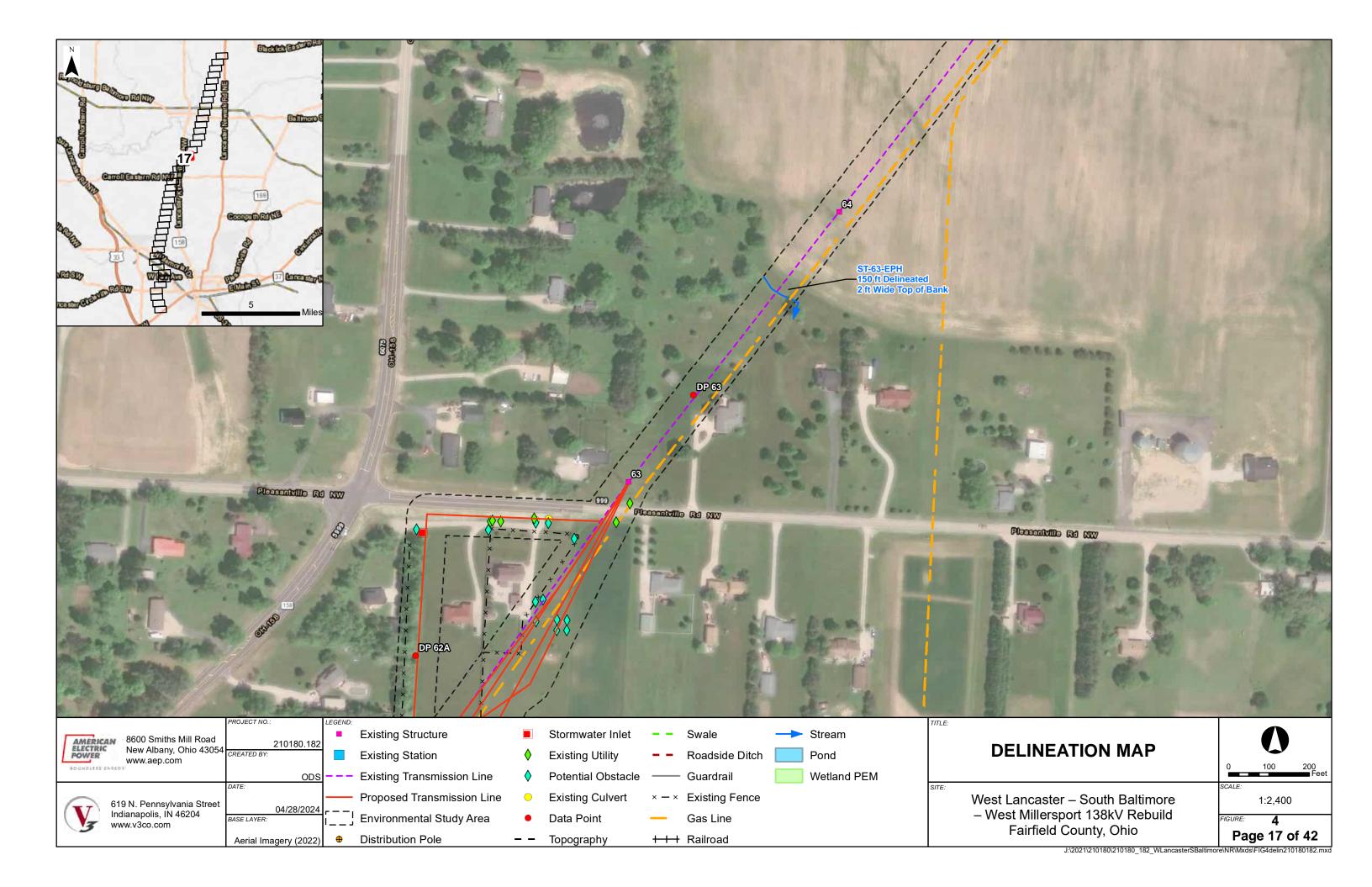


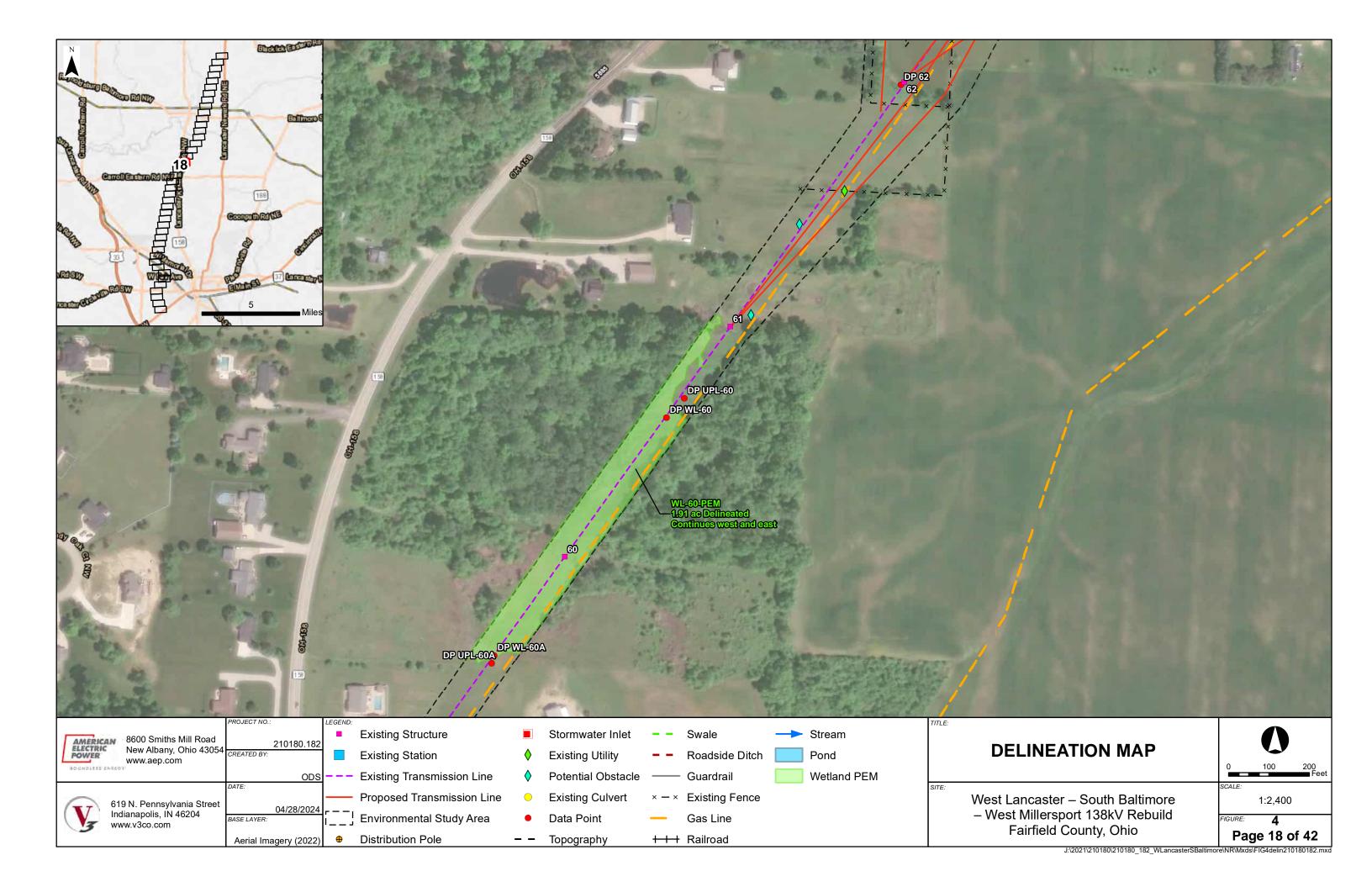


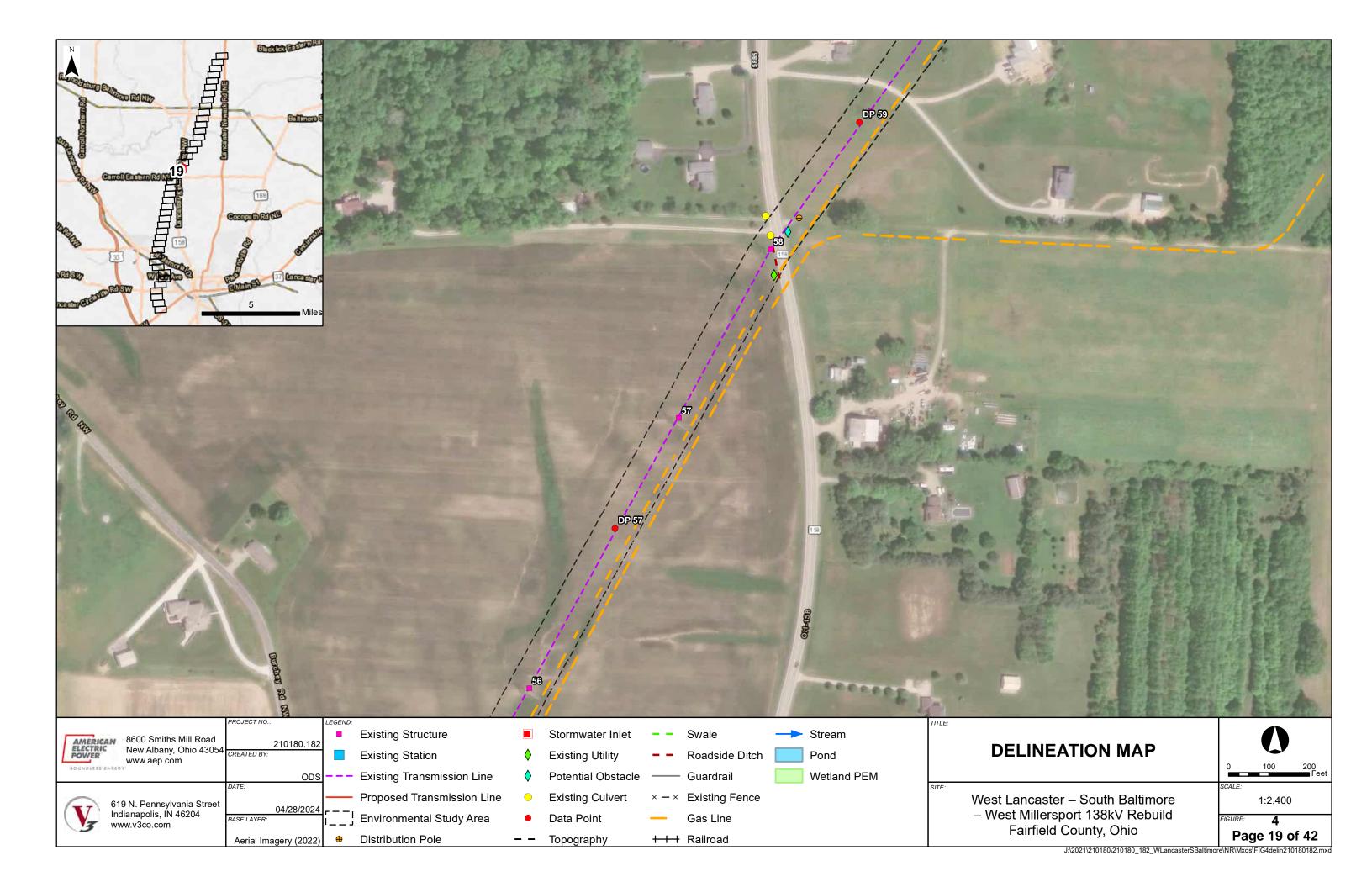


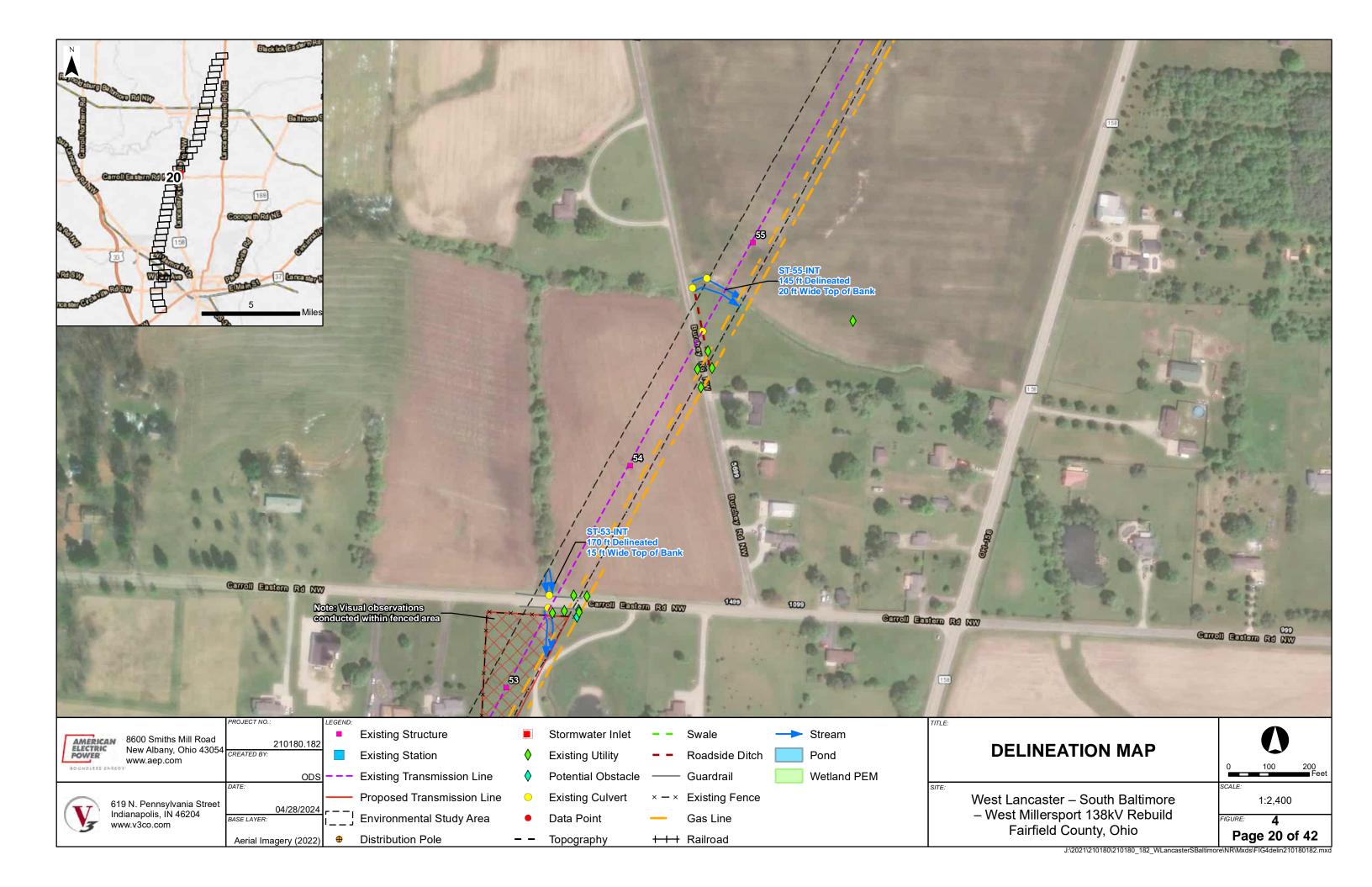


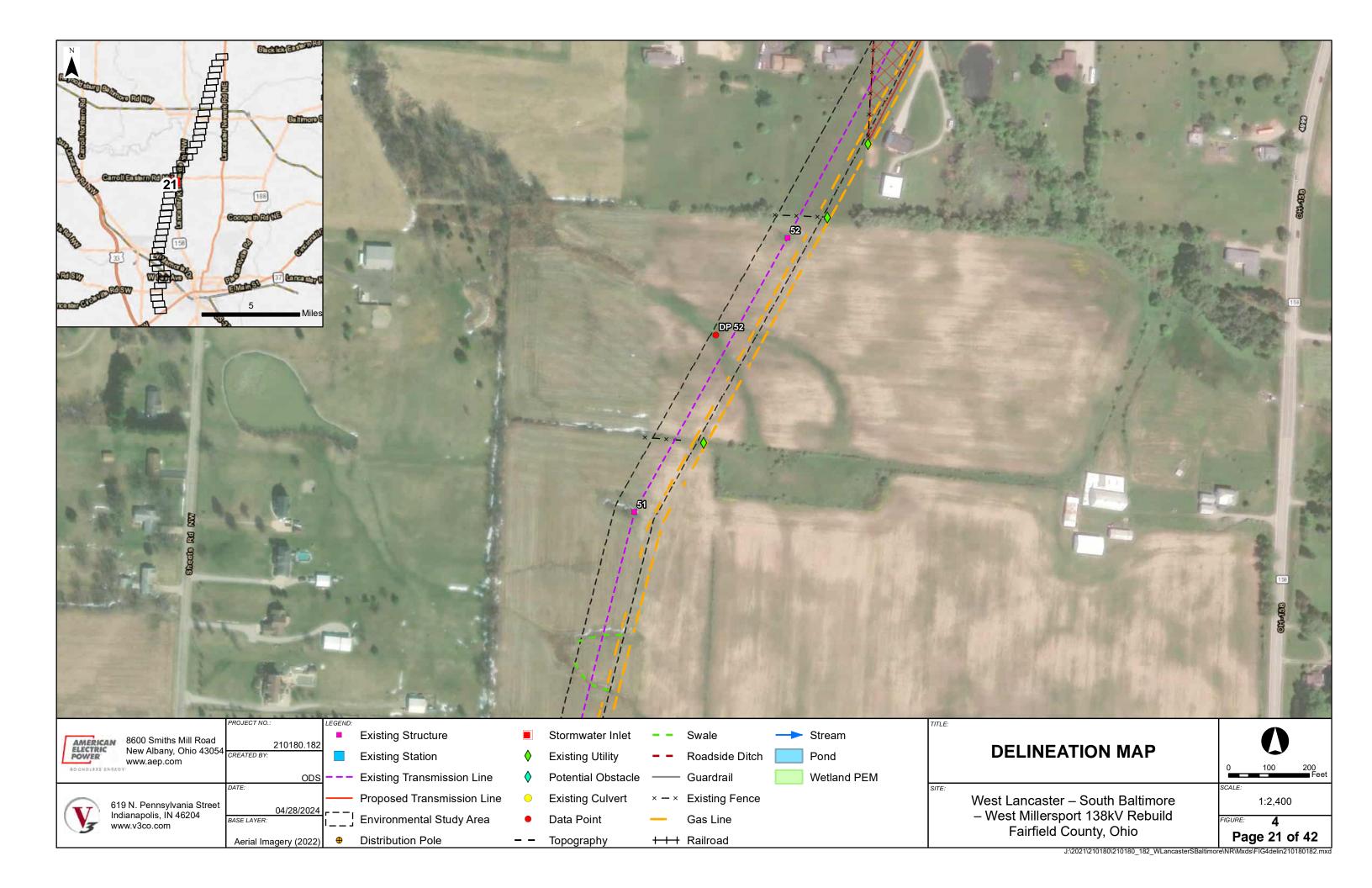


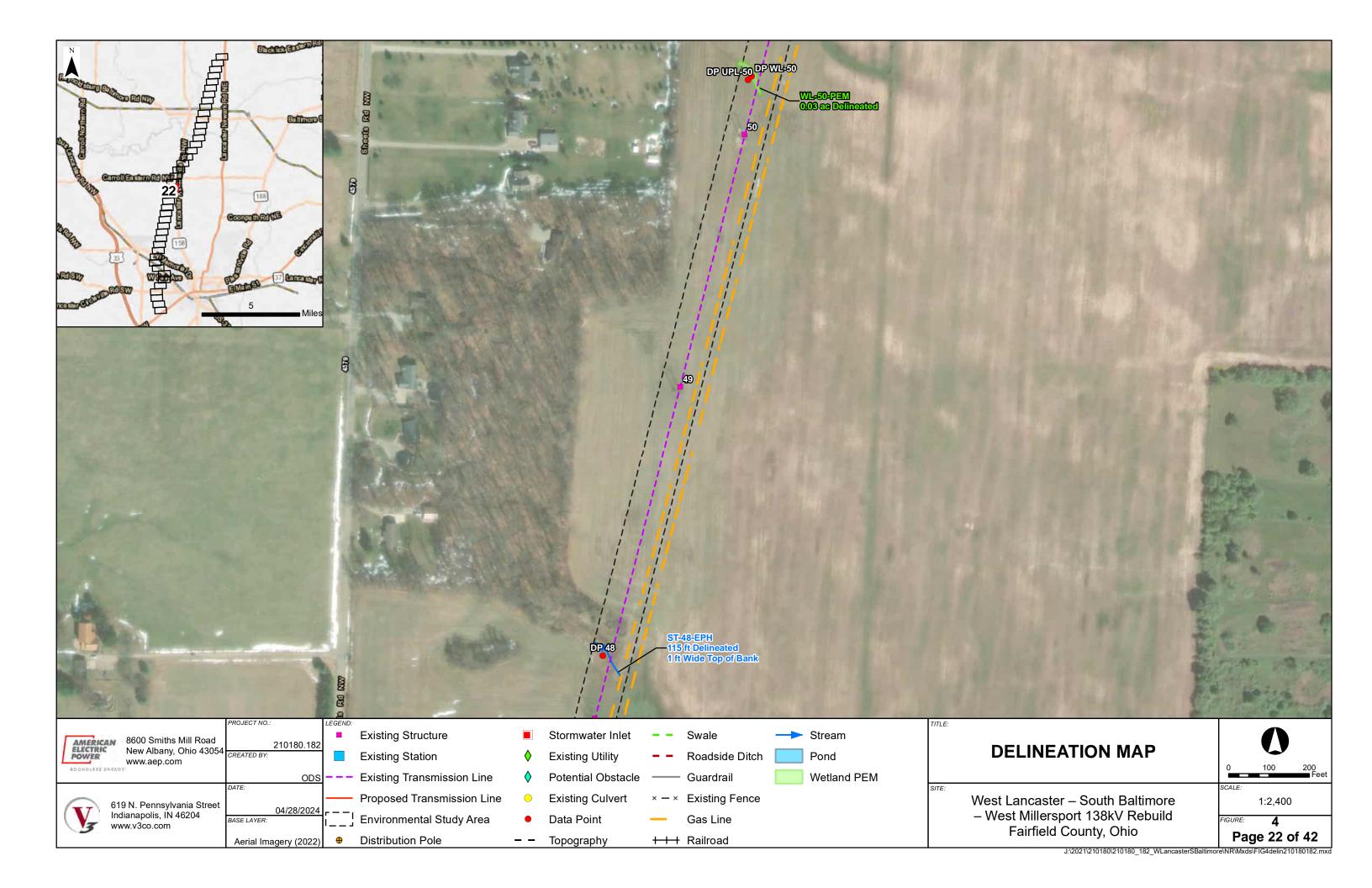


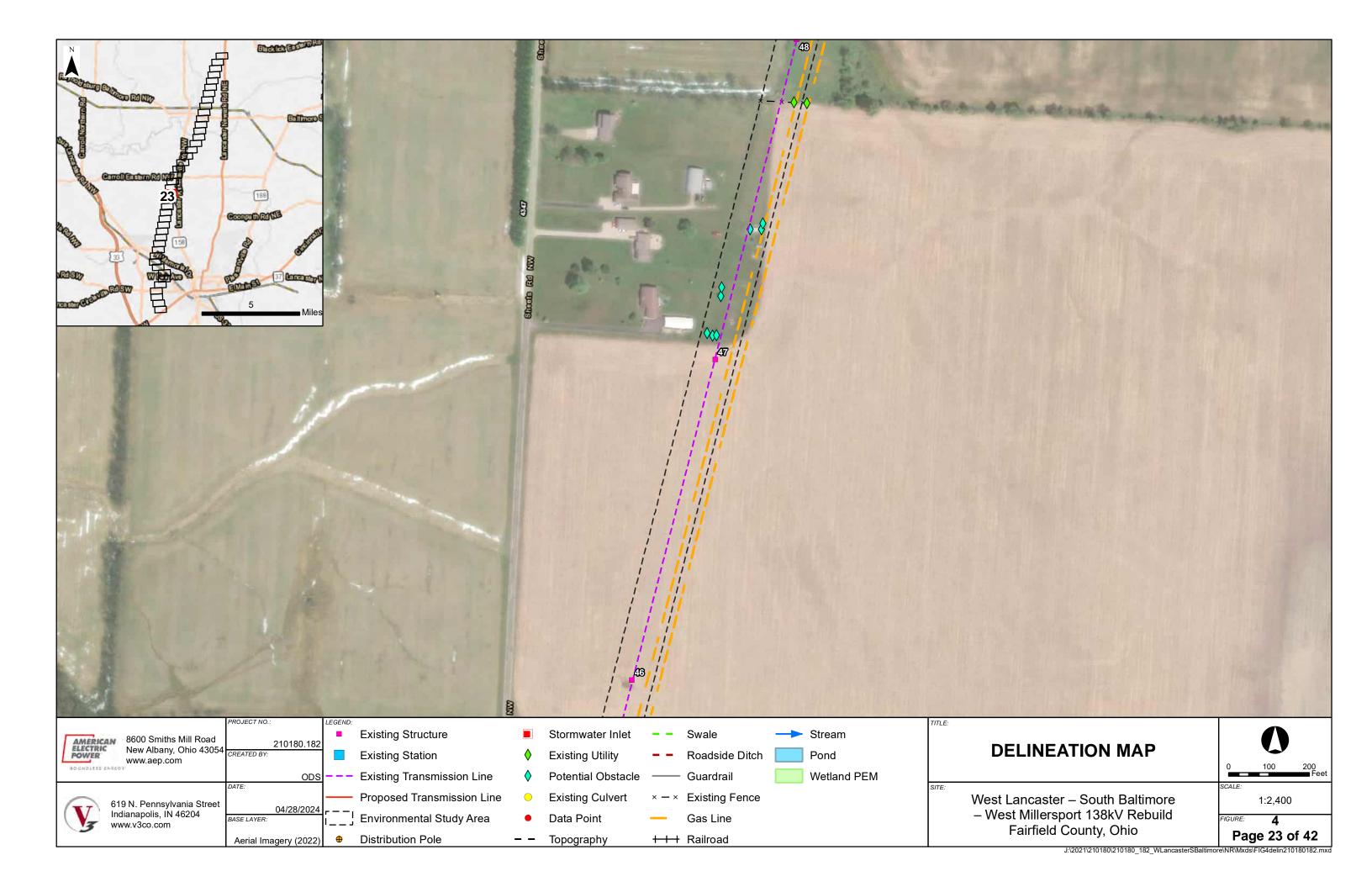


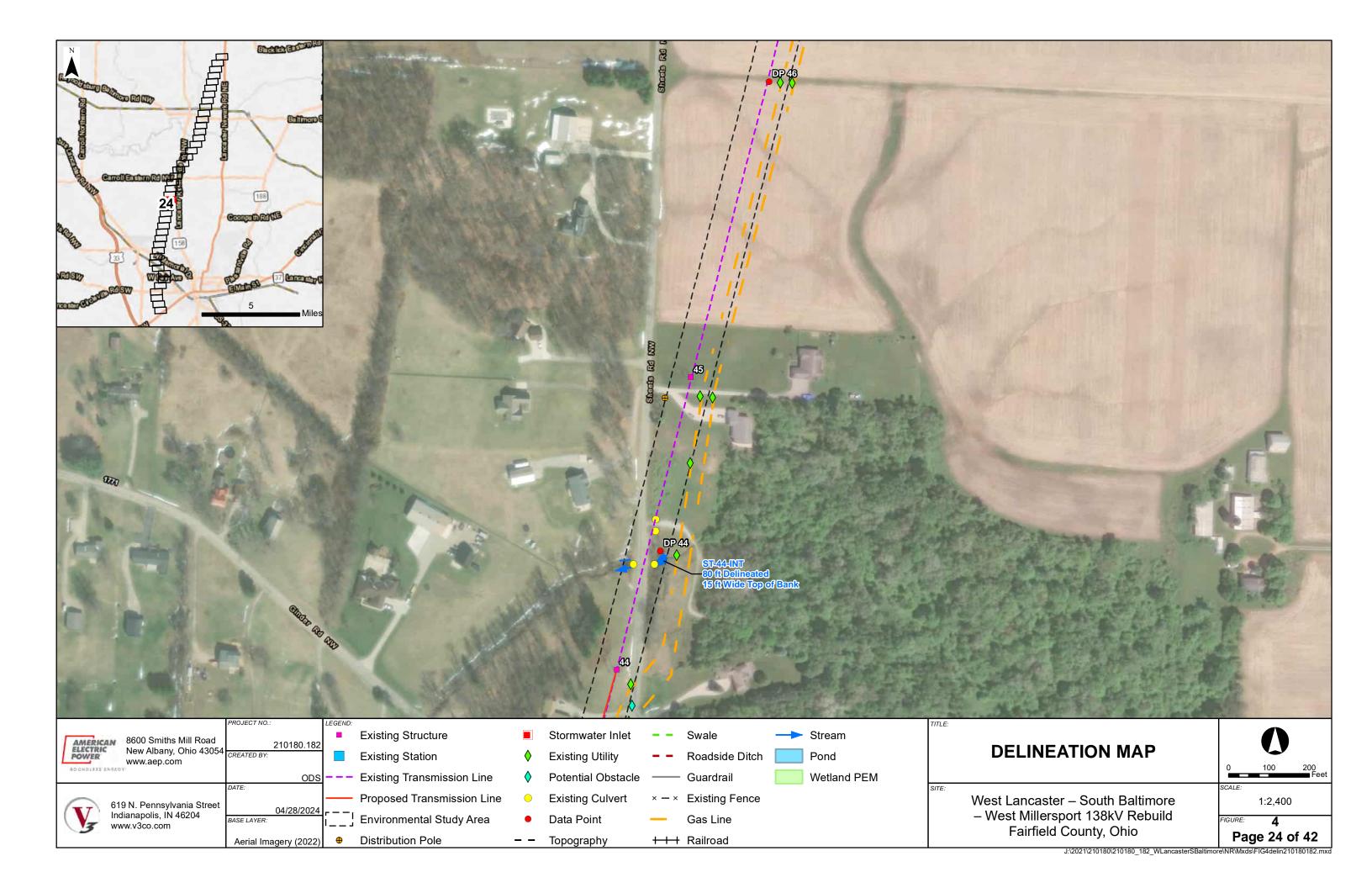


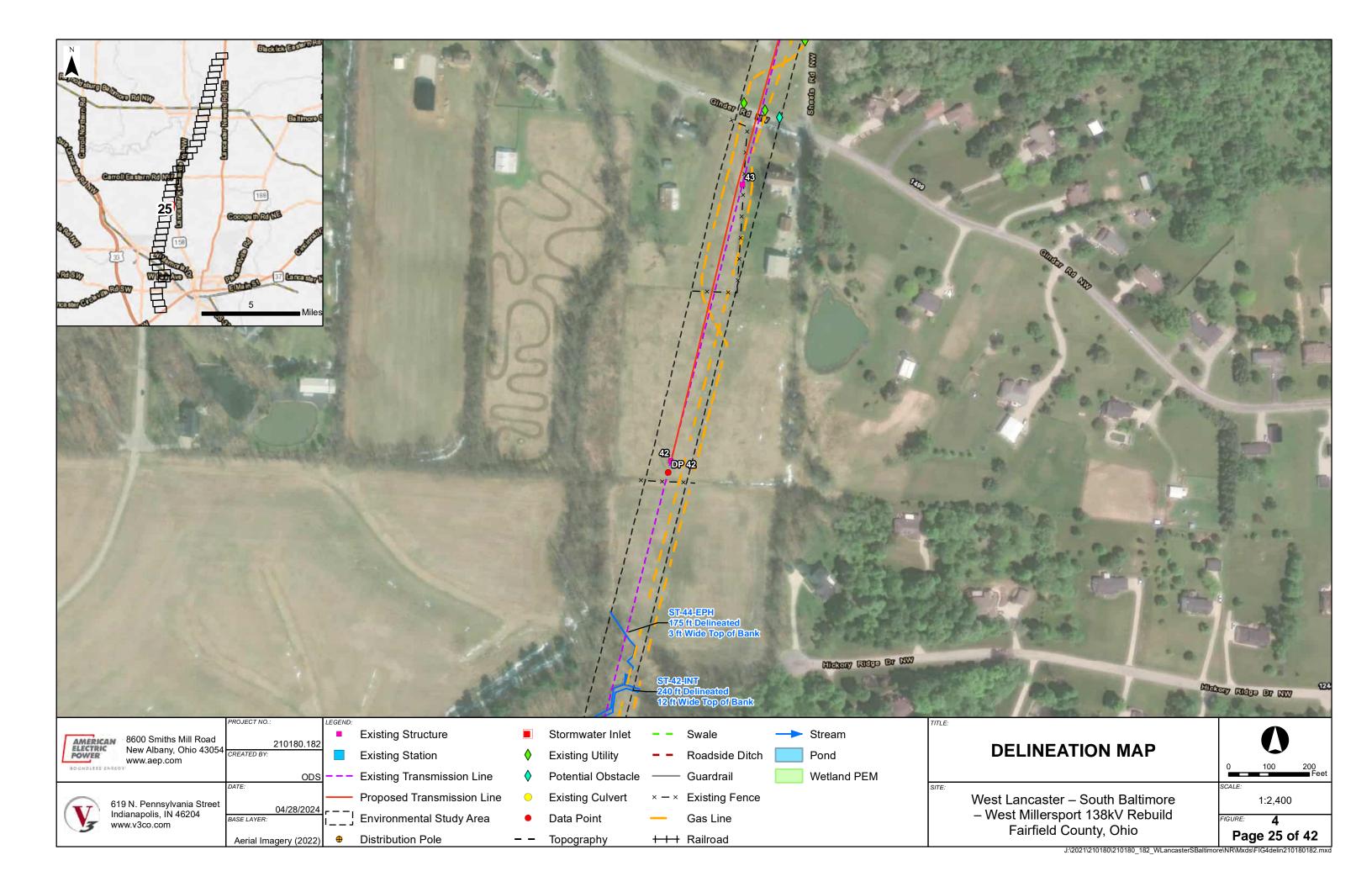


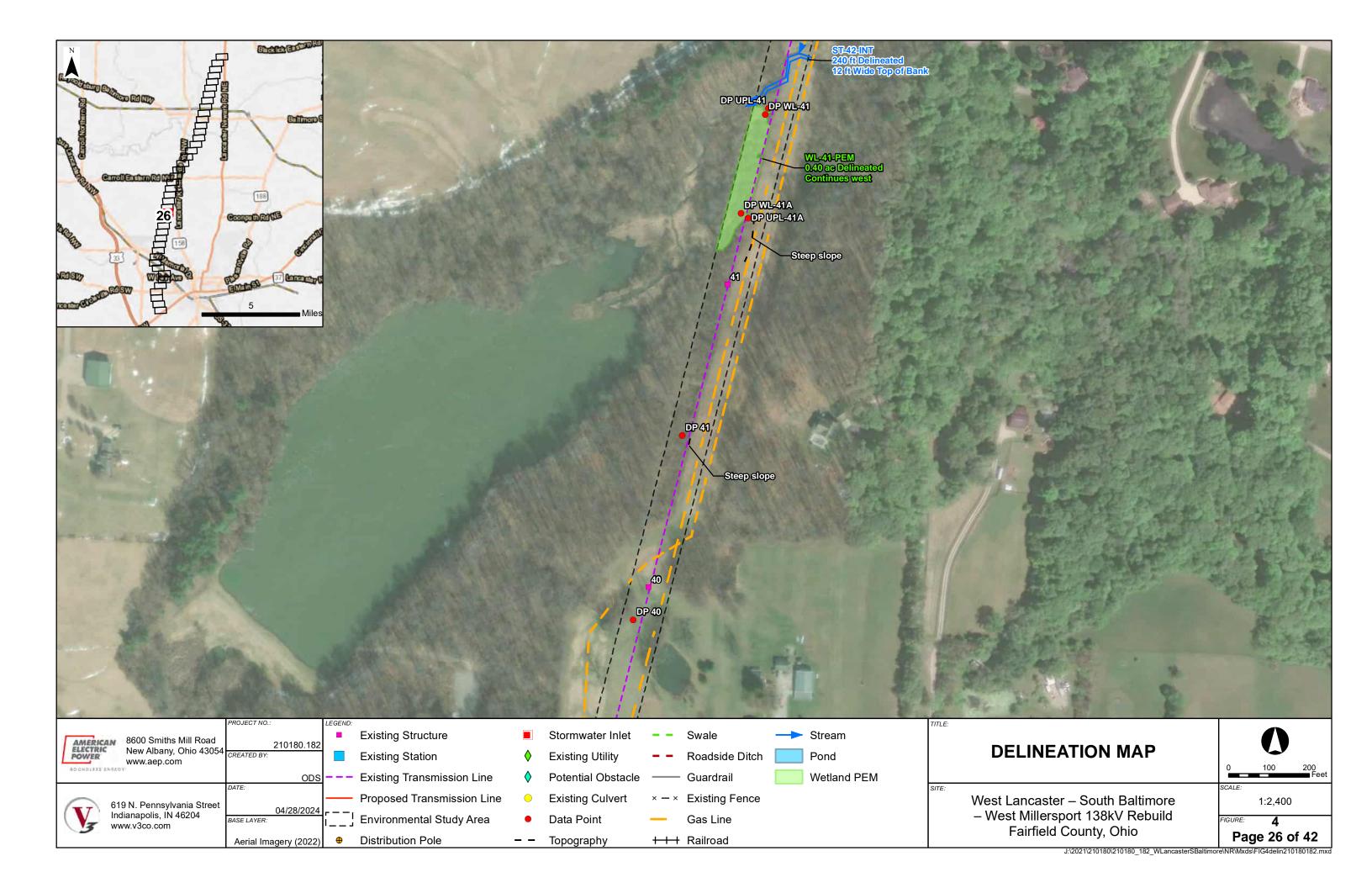


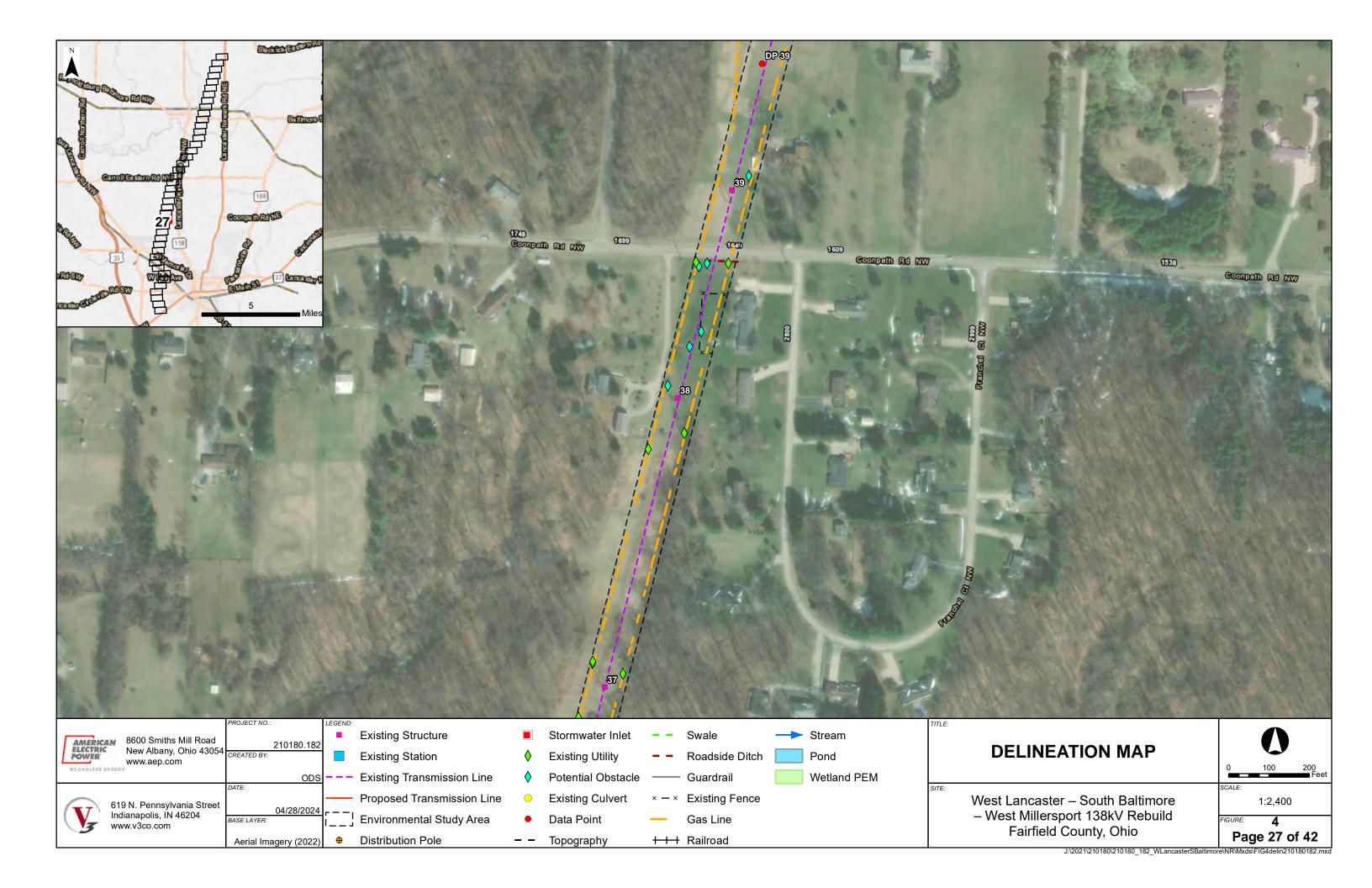


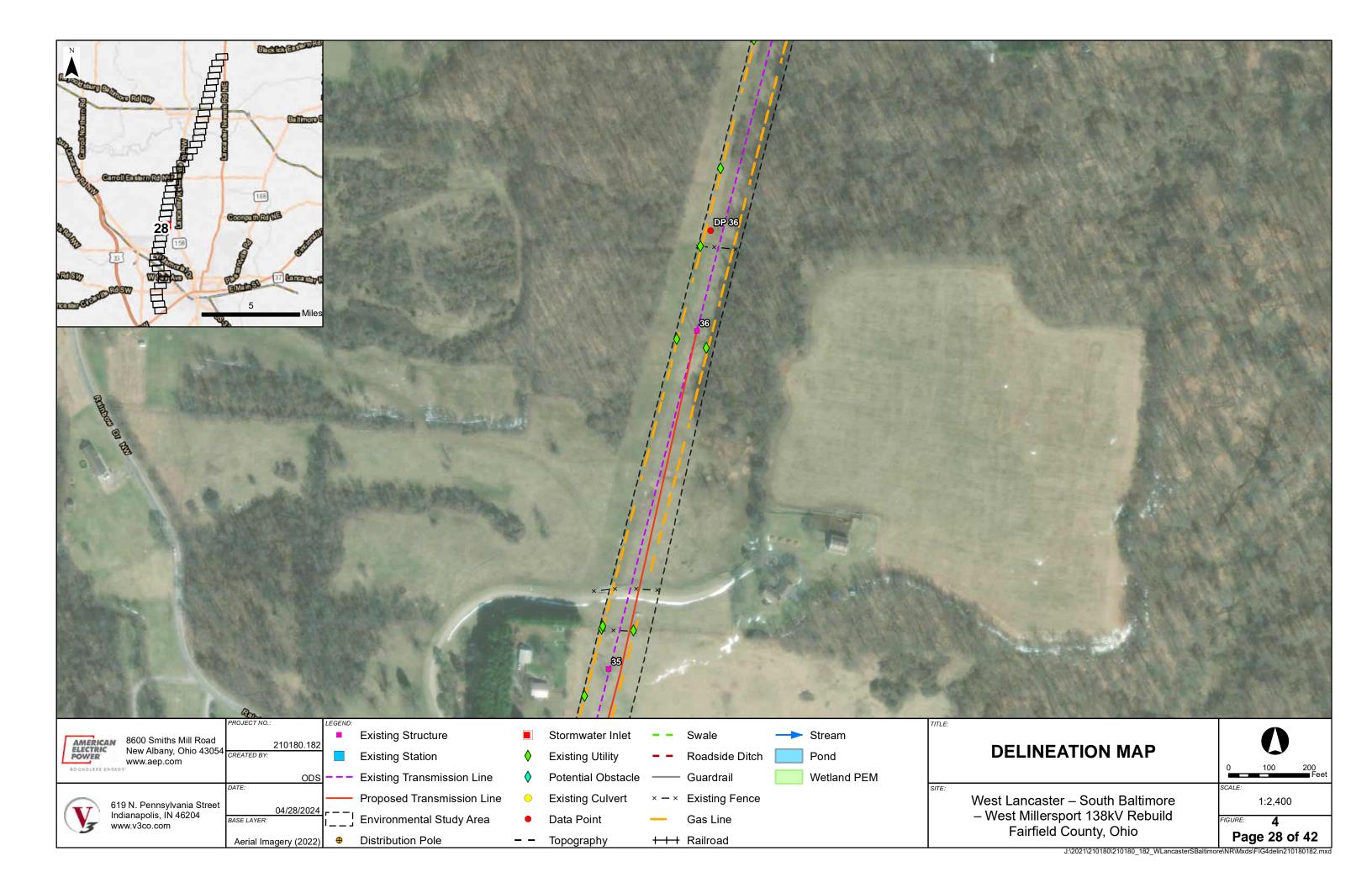


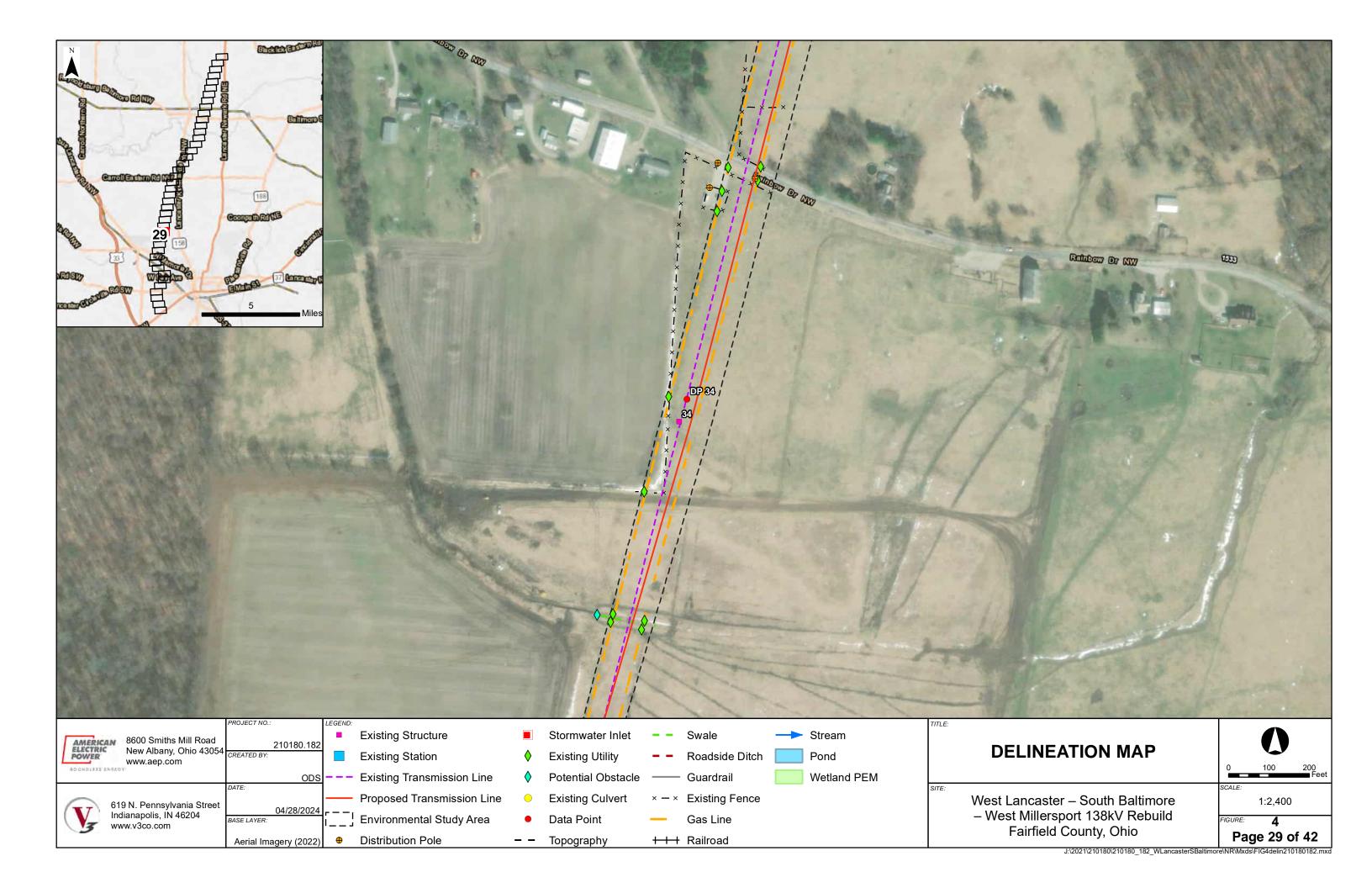


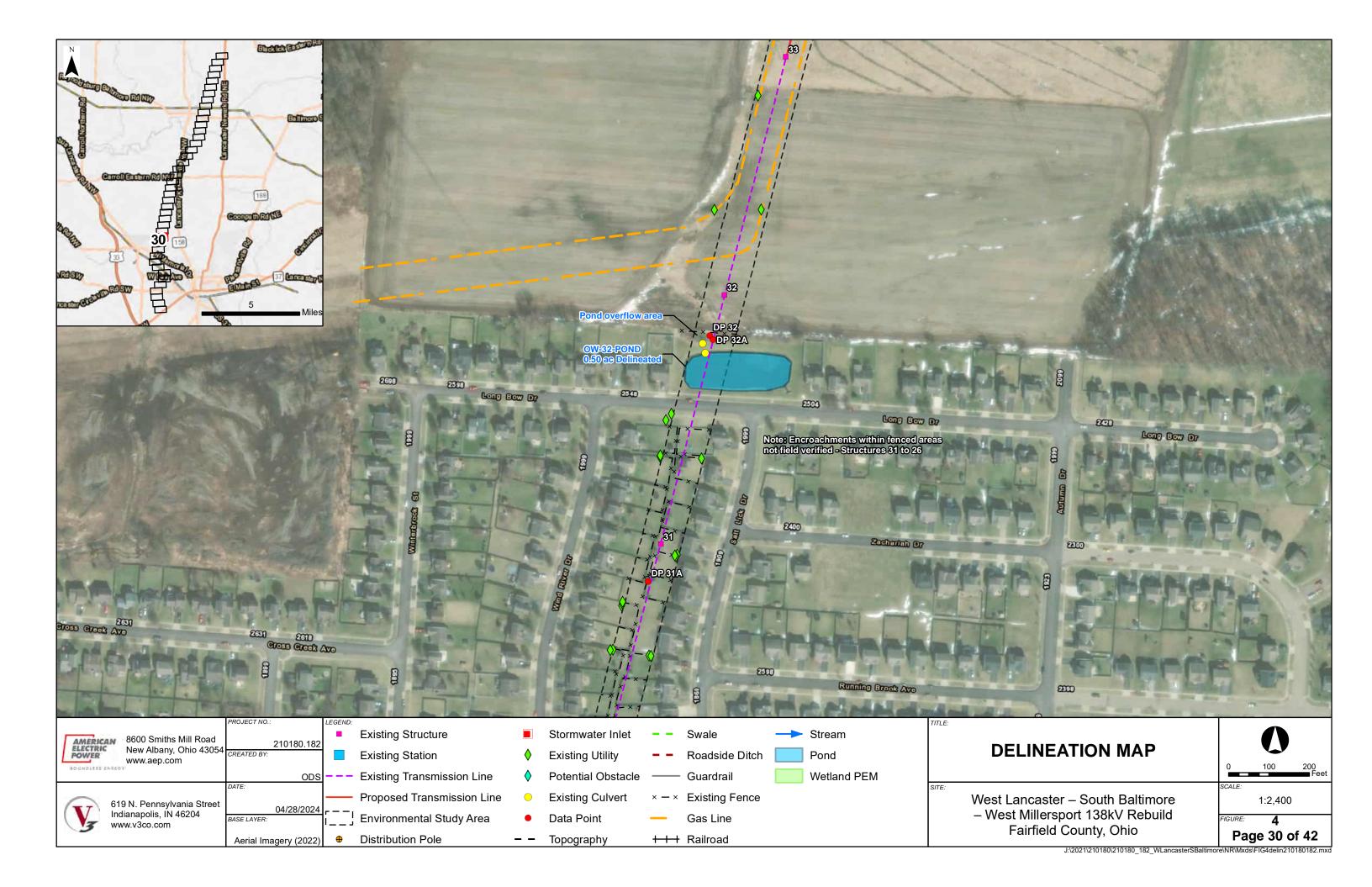


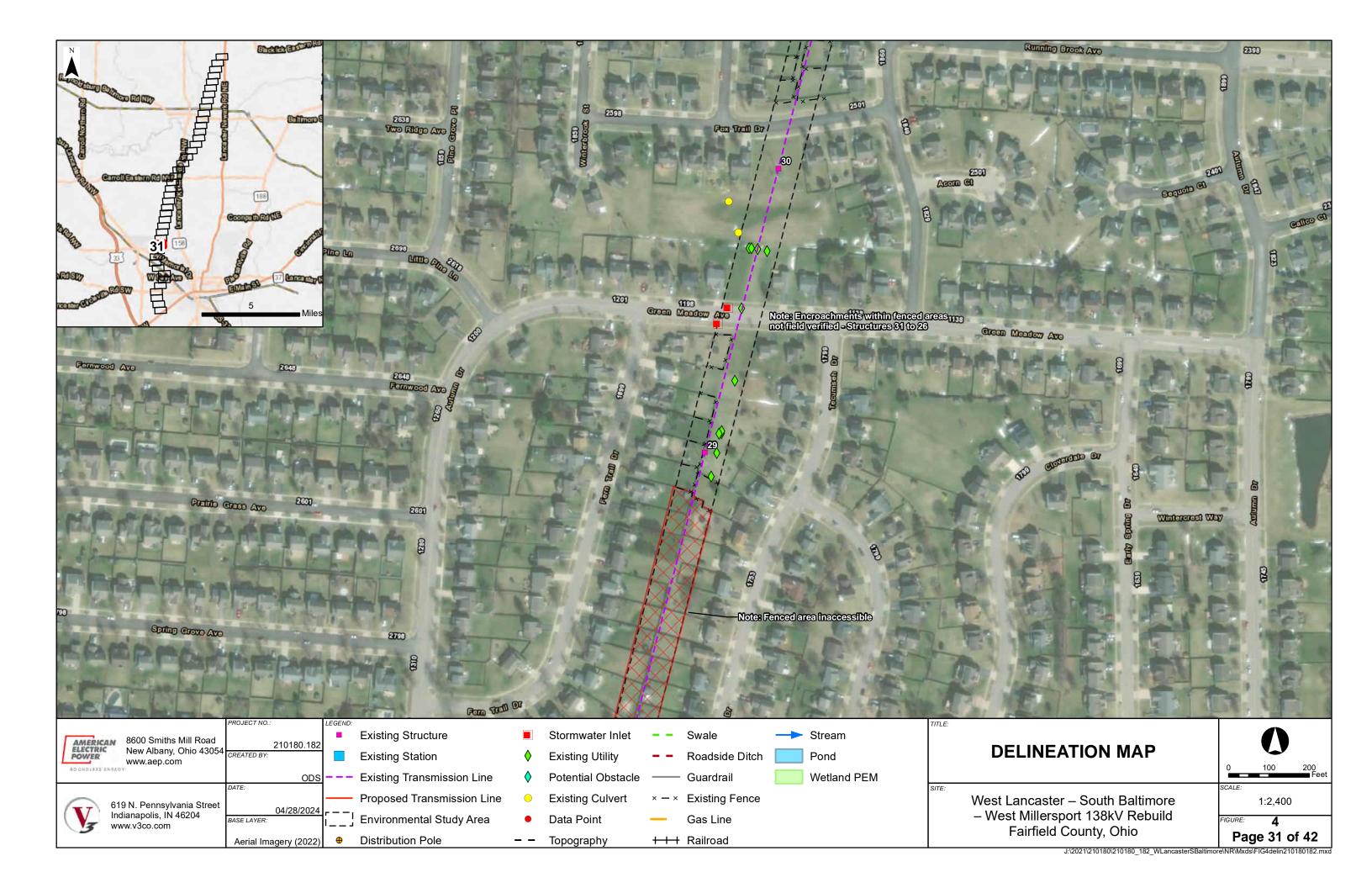


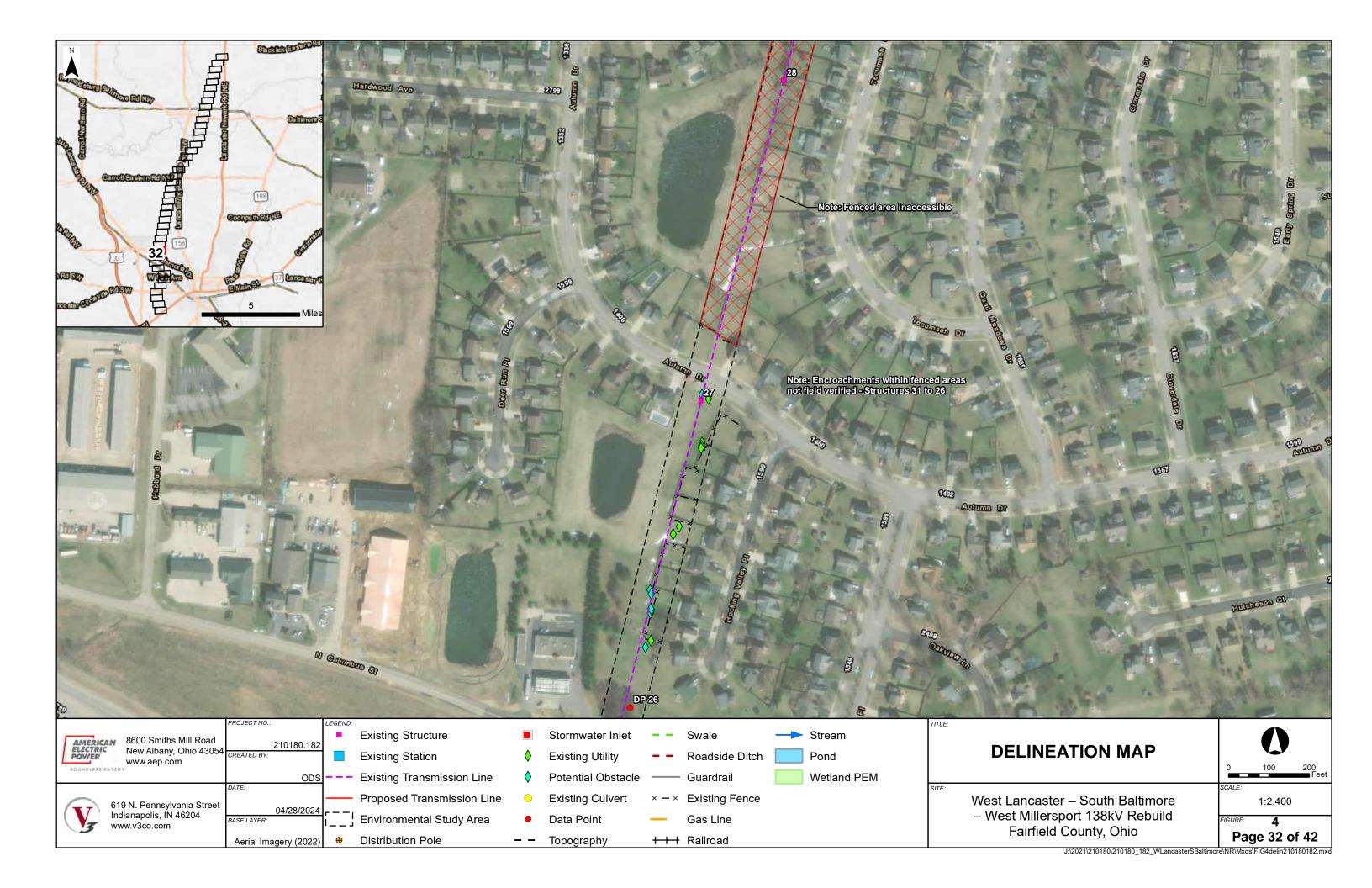


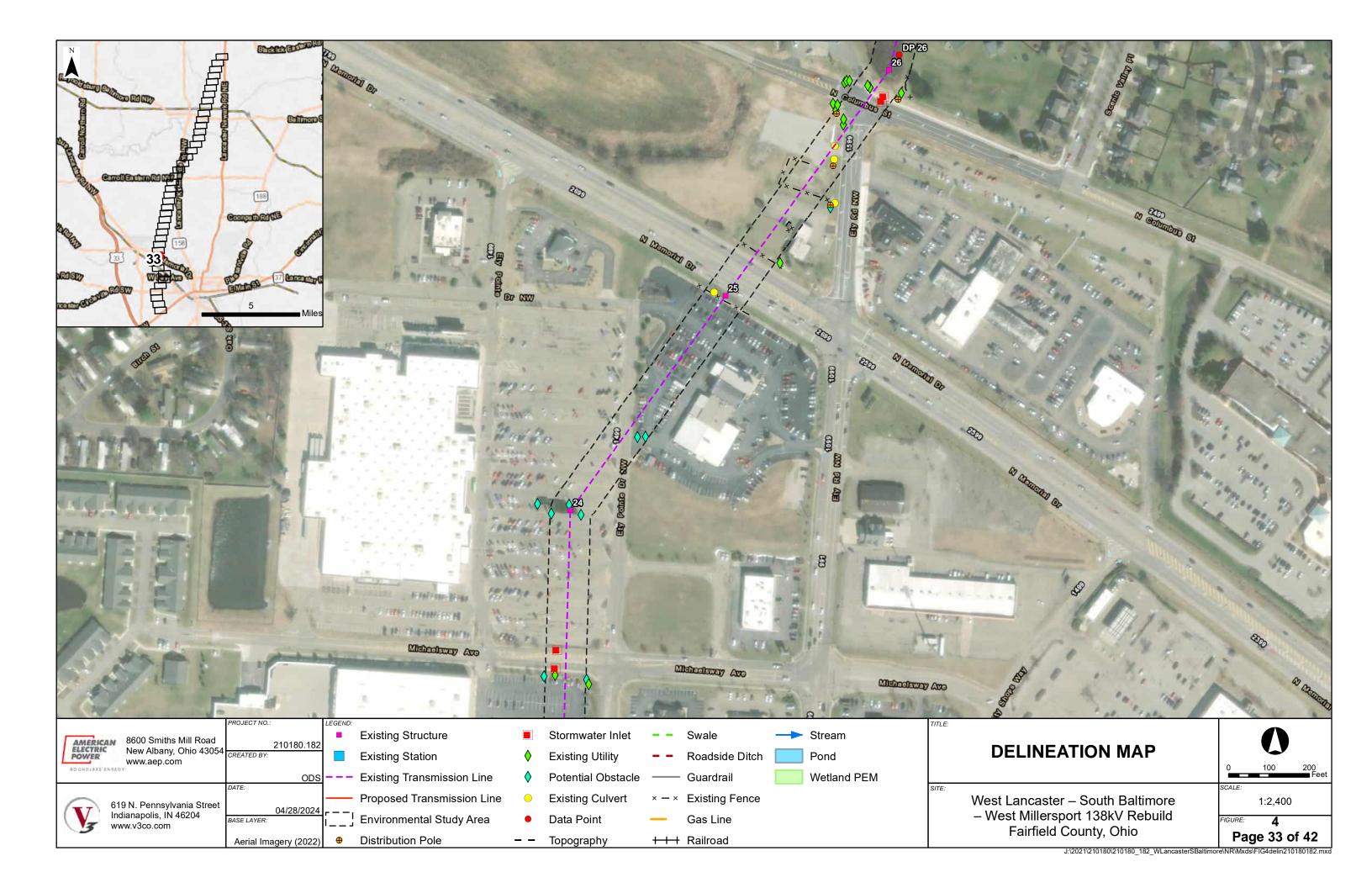


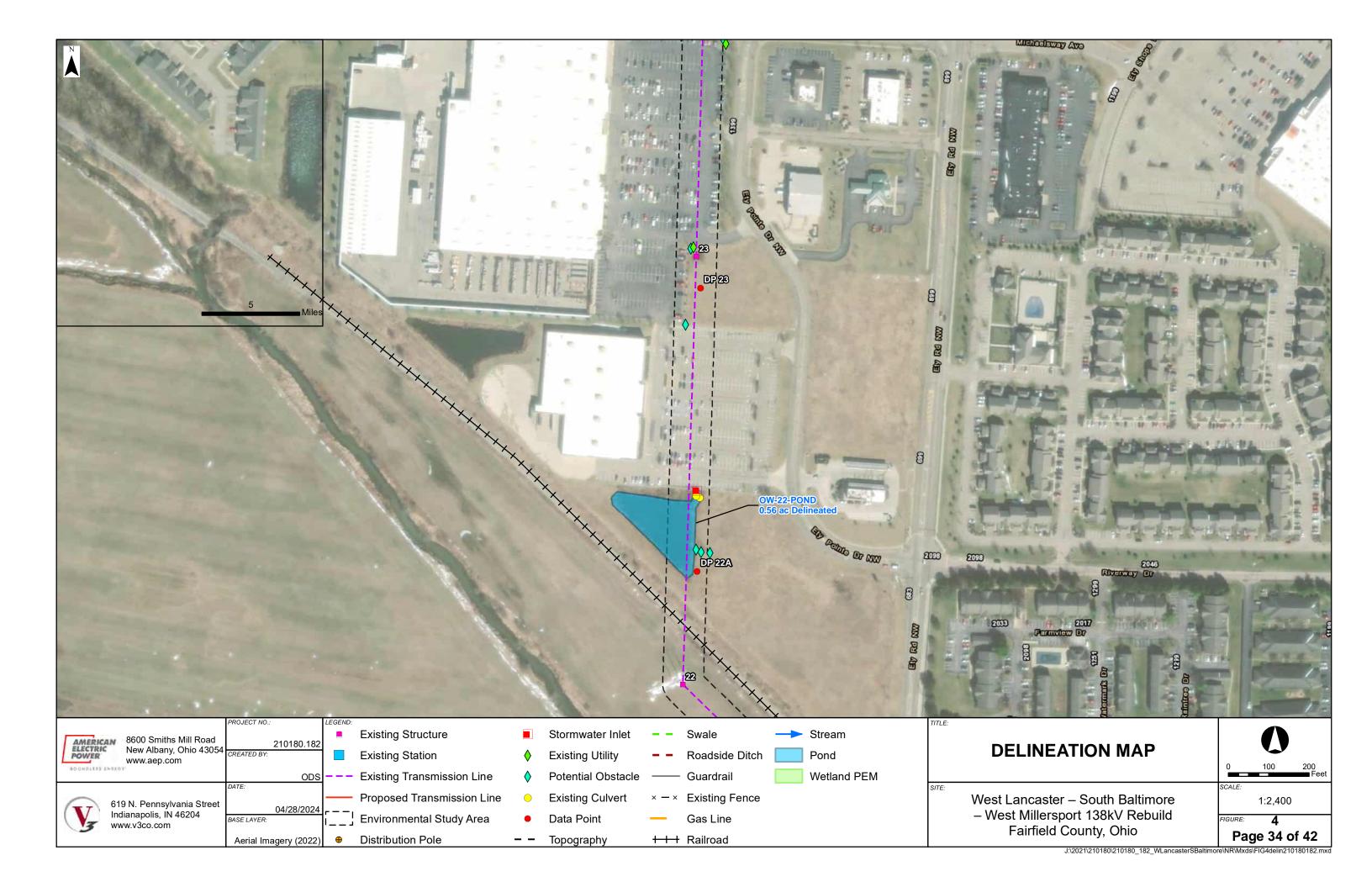


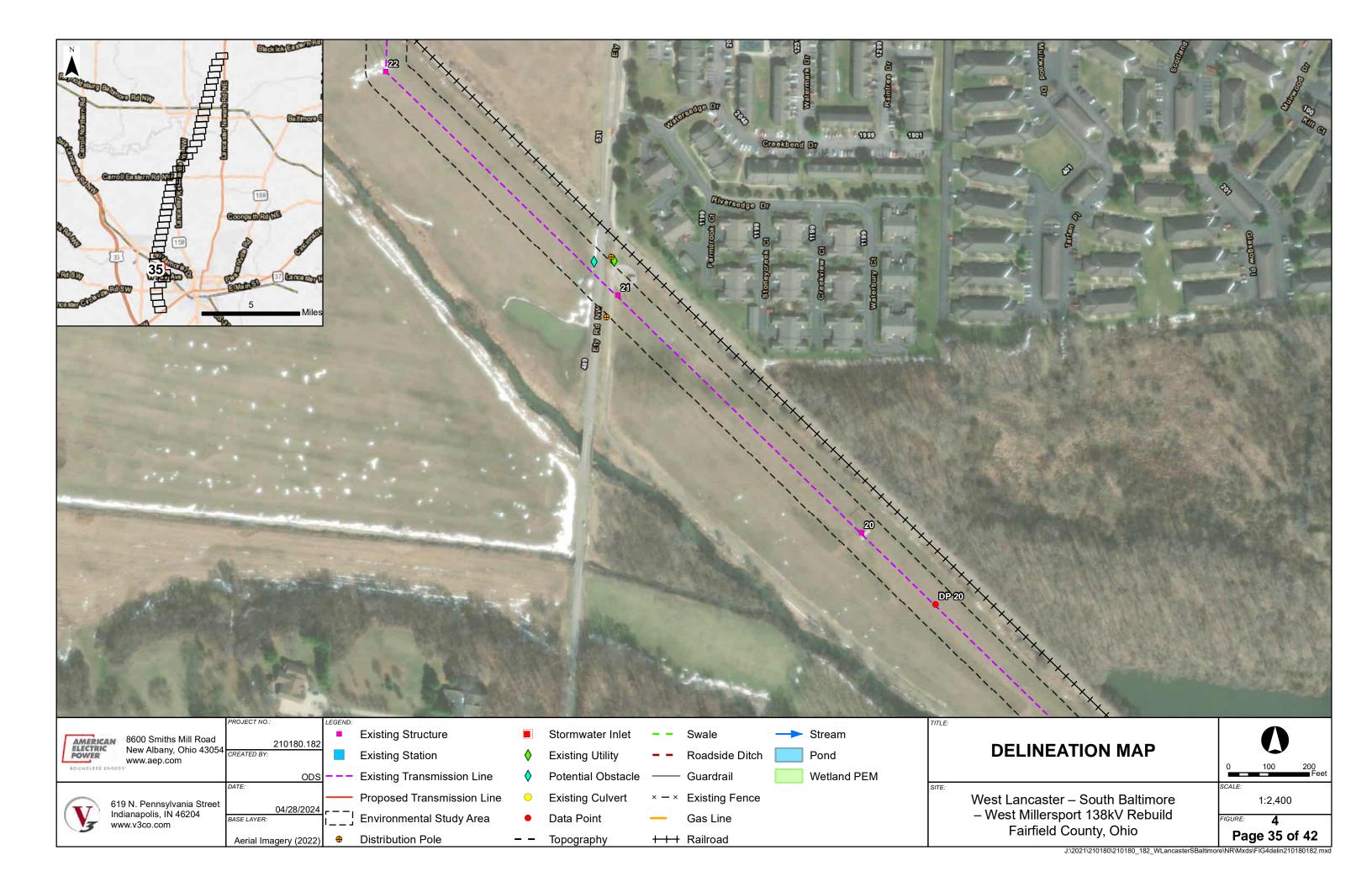


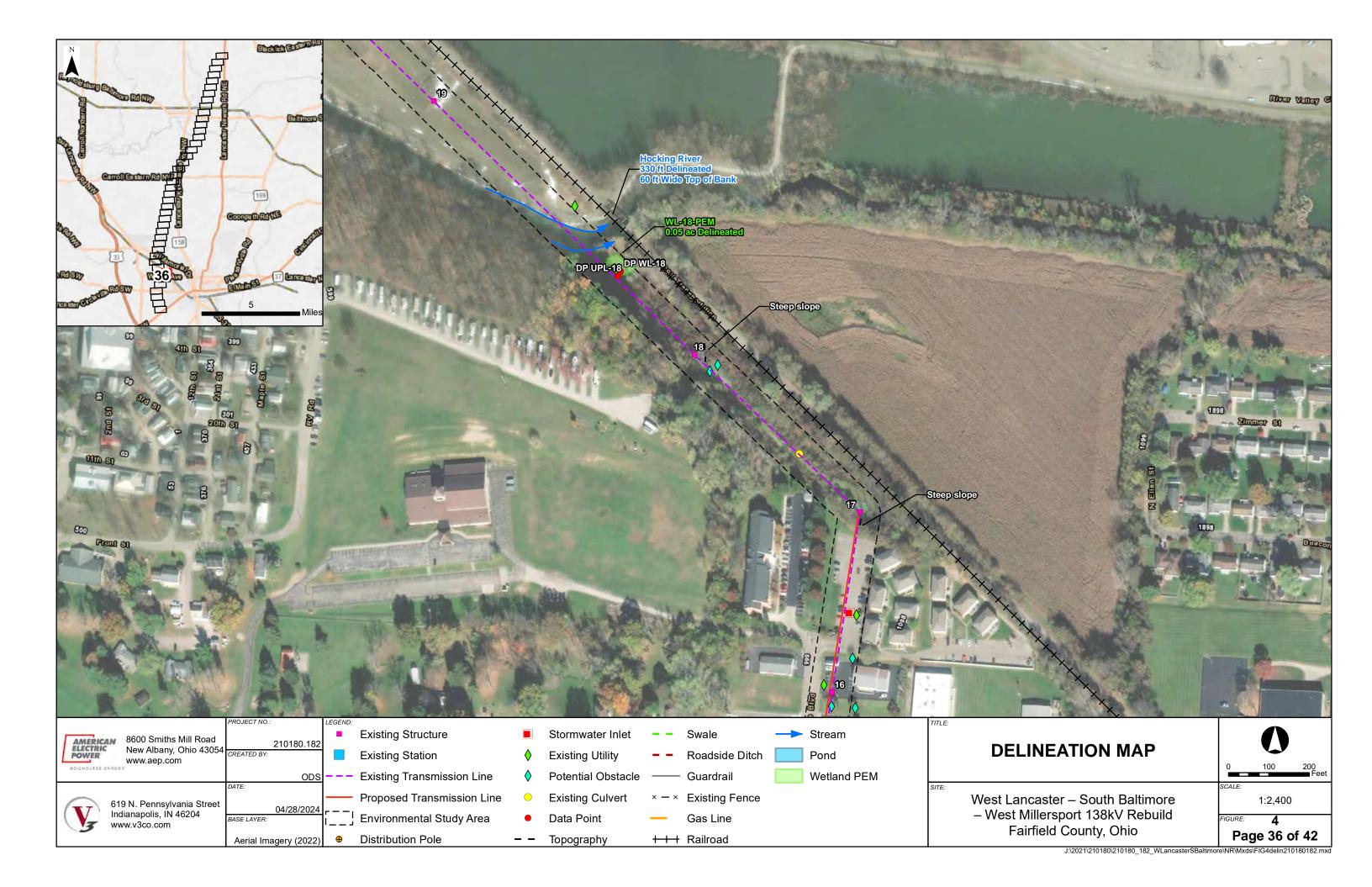


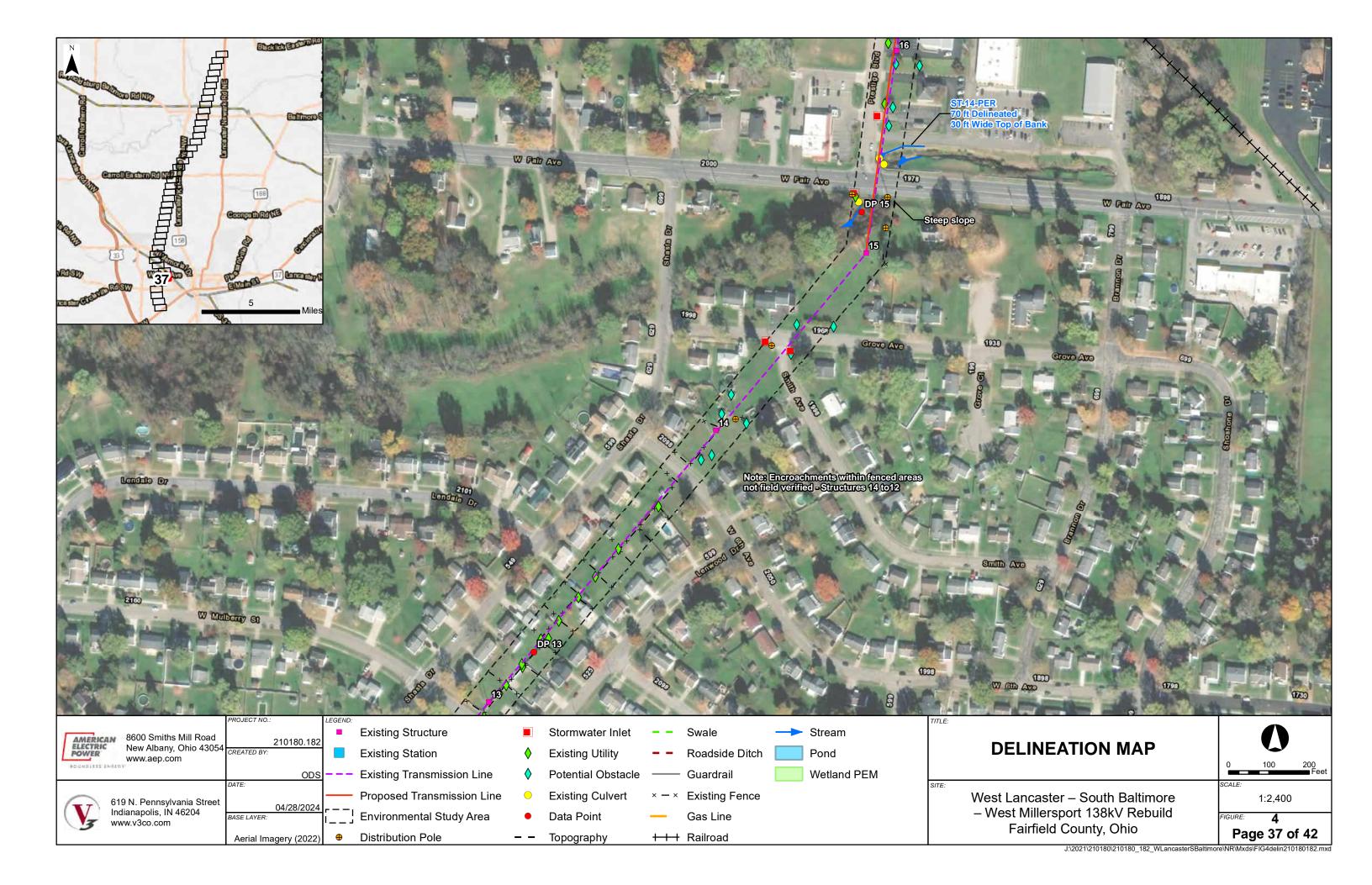


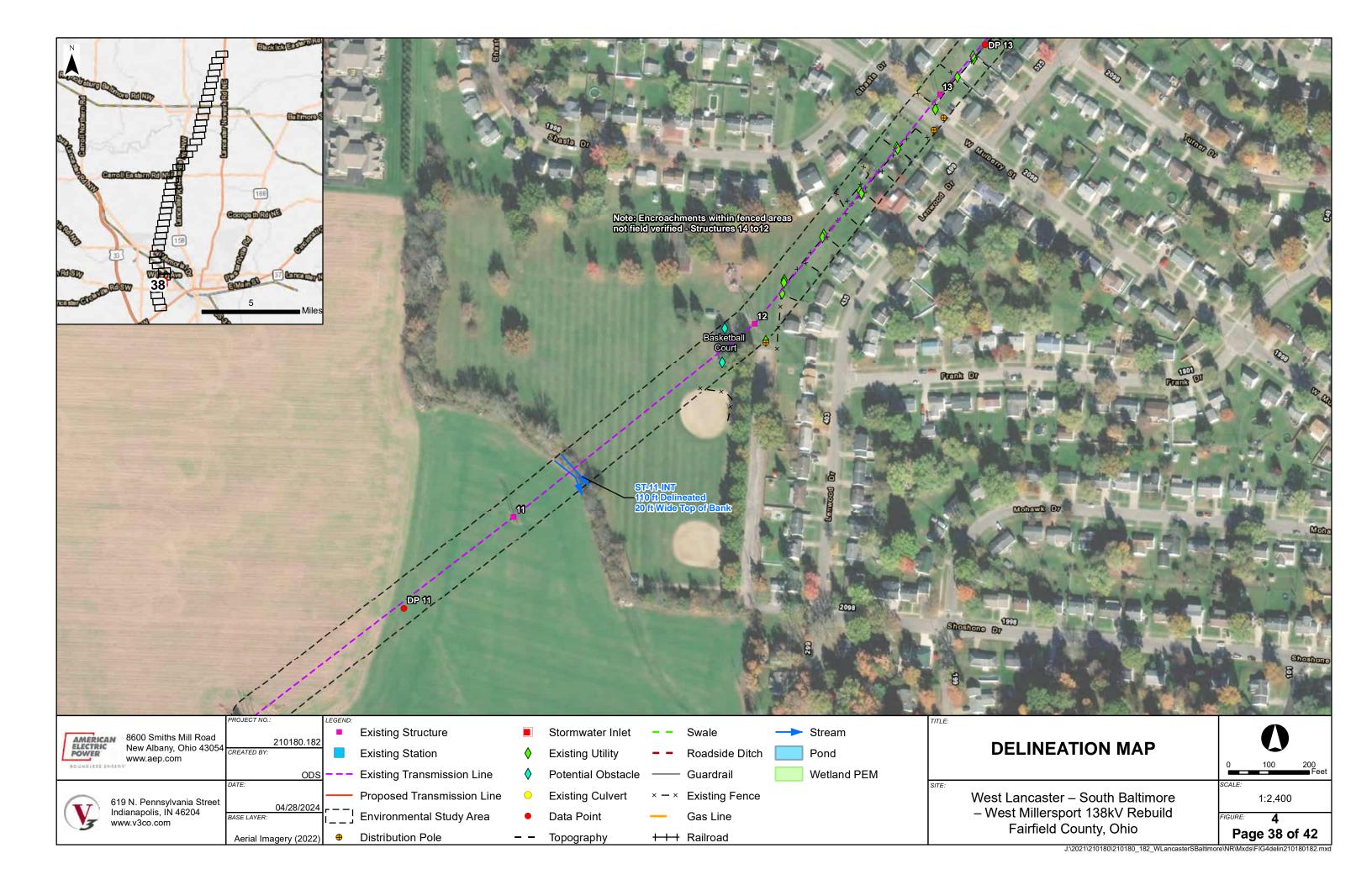


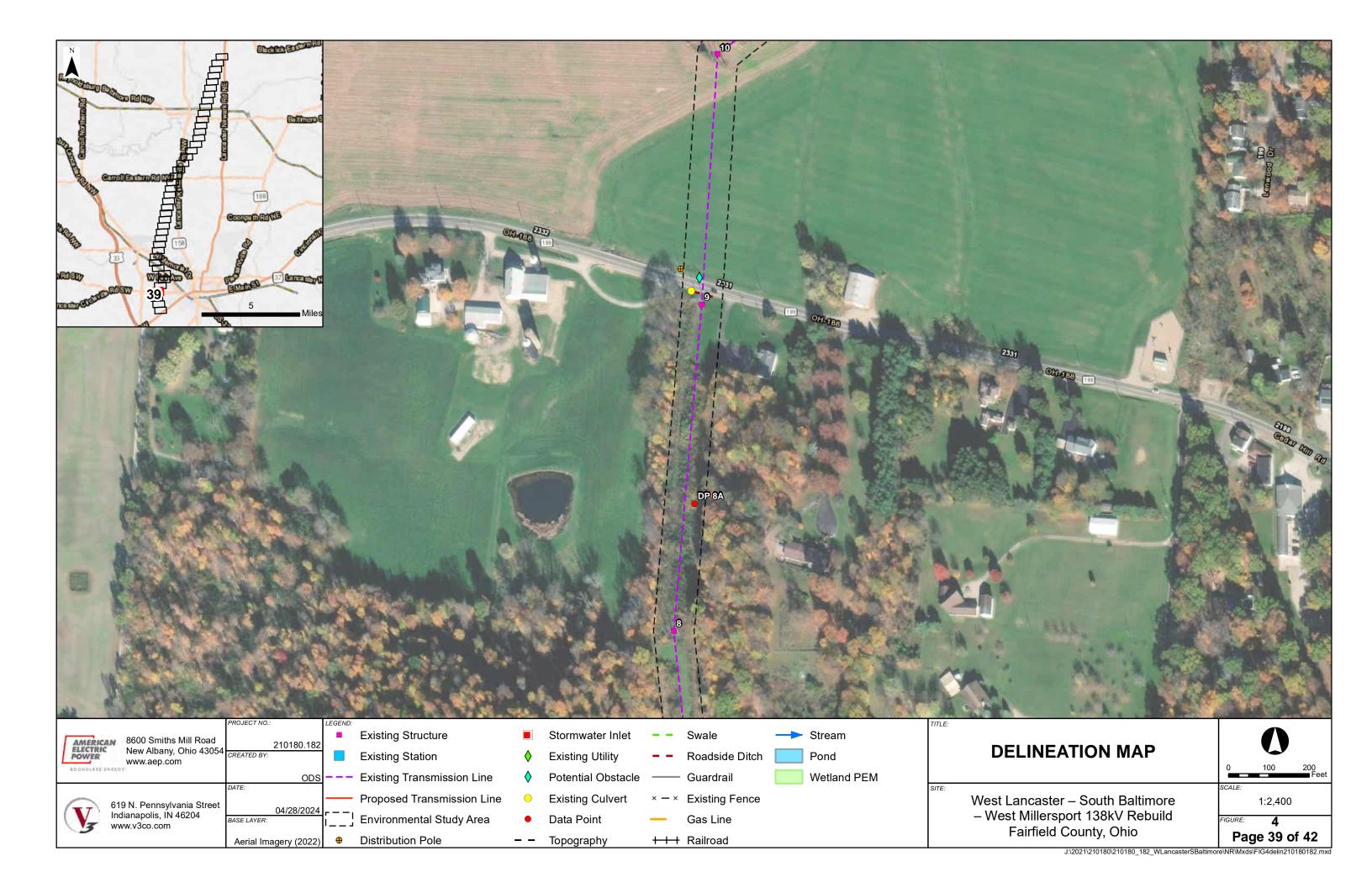


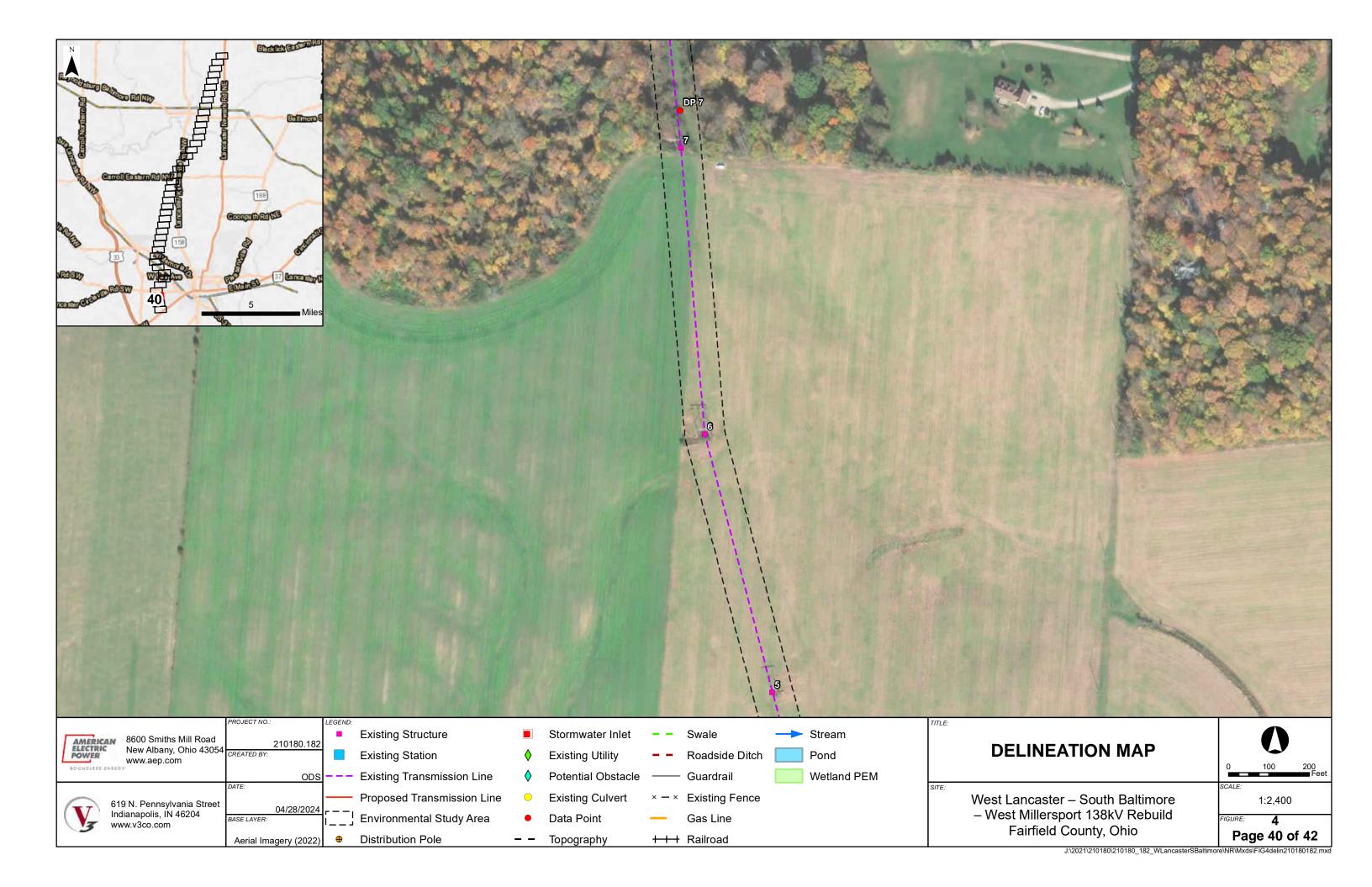


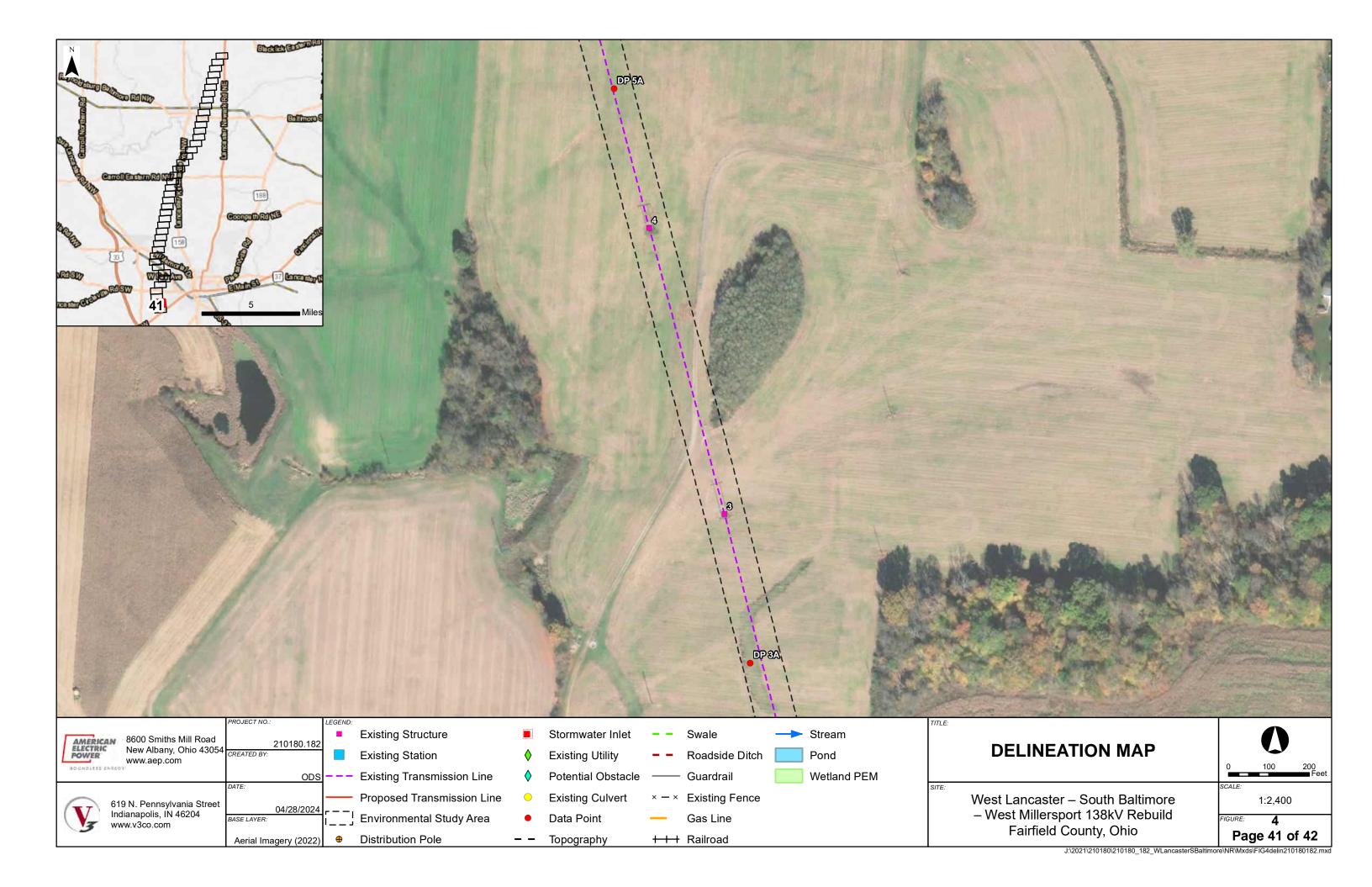


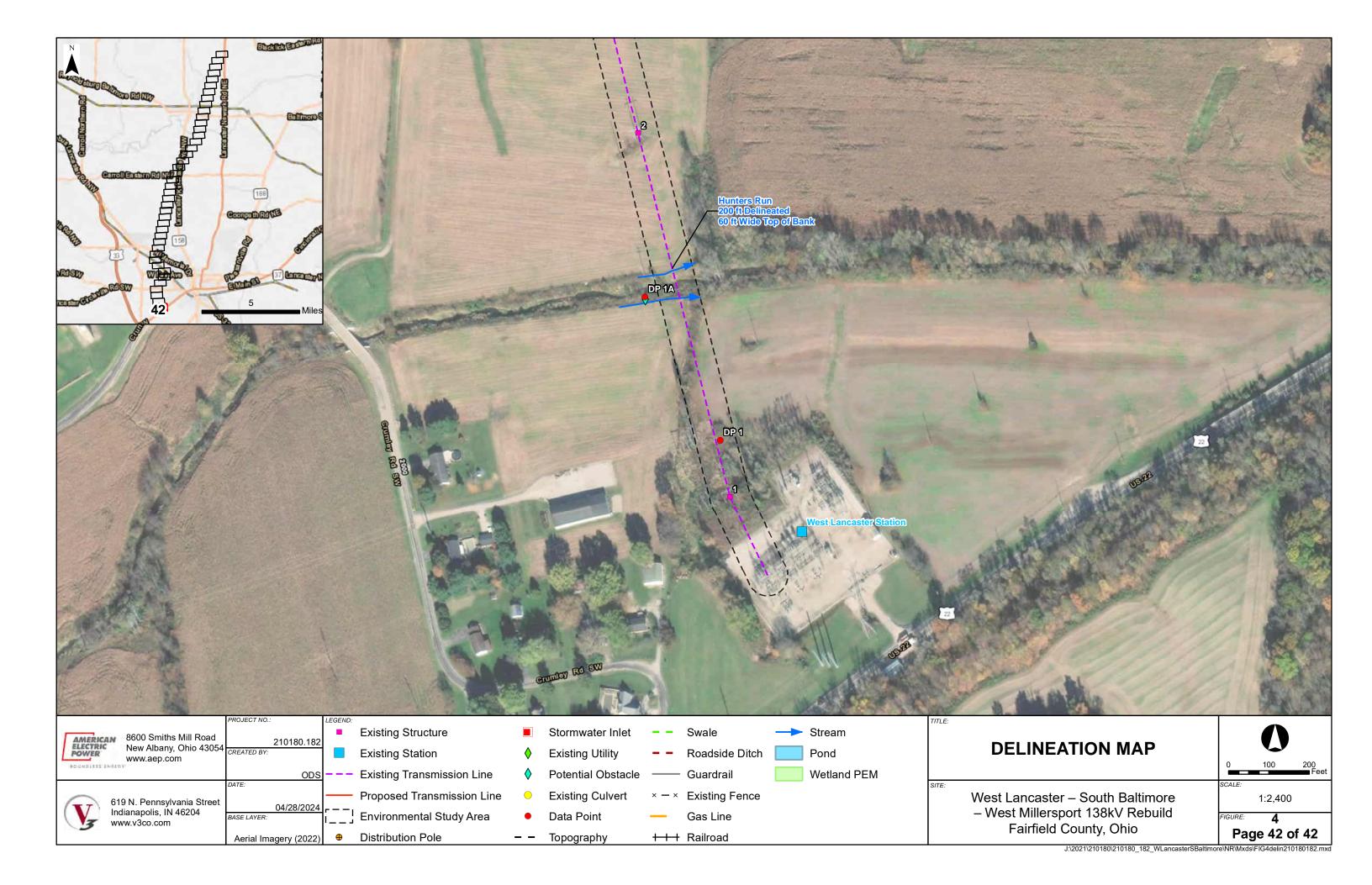












Appendix A

ETR Species Correspondence Letters





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: 03/18/2024 20:18:46 UTC

Project Code: 2024-0064491

Project Name: West Lancaster - South Baltimore - West Millersport 138kV Rebuild

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 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 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.

Project code: 2024-0064491

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:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.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/program/migratory-bird-permit/what-we-do.

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/library/collections/threats-birds.

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/partner/council-conservation-migratory-birds.

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.

Project code: 2024-0064491 03/18/2024 20:18:46 UTC

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: 2024-0064491

Project Name: West Lancaster – South Baltimore – West Millersport 138kV Rebuild Project Type: Transmission Line - Maintenance/Modification - Above Ground

Project Description: AEP proposes to rebuild the West Lancaster – South Baltimore – West

Millersport 138kV Transmission Line located in Liberty, Walnut, Greenfield, and Pleasant Township, Fairfield County Ohio. The project involves rebuilding approximately 14.4 miles of the West Lancaster – South Baltimore – West Millersport 138 kV Transmission Lines.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.7632933,-82.63181485815679,14z



Counties: Fairfield County, Ohio

ENDANGERED SPECIES ACT SPECIES

Project code: 2024-0064491

There is a total of 7 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.

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.

Project code: 2024-0064491 03/18/2024 20:18:46 UTC

MAMMALS

NAME STATUS

Indiana Bat *Myotis sodalis*

Endangered

Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Northern Long-eared Bat Myotis septentrionalis

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Tricolored Bat *Perimyotis subflavus*Proposed

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/10515

Endangered

REPTILES

NAME STATUS

Eastern Massasauga (=rattlesnake) Sistrurus catenatus

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2202

Threatened

CLAMS

NAME STATUS

Round Hickorynut *Obovaria subrotunda*

Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/9879

Salamander Mussel Simpsonaias ambigua

Proposed

There is **proposed** critical habitat for this species. Your location does not overlap the critical

habitat.

Species profile: https://ecos.fws.gov/ecp/species/6208

Endangered

INSECTS

NAME STATUS

Monarch Butterfly *Danaus plexippus*

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

CRITICAL HABITATS

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

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2024-0064491 03/18/2024 20:18:46 UTC

IPAC USER CONTACT INFORMATION

Agency: V3 Companies Name: Olivia Speckman

Address: 619 N Pennsylvania Street

City: Indianapolis

State: IN Zip: 46204

Email ospeckman@v3co.com

Phone: 3174230690

United States Department of the Interior



FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994



April 17, 2024

Project Code: 2024-0064491

Dear Olivia Speckman:

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).

Federally Threatened and Endangered Species: The endangered Indiana bat (Myotis sodalis) and 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: The proposed project is in the vicinity of one or more confirmed records of Indiana bats and/or northern long-eared bats. 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. Please note that, because Indiana bat and/or northern long-eared bat presence has already been confirmed in the project vicinity, any additional summer surveys would not constitute presence/absence surveys for these species.

<u>Federally Proposed Species</u>: On September 14, 2022, the Service proposed to list the tricolored bat (*Perimyotis subflavus*) as endangered under the ESA. The bat faces extinction due to the impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. During spring, summer, and fall, this species roosts primarily among leaf clusters of live or recently dead trees, emerging at dusk to hunt for insects over waterways and forest edges. While white-nose syndrome is by far the most serious threat to the tricolored bat, other threats now have an increased significance due to the dramatic decline in the species' population. These threats include disturbance to bats in roosting, foraging, commuting, and over-wintering habitats. Mortality due to collision with wind turbines, especially during migration, has also been documented across their range. Conservation measures for the Indiana bat and northern longeared bat will also help to conserve the tricolored bat.

Section 7 Coordination: 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.

Stream and Wetland Avoidance: 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 (https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf). 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, Environmental Services Administrator, at (614) 265-6387 or at mike.pettegrew@dnr.ohio.gov.

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

Sincerely,

Erin Knoll

Field Office Supervisor

Ein Hell

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



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate
Tara Paciorek, Chief
2045 Morse Road – Bldg. E-2
Columbus, Ohio 43229

Phone: (614) 265-6661 Fax: (614) 267-4764

April 26, 2024

Olivia Speckman V3 Companies 619 North Pennsylvania Street Indianapolis, Indiana 46204

Re: 24-0500_West Lancaster - South Baltimore - West Millersport 138kV Rebuild

Project: The proposed project involves rebuilding approximately 14.4 miles of the West Lancaster – South Baltimore – West Millersport 138 kV Transmission Lines.

Location: The proposed project is located in Liberty, Walnut, Greenfield, and Pleasant townships, Fairfield 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 within one mile of the project area:

Cerulean Warbler (Setophaga cerulea), SC Kidneyshell (Ptychobranchus fasciolaris), SC Great Blue Heron Rookery Appalachian oak forest plant community Oak-maple forest plant community

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. Records for high quality plant communities indicate the presence of sites that are in our inventory of the best remaining examples of Ohio's pre-settlement ecosystems.

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species and features listed above are not recorded within the boundaries of the specified project area. However, 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 project is within the vicinity of records for the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, 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 endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species 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. The DOW recommends tree 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 ≥ 20 if possible.

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.

This project must not have an impact on native mussels. This applies to both listed and non-listed species, as all species of mussel are protected in Ohio. Per the Ohio Mussel Survey Protocol (2022), all Group 2, 3, and 4 streams (Appendix A) require a mussel survey. Per the Ohio Mussel Survey Protocol, Group 1 streams (Appendix A) and unlisted streams with a watershed of 5 square miles or larger above the point of impact should be assessed using the Reconnaissance Survey for Unionid Mussels (Appendix B) to determine if mussels are present. Mussel surveys may be recommended for these streams as well. Therefore, if in-water work is planned in any stream that meets any of the above criteria, the DOW recommends the applicant provide information to indicate no mussel impacts will occur. If this is not possible, the DOW recommends a professional malacologist conduct a mussel survey in the project area. If mussels that cannot be avoided are found in the project area, the DOW recommends a professional

malacologist collect and relocate the mussels to suitable and similar habitat upstream of the project site. Mussel surveys and any subsequent mussel relocation should be done in accordance with the Ohio Mussel Survey Protocol. If there is no in-water work proposed, impacts to mussels are not likely.

The project is within the range of the northern brook lamprey (*Ichthyomyzon fossor*), a state endangered fish, and the popeye shiner (*Notropis ariommus*), a state endangered fish. The DOW recommends no inwater work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the northern harrier (*Circus hudsonius*), 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 mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator

Appendix B

SITE Photographs



Photo: 1 WL-12-PEM

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 2 WL-12-PEM

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 3 WL-12-PEM

<u>Direction of View:</u> South

<u>Date:</u> 27 March 2024



Photo: 4 WL-12-PEM

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 5
DP UPL-12

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 6
DP UPL-12

Direction of View:

West

Date:



Photo: 7 WL-10-PEM

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 8 WL-10-PEM

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 9 WL-10-PEM

<u>Direction of View:</u> South



Photo: 10 WL-10-PEM

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 11 DP UPL-10

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 12 DP UPL-10

<u>Direction of View:</u> South

Date:



Photo: 13 WL-5-PEM

<u>Direction of View:</u> Northeast

Date:

27 March 2024



Photo: 14 WL-5-PEM

<u>Direction of View:</u> East

Date:

27 March 2024



Photo: 18 WL-5-PEM

<u>Direction of View:</u> Southwest

Date:



Photo: 16 WL-5-PEM

<u>Direction of View:</u> West

Date:

28 March 2024



Photo: 17 DP UPL-5

<u>Direction of View:</u> Southwest

Date:

27 March 2024



Photo: 18 WL-68-PEM

Direction of View:

North

Date:



Photo: 19 WL-68-PEM

<u>Direction of View:</u> East

Date:

27 March 2024



Photo: 20 WL-68-PEM

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 21 WL-68-PEM

Direction of View:

West

Date:



Photo: 22 DP UPL-68

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 23 DP UPL-68

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 24 WL-60-PEM DP WL-60

<u>Direction of View:</u> North



Photo: 25 WL-60-PEM DP WL-60

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 26 WL-60-PEM DP WL-60

<u>Direction of View:</u> South

Date: 27 March 2024

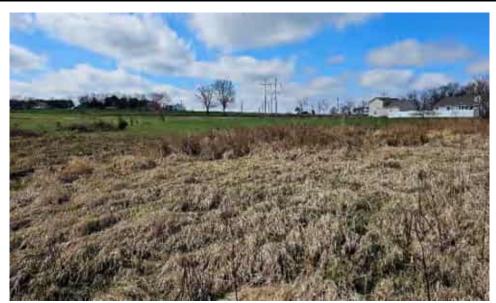


Photo: 27 WL-60-PEM DP WL-60

<u>Direction of View:</u> West



Photo: 28 DP UPL-60

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 29 DP UPL-60

<u>Direction of View:</u> Southwest

Date: 27 March 2024



Photo: 30 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> North



Photo: 31 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 32 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 33 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> West



Photo: 34 DP UPL-60-A

<u>Direction of View:</u> Southwest

Date:

27 March 2024



Photo: 35 WL-50-PEM

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 36 WL-50-PEM

Direction of View:

East

Date:



Photo: 37 WL-50-PEM

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 38 WL-50-PEM

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 39 DP UPL-50

Direction of View:

East

Date:



Photo: 40 DP UPL-50

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 41 WL-41-PEM

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 42 WL-41-PEM

Direction of View:

East

Date:



Photo: 43 WL-41-PEM

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 44 WL-41-PEM

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 45
DP UPL-41

<u>Direction of View:</u> North

Date:



Photo: 46 DP UPL-41

<u>Direction of View:</u> Southwest

Date:

27 March 2024



Photo: 47 WL-18-PEM

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 48 WL-18-PEM

<u>Direction of View:</u> East

Date:



Photo: 49 WL-18-PEM

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 50 WL-18-PEM

Direction of View:

West

Date:

28 March 2024



Photo: 51
DP UPL-18

Direction of View:

East

Date:



Photo: 52 DP UPL-18

<u>Direction of View:</u> West

Date:

28 March 2024



Photo: 53 DP 33A

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 54 DP 33A

<u>Direction of View:</u> South

Date:



Photo: 55
DP 33

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 56 DP 33

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 57 DP 31

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 58 DP 31

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 59 DP 28

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 60 DP 28

<u>Direction of View:</u> South

Date:



Photo: 61 DP 25

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 62 DP 25

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 63 DP 22

<u>Direction of View:</u> North

Date:



Photo: 64
DP 22

<u>Direction of View:</u> South

<u>Date:</u>

27 March 2024



Photo: 65 DP 19

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 66 DP 19

Direction of View:

South

Date:



Photo: 67
DP 16

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 68 DP 16

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 69 DP 14

<u>Direction of View:</u> North

Date:



Photo: 70 DP 14

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 71 DP 12

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 72 DP 12

<u>Direction of View:</u> South

Date:



Photo: 73
DP 10

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 74 DP 10

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 75
DP 8

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 76
DP 8

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 77 DP 6

<u>Direction of View:</u> Northeast

Date:

27 March 2024



Photo: 78 DP 6

<u>Direction of View:</u> Southwest

Date:



Photo: 79
DP 4

<u>Direction of View:</u> Northeast

<u>Date:</u>

27 March 2024



Photo: 80 DP 4

<u>Direction of View:</u> Southwest

Date: 27 March 2024



Photo: 81 DP 4A

<u>Direction of View:</u> Northeast

<u>Date:</u>



Photo: 82 DP 4A

<u>Direction of View:</u> Southwest

<u>Date:</u> 27 March 2024



Photo: 83 DP 3

<u>Direction of View:</u> Northeast

Date: 27 March 2024



Photo: 84
DP 3

<u>Direction of View:</u> Southwest

<u>Date:</u> 27 March 2024



Photo: 85

<u>Direction of View:</u> Northeast

Date:

27 March 2024



Photo: 86 DP 2

Direction of View:

Southwest

Date:

27 March 2024

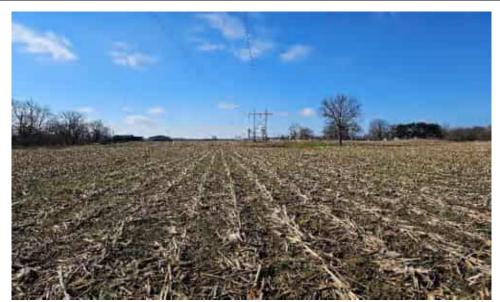


Photo: 87
DP 71

Direction of View:

North

Date:



Photo: 88 DP 71

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 89 DP 70

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 90 DP 70

<u>Direction of View:</u> South

Date:



Photo: 91
DP 68

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 92 DP 68

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 93 DP 63

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 94 DP 63

<u>Direction of View:</u> South

<u>Date:</u>

27 March 2024



Photo: 95 DP 62A

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 96 DP 62A

<u>Direction of View:</u> South

<u>Date:</u> 27 March 2024



Photo: 97
DP 62

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 98 DP 62

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 99 DP 59

<u>Direction of View:</u> Northeast

Date: 27 March 2024



Photo: 100 DP 59

<u>Direction of View:</u> Southwest

<u>Date:</u> 27 March 2024



Photo: 101 DP 57

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 102 DP 57

<u>Direction of View:</u> Southwest

Date: 27 March 2024



Photo: 103 DP 52

<u>Direction of View:</u> East

Date:

27 March 2024



Photo: 104 DP 52

Direction of View:

West

Date:

27 March 2024



Photo: 105
DP 51

Direction of View:

Northwest

Date:



Photo: 106
DP 51

<u>Direction of View:</u> Southeast

Date:

27 March 2024



Photo: 107 DP 48

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 108 DP 48

Direction of View:

South

Date:



Photo: 109 DP 46

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 110 DP 46

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 111 DP 44

<u>Direction of View:</u> North

Date:



Photo: 112 DP 44

<u>Direction of View:</u> South

<u>Date:</u>

27 March 2024



Photo: 113 DP 42

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 114 DP 42

<u>Direction of View:</u> South

Date:



Photo: 115 DP 41

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 116 DP 41

<u>Direction of View:</u> South

<u>Date:</u>

27 March 2024



Photo: 117 DP 40

<u>Direction of View:</u> North

Date:



Photo: 118 DP 40

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 119 DP 39

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 120 DP 39

<u>Direction of View:</u> South

Date:



Photo: 121
DP 36

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 122 DP 36

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 123 DP 34

<u>Direction of View:</u> North

Date:



Photo: 124
DP 34

<u>Direction of View:</u> South

<u>Date:</u>

28 March 2024



Photo: 125 DP 32

<u>Direction of View:</u> Northeast

Date:

28 March 2024



Photo: 126
DP 32

Direction of View:

West

Date:



Photo: 127 DP 31A

<u>Direction of View:</u> North

<u>Date:</u> 28 March 2024



Photo: 128 DP 31A

<u>Direction of View:</u> South

Date: 28 March 2024



Photo: 129 DP 26

<u>Direction of View:</u> North

Date: 28 March 2024



Photo: 130 DP 26

<u>Direction of View:</u> South

Date:

28 March 2024



<u>Photo: 131</u>

DP 23

Direction of View:

North

Date:

28 March 2024



Photo: 132 DP 23

Direction of View:

South

Date:



Photo: 133 DP 22

Direction of View: North

Date:

28 March 2024



Photo: 134 DP 22

Direction of View: South

Date:

28 March 2024



Photo: 135 DP 20

Direction of View: Northwest

Date:



Photo: 136 DP 20

<u>Direction of View:</u> Southeast

Date:

28 March 2024



Photo: 137 DP 15

<u>Direction of View:</u> Northeast

Date:

28 March 2024



Photo: 138 DP 15

Direction of View:

South

Date:



Photo: 139 DP 13

<u>Direction of View:</u> Northeast

Date:

28 March 2024



Photo: 140 DP 13

Direction of View:

Southwest

Date:

28 March 2024



Photo: 141
DP 11

Direction of View:

North

Date:



Photo: 142 DP 11

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 143 DP 8A

<u>Direction of View:</u> North

Date: 28 March 2024



Photo: 144 DP 8A

<u>Direction of View:</u> South

<u>Date:</u>



Photo: 145
DP 7

<u>Direction of View:</u> North

<u>Date:</u>

28 March 2024



Photo: 146

DP 7

Direction of View:

South

Date:

28 March 2024



Photo: 147 DP 5A

Direction of View:

North

Date:



Photo: 148 DP 5A

<u>Direction of View:</u> South

<u>Date:</u>

28 March 2024



Photo: 149 DP 3A

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 150 DP 3A

<u>Direction of View:</u> South

Date:



Photo: 151 DP 1A

<u>Direction of View:</u> East

Date:

28 March 2024



Photo: 152 DP 1A

Direction of View:

West

Date:

28 March 2024



Photo: 153

Direction of View:

East

Date:



Photo: 154 DP 1

<u>Direction of View:</u> West

Date:

28 March 2024



Photo: 155 ST-31-PER

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 156 ST-31-PER

Direction of View:

South

Date:



Photo: 157 ST-25-PER

Direction of View:

East

Date:

27 March 2024



Photo: 158 ST-25-PER

Direction of View:

West

Date:

27 March 2024



Photo: 159 ST-15-PER

Direction of View:

East

Date:



Photo: 160 ST-15-PER

Direction of View:

Southwest

Date:

27 March 2024



<u>Photo: 161</u> Walnut Creek

Direction of View:

East

Date:

27 March 2024



Photo: 162 Walnut Creek

Direction of View:

West

Date:



Photo: 163 ST-2-PER

Direction of View:

East

Date:

27 March 2024



Photo: 164 ST-2-PER

Direction of View:

West

Date:

27 March 2024



Photo: 165 ST-68-INT

Direction of View:

East

Date:



Photo: 166 ST-68-INT

Direction of View:

West

<u>Date:</u>

27 March 2024



Photo: 167 ST-63-EPH

Direction of View:

Northeast

Date:

27 March 2024



Photo: 168 ST-63-EPH

Direction of View:

Southwest

Date:



Photo: 169 ST-55-INT

Direction of View:

East

Date:

27 March 2024



Photo: 170 ST-55-INT

Direction of View:

West

Date:

27 March 2024



Photo: 171 ST-53-INT

<u>Direction of View:</u> North

Date:



Photo: 172 ST-53-INT

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 173 ST-48-EPH

<u>Direction of View:</u> Northwest

Date: 27 March 2024



Photo: 174 ST-48-EPH

<u>Direction of View:</u> Southeast

<u>Date:</u>



Photo: 175 ST-44-INT

<u>Direction of View:</u> East

Date:

27 March 2024



Photo: 176 ST-44-INT

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 177 ST-44-EPH

<u>Direction of View:</u> North

Date:



Photo: 178 ST-44-EPH

Direction of View:

South

Date:

27 March 2024



Photo: 179 ST-42-INT

Direction of View:

East

Date:

27 March 2024



Photo: 180 ST-42-INT

Direction of View:

West

Date:



Photo: 181 ST-14-PER

Direction of View:

East

<u>Date:</u>

28 March 2024



Photo: 182 ST-14-PER

<u>Direction of View:</u> Southwest

Date:

28 March 2024



Photo: 183 Hocking River

Direction of View:

Northwest

Date:



Photo: 184
Hocking River

Direction of View:

Southeast

Date:

28 March 2024



Photo: 185 ST-11-INT

Direction of View:

Northwest

Date:

28 March 2024



Photo: 186 ST-11-INT

Direction of View:

Southeast

Date:



Photo: 187 Hunters Run

Direction of View:

Northwest

Date:

28 March 2024



Photo: 188 Hunters Run

Direction of View:

East

Date:

28 March 2024



Photo: 189 OW-32-POND

Direction of View:

East

Date:



Photo: 190 OW-32-POND

<u>Direction of View:</u> South

<u>Date:</u>

28 March 2024



Photo: 191 OW-22-POND

<u>Direction of View:</u> Northwest

Date:

28 March 2024



Photo: 192 OW-22-POND

<u>Direction of View:</u> South

Date:



Appendix C

Data Forms



Site: Client:		er-S.Baltimor	e-W.Millersport	City/County:		Fai	rfield County nship, Range:	Date:	27 Marc	h 2024 Data F S19, T 16N, R	
Invest	tigator(s):	N. Houk, N					Landform		erraces	Local Relief	Concave
Slope Soil M		1-3 Canal silt le	Lat. 2 oam, 0 to 2 perc	39.847477 cent slones	Long.		-82.586566	_Datum	NAD83	NWI Class:	PEM
COILIV	Climatic/hydrolo	ogic condition	ns typical for tim	e of year?	Y/N	Υ					
	Vegetation		,	N or H	ydrology	N	significantly disturbed				
Are N	Vegetation ormal Circums		,	N or H	ydrology No	N	naturally problematic				
	MARY OF FIND	DINGS			_ 110						
	Hydr		etation Present?		_No			I	DD 1/11		
	,		ric Soil Present? Irology Present?		_No No			Yes	x No	a Wetland?	
Rema	rks:		e.egyeee	100 X	110			1.00	х 110		
VEGE	TATION			A h = = l · · t = 0/	D						
Tree S	Stratum_	Plot size:	30'	Absolute % Cover		inant cies	Indicator Statu	IS			
1.				30.0.	Opo	0.00				minance Test \	
2.				-						f dominant spec	
3. 4.							-			FACW, or FAC: ber of dominant	
5.					_					cross all strata:	2
Chrub	Stratum	Diet eizer	15'	0	Total C	over				dominant spec FACW, or FAC:	
1.	Stratum	Plot size:	13						,	ce Index Works	
2.									Total	% cover of:	
3. 4.									OBL spec FACW spec		x 1 80
5.	-						-		FAC spec		$- \frac{x^2}{x^3} = \frac{40}{0}$
				0	Total C	over			FACU spe		x 4
Herb S	Stratum Leersia oryzo	Plot size:	5'	80	,	Y	OBL	1	UPL speci		_ x 5(120
2.	Elymus virgin			20		Y	FACW	2	100	Prevalence	
3.										tic Vegetation	
4. 5.					-		-			oid Test for Hydi ninance Test is	
6.					_					valence Index is	
7.					_					phological Adar	
8.	-			100	Total C	over	-			elematic Hydrophy	ū
Wood	y Vine Stratum	Plot size:	30'							tors of hydric so logy must be pr	
1. 2.	-						-			disturbed or pro	
۷.	-			0	Total C	over	-		Hydro	phytic Vegetat	tion Present?
	Remarks:								Yes	x No	
SOIL	Pı	rofile Descri	ption: (Descri	be to depth n	eeded to	docui	ment the indicator or	confirm	absence	of indicators.)	
	Depth		Matrix				Redox Featu	ıres			
	(inches) 0-18	Color 10YR 4/1	% 95	Color 10YR 5/6	5	Type'	Loc**	Text	ture	Remarks	
	0-18	1011 4/1	93	10110 3/0	3		IVI	51 (<i>J</i> L		
	*Type:	C=Concentr	ation, D=Deplet	ion, RM=Redi				**Locat	ion: PL=Pc	re Lining, M=M	atrix
	History (A4)						ndicators:		Dar	lass Danle Confee	- (FC)
	Histosol (A1) Histic Epiped	on (A2)			Sandy i	iviucky i ucky Pe	Mineral (S1) eat or Peat			lox Dark Surfac leted Dark Surf	` '
	Black Histic (A3) ´			Sandy (Gleyed	Matrix (S4)		Rec	lox Depressions	s (F8) ´
	Hydrogen Sul				Sandy I					ors for Problema st Prairie Redo	
	Stratified Lay						Mineral (F1)			-Manganese M	
	Depleted Belo	ow Dark Surf	ace (A11)		Loamy	Gleyed	Matrix (F2)		Ver	y Shallow Dark	Surface (F12)
Daatu	Thick Dark Su		T	X	Deplete	ed Matri	x (F3)		Oth	er	
Restr	ictive Layer (if	observed):	Depth (Inches)	:			Hydric Soil Pro	esent?	Yes	x No	
	Remarks:										
	OLOGY Ind Hydrology	Indicators:									
Would	ila riyarology		nary Indicators	(check all th	nat apply	')			Sec	ondary Indica	tors
Х	Surface Water				r Stained		s (B9)			oil Cracks (B6)	
X	_High Water T Saturation (A				tic Fauna Aquatic F		R14)			Patterns (B10) on Water Table	(C2)
	Water Marks				ogen Sulf					Surrows (C8)	(02)
	Sediment Dep	posits (B2)		Oxidi	zed Rhizo	osphere	es on Living Roots		Saturation	Visible on Aeri	al Imagery (C9)
	Drift Deposits Algal Mat or 0						l Iron (C4) n in Tilled Soil (C6)	х		Stressed Plant nic Position (D2)	
	Iron Deposits	(B5) `		Thin I	Muck Su	rface (C	27)			ral Test (D5)	,
	Inundation Vi	sìble on Aeria	al Imagery (B7)	Guag	e or Wel				-	. ,	
Field	Sparsely Veg Observations			Other Yes x	r No		Depth (inches) 1	1			
i ieiu	CDSCI VALIUIIS		le Present?	Yes x	No		Depth (inches) 0	Hydro	loy Indicat	ors Present?	
Door	iho Dogordad I	Saturation		Yes x	No	provis	Depth (inches) 0 us inspections), if avail		Yes		
PESCL	ine vecolaga r	Jaia isiittäili	uuau u . HOHIIO	mu wen, aeria	ม มาเบเบร.	DI EVIO	ua madecuona). Il avall	iault.			

Site: Client:		r-S.Baltimor AEP	e-W.Millersport		Section		irfield County nship, Range:	Date:		<u>h 2024</u> D S19. T 16N		UPL-12
Invest	igator(s):	N. Houk, N				•	_ Landforr	n Te	erraces	Local Re	elief (Convex
Slope		1-3	Lat. 3 oam, 0 to 2 perd	39.847526	Long.		-82.586522	Datum	NAD83	NWI Cla	ISS:	N/A
			ns typical for tim		Y/N	Υ						
	Vegetation				drology	N	significantly disturbed					
Are No	Vegetatior ormal Circumst		,	N or Hy es x	drology No	N	naturally problematic					
	MARY OF FIND	INGS			_							
	Hydr		etation Present? ric Soil Present?		No No	X		Is the	DP within	a Wetland	2	
			rology Present?		No	X		Yes	No	X	·	
Rema	rks: TATION											
		District	201	Absolute %	Dom	inant	In dianta a Otat					
	Stratum_	Plot size:	30	Cover	Spe	ecies	Indicator Stat	us	_			
1. 2.										minance To f dominant		at
3.									are OBL, I	FACW, or F	AC:	1
4. 5.										ber of domi cross all str		4
J.	-		 ,	0	Total C	over				dominant		at
Shrub 1.	Stratum Rosa multifloi	Plot size:	15'	8	,	v	FACU	4		FACW, or F ce Index W		
2.	Rubus allegh			2		<u>Y</u>	FACU	4		% cover of:		
3.									OBL speci		<u>0</u> x 1	0
4. 5.					-				FACW speci		0 x 2 25 x 3	
				10	Total C	over			FACU spe		85 x 4	340
Herb S	Stratum Solidago cana	Plot size: adensis	5'	75	,	Y	FACU	4	UPL speci Tot		<u>0</u> x 5	<u>0</u> 415
2.	Apocynum ca	nnabinum		20		Y	FAC	3		Preva	lence Inde	ex: 3.77
3. 4.	Vernonia giga	antea		5		N	FAC	3		tic Vegeta id Test for		
5.			·						Don	ninance Te	st is >50%	-
6. 7.							-			valence Ind phological		
8.										lematic Hydr		
\\\ood	y Vine Stratum	Plot cizo:	30'	100	Total C	over				tors of hydi		
1.	y vine Stratum	_ FIUL SIZE.	30						,	logy must b	•	
2.				0	Total C					disturbed or phytic Vec	•	
	Remarks:			0	Total C	ovei			Yes	. , .	•	resent:
SOIL	D	ofilo Docori	ntion: /Docaril	no to donth n	andad t	o doou	ment the indicator or	oonfirm	absance	of indicate	ro \	
	Depth		Matrix	be to depth in	eeueu u	o docu	Redox Feat		absence	oi indicato	15.)	
	(inches)	Color	%	Color	%	Type ³	* Loc**		ture	Rema	rks	
	0-13 13-18	10YR 4/1 10YR 4/1	100 95	10YR 5/6	5	С	M	Si C				
	*Type:	C=Concentr	ation, D=Deplet	ion, RM=Redu			=Coated Sand grains	**Locat	ion: PL=Po	re Lining, N	Л=Matrix	
	Histosol (A1)						ndicators: Mineral (S1)		Red	lox Dark Su	rface (F6)	1
	Histic Epipedo				5cm M	ucky Pe	eat or Peat		Dep	leted Dark	Surface (F	
	Black Histic (A Hydrogen Sul				Sandy Sandy		Matrix (S4) (S5)			lox Depress ors for Prob		dric Soils
	Stratified Laye	ers (À5)			Strippe	d Matri	x (S6)		Coa	st Prairie R	Redox (A16	6)
	2 cm Muck (A Depleted Belo		ace (A11)		Loamy	Mucky	Mineral (F1) I Matrix (F2)			-Manganes		
	Thick Dark Su		ace (ATT)		Deplete				Oth	,	ark Surial	Ge (F12)
Restri	ictive Layer (if	observed):					Uvdria Cail D		Vaa	N		
	Remarks:		Depth (Inches)	•			Hydric Soil P	esent	Yes	N	o x	
	OLOGY nd Hydrology	Indicators										
vvelia	na nyarology		nary Indicators	(check all th	at apply	/)			Sec	ondary Inc	dicators	
	Surface Wate	r (A1)	•	Wate	Stained	d Leave				oil Cracks (
	High Water Tage Saturation (A:				ic Fauna Aquatic I					Patterns (B on Water Ta		
	Water Marks	(B1)		Hydro	gen Sulf	fide Od	or (C1)		Crayfish B	urrows (C8	3)	(- -)
	Sediment Deposits						es on Living Roots d Iron (C4)			Visible on Stressed F		
	Algal Mat or C	Crust (B4)		Recer	nt Iron R	eductio	on in Tilled Soil (C6)		Geomorph	nic Position	(D2)	,
<u> </u>	Iron Deposits		al Imagery (B7)		/luck Su e or Wel				FAC-Neut	ral Test (D5	i)	
	Sparsely Veg	etated Conc	ave Surface	Other	J 01 VVEI	Dala (
Field	Observations:		ater Present? le Present?	Yes Yes	No No	X	Depth (inches) Depth (inches)	الارطاء	lov Indiast	ors Preser		
L		Saturation	Present?	Yes	No	X X	Depth (inches)		ioy indicat Yes			
Descri	ihe Recorded F					nrevio	us inspections) if ava	ilable.			_	

Site: Client:		r-S.Baltimor AEP	e-W.Millersport	City/County:		Fai	irfield County nship, Range:	_Date:		■ <u>h 2024</u> Data Po S25, R 16N, R 19	
Invest	tigator(s):	N. Houk, N				,	Landform		rrances	Local Relief	Concave
Slope Soil M		1-3 Canal silt I	Lat. 3 oam, 0 to 2 perc	39.841685 cent slopes	Long.		-82.589005	Datum	NAD83	_ NWI Class: _	PEM
	Climatic/hydrolo	gic condition	ns typical for tim	e of year?	Y/N	Y					
	Vegetation Vegetation			N or Hy N or Hy	/drology /drology	$\frac{N}{N}$	significantly disturbed naturally problematic				
	ormal Circumsta	ances Prese		'es x			naturally problematic				
SUMN	MARY OF FIND Hydro		etation Present?	Yes x	No			1			
	-	Hydi	ric Soil Present?	Yes x	_No			Is the I	DP within	a Wetland?	
Rema		Vetland Hyd	Irology Present?	Yes x	No			Yes	x No		
	TATION										
Tree S	Stratum	Plot size:	30'	Absolute %	Domi		Indicator Statu	S			
1.				Cover	Spe	cies			Do	minance Test W	orksheet
2.									Number of	dominant specie	
3. 4.					_					FACW, or FAC: ber of dominant	
5.					_		-		species ad	cross all strata:	2
Chrub	Stratum	Diet eizer	15'	0	Total Co	over				dominant specie	es that 100.00
<u> </u>	Stratum	Plot size:	15							FACW, or FAC: ce Index Worksh	eet
2.					-				Total	% cover of:	
3. 4.							-		OBL spec		x 1 0 x 2 50
5.	-								FAC spec	es 15	x 3 45
Herb S	Stratum	Plot size:	5'	0	_Total Co	over			FACU speci		x 4 x 5 0
1.	Elymus virgini	cus		25		<u> </u>	FACW	2	Tot	al 40	95
2. 3.	Barbarea vulg	aris		15		<u> </u>	FAC	3	Hydronhy	Prevalence tic Vegetation Ir	
4.					_				Rap	id Test for Hydro	phytic Veg.
5. 6.					_		-			ninance Test is > valence Index is •	
7.					-					phological Adapta	
8.				40	Tatal C					lematic Hydrophytic	· ·
Wood	y Vine Stratum	Plot size:	30'	40	_Total Co	over				tors of hydric soil	
1.			·		_		-		,	logy must be pres disturbed or probl	•
2.	-			0	Total Co	over	-			phytic Vegetation	
	Remarks:			-					Yes		
SOIL	Pre	ofile Descri	ption: (Descri	be to depth n	eeded to	docui	ment the indicator or	confirm	absence	of indicators.)	
	Depth		Matrix				Redox Featu	ıres		•	
	(inches) 0-18	Color 10YR 3/1	% 95	Color 10YR 5/6	5	Type'	Loc**	Si C	ture	Remarks	
	0.10	10111071		10111070			IVI	O. C	,_		
	*Type: 0	C=Concentr	ation, D=Depleti	ion, RM=Redu			=Coated Sand grains	**Locati	ion: PL=Po	re Lining, M=Mat	rix
	Histosol (A1)						Mineral (S1)		x Red	lox Dark Surface	(F6)
	Histic Epipedo						eat or Peat			leted Dark Surfac	
	Black Histic (A Hydrogen Sulf				Sandy G		Matrix (S4) (S5)			lox Depressions (ors for Problemation	
	Stratified Laye				Strippe					st Prairie Redox	
	2 cm Muck (A Depleted Belo		ace (A11)		Loamy	ілиску Gleved	Mineral (F1) Matrix (F2)			-Manganese Mas	
	Thick Dark Su	rface (A12)	, ,		Deplete				Oth		,
Restri	ictive Layer (if	observed):	Type: Depth (Inches)				Hydric Soil Pro	esent?	Yes	x No	
	Remarks:		Deptir (inches)	•			Tiyano con Ti	COCIIC.	103	X 110	
	OLOGY Ind Hydrology	Indicators:									
vvetia	ina riyarology		nary Indicators	(check all th	at apply	')			Sec	ondary Indicato	rs
Х	Surface Water				r Stained					oil Cracks (B6)	
X	_High Water Ta Saturation (A3				iic Fauna Aquatic F					Patterns (B10) on Water Table (0	C2)
	Water Marks ((B1)		Hydro	gen Sulf	ide Od	or (Ć1)		Crayfish B	urrows (C8)	,
	Sediment Dep Drift Deposits						es on Living Roots d Iron (C4)			Visible on Aerial Stressed Plants	
	Algal Mat or C						n in Tilled Soil (C6)	х		nic Position (D2)	(61)
	Iron Deposits		- I I (DZ)		Muck Sur			Х	FAC-Neut	ral Test (D5)	
	Inundation Vis Sparsely Vege		al Imagery (B7) ave Surface	Guag	e or Well	ı ⊅ata (na)				
Field	Observations:	Surface W	ater Present?	Yes x	No		Depth (inches) 1				
		Water Tab Saturation	le Present?	Yes x Yes x	No No		Depth (inches) 0 Depth (inches) 0	Hydrol	loy Indicat Yes	ors Present?	
Descr	ibe Recorded D					previo	us inspections), if avail	able:	1 05	0 ^ NO	

Site:			e-W.Millersport		C+:		irfield County	Date:				ata Point:	UPL-10
	igator(s):	AEP N. Houk, N			_ Section	i, row	nship, Range: Landform	Те	rrances	Lo	cal Re		Convex
Slope Soil M	(%): ap Unit Name:	Canal silt le		39.841658 cent slopes	Long.		-82.589099	Datum	NAD83	8 N\	VI Cla	ass:	N/A
	limatic/hydrolog	gic condition	ns typical for tin	ne of year?	Y/N	Υ							
	Vegetation Vegetation	N N	_ , Soil , Soil		drology drology		significantly disturbed naturally problematic						
	ormal Circumsta	ances Prese		Yes x			, ,						
SUIVIIV	IARY OF FIND Hydro	phytic Vege	etation Present		No	Х							
	١٨	Hydr	ric Soil Present Irology Present	? Yes x	No No	Х		Is the I	DP within No		tlandî (?	
Remai	rks:	vetiana riya	iology i resent	: 163	INO	^		1163	140	, ,	`		
	TATION			Absolute %	Domi	nant							
	Stratum_	Plot size:	30'	Cover	Spec		Indicator Statu	S	_				
1. 2.												est Works species th	at
3.									are OBL,	FACV	V, or F	FAC:	0
4. 5.									Total nur species a				1
	Stratum	Dist sins	45!	0	Total Co	over	-		Percent of	of dom	inant s	species th	at
1.	Stratum	Plot size:	15						are OBL, Prevaler	_	, -	orksheet	-
2. 3.					-		-		Tota OBL spe	l % cov	ver of:	<u> </u>	0
4.					·				FACW s	pecies	_	0 x 2	0
5.				0	Total Co	wer			FAC spe FACU sp			0 x 3 0 x 4	
	Stratum	Plot size:			=				UPL spe	cies		80 x 5	400
1. 2.	Triticum aestiv	rum residue		80	Y		UPL	5	10	otal I	Preval	80 lence Inde	400 ex: 5.00
3.				-	-							tion Indic	
4. 5.												Hydrophyt st is >50%	
6. 7.							-					lex is <3.0 Adaptation	
8.												rophytic Ve	
Woody	v Vine Stratum	Plot size:	30'	80	Total Co	over					•	ric soil and	
1.		1 101 3120.					-		hydr	0,		e present problema	
2.													
				0	Total Co	ver			Hydr			etation P	
	Remarks:			0	Total Co	over			Hydr Ye	ophyti		getation P	resent?
SOIL	Pro						ment the indicator or		Ye	ophyti s	ic Veg N	getation P	resent?
	Pro Depth		Matrix	be to depth no	eeded to	docu	Redox Featu	ires	absence	ophyties of inc	ic Veg N dicato	getation P o x ers.)	resent?
	Depth (inches)	Color 10YR 3/1	Matrix % 100	be to depth no	eeded to	docu	Redox Featu	res Text Si C	absence	ophyties of inc	ic Veg N	getation P o x ers.)	resent?
	Pro Depth (inches)	Color	Matrix %	be to depth no	eeded to	docu	Redox Featu	res Text	absence	ophyties of inc	ic Veg N dicato	getation P o x ers.)	resent?
	Depth (inches)	Color 10YR 3/1	Matrix % 100	be to depth no	eeded to	docu	Redox Featu	res Text Si C	absence	ophyties of inc	ic Veg N dicato	getation P o x ers.)	resent?
	Depth (inches) 0-4 4-18	Color 10YR 3/1 10YR 3/1	Matrix	Color 10YR 5/6	% 5	Type C	Redox Featu	Text Si C	absence	ophyti s e of inc	ic Veg N dicato	getation P o x ors.)	resent?
	Depth (inches) 0-4 4-18 *Type: (Color 10YR 3/1 10YR 3/1	Matrix	Color 10YR 5/6	% 5	Type C	Redox Featu * Loc** M =Coated Sand grains indicators:	Text Si C	absence	e of inc	ic Veg N dicato Rema	getation P o x ors.) orks M=Matrix	resent?
	Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo	Color 10YR 3/1 10YR 3/1 C=Concentr	Matrix	Color 10YR 5/6	eeded to % 5 ceed Matri Hydric Sandy N 5 5cm Mu	Type C C ix, CS Soil In	Redox Featu * Loc** M =Coated Sand grains adicators: Mineral (S1) eat or Peat	Text Si C	absence ure CL CL ion: PL=P	e of inc	ic Veg N dicato Rema ning, N ark Su Dark	getation P o x ors.) urks M=Matrix urface (F6) Surface (I	resent?
	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A	Color 10YR 3/1 10YR 3/1 C=Concentr	Matrix	Color 10YR 5/6	eeded to % 5 ceed Matri Hydric Sandy N 5 5 m Mu Sandy O	Type C Tix, CS Soil In Mucky cky Pe	Redox Featu * Loc** M =Coated Sand grains adicators: Mineral (S1) eat or Peat Matrix (S4)	Text Si C	ion: PL=P	Pore Line	Remaning, Nark Su	getation P o x ors.) urks M=Matrix urface (F6) Surface (I) sions (F8)	Present?
	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr on (A2) (A3) (de (A4) (rs (A5)	Matrix	Color 10YR 5/6	eeded to % 5 ced Matr Hydric Sandy N Sandy C Sandy C Sandy C Sandy C	Type C C Tix, CS Soil In Mucky cky Pe Bleyed Redox I Matri	Redox Featu * Loc** M =Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6)	Text Si C	x Re Re Indica	e of inc	dicato Rema hing, Mark Su Dark epress r Prob	getation P o x ors.) urks M=Matrix urface (F6) Surface (I) Sions (F8) Hematic Hy Redox (A16	resent?
	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A'	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr on (A2) (A3) (de (A4) (rs (A5) (10)	Matrix % 100 95 ation, D=Deple	Color 10YR 5/6	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy F Strippec Loamy N	Type C Tix, CS Soil In Mucky cky Pe Gleyed Redox I Matri Mucky	Redox Featu * Loc** M =Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1)	Text Si C	x Re Indica Iron Iron Iron Iron Iron Iron Iron Iron	e of inc	dicato Rema hing, Mark Su Dark press r Problairie R ganes	M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix	resent?
SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Deple	Color 10YR 5/6	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy F Strippec Loamy N	Type C Cix, CS Soil II Mucky cky Pe Redox I Matriy Mucky Gleyec	Redox Feature Re	Text Si C	x Re Indica Iron Ve	e of inc	dicato Rema hing, Mark Su Dark press r Problairie R ganes	getation P o x ors.) urks M=Matrix urface (F6) Surface (I) Sions (F8) Hematic Hy Redox (A16	resent?
SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Deple	Color 10YR 5/6 tion, RM=Redu	sandy C Sandy F Strippee Loamy C	Type C Cix, CS Soil II Mucky cky Pe Redox I Matriy Mucky Gleyec	Redox Feature Re	Text Si C Si C	x Re Indica Iron Ve	e of ince e of i	dicato Rema hing, Mark Su Dark press r Problairie R ganes	M=Matrix M=Matr	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks:	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Deple	Color 10YR 5/6 tion, RM=Redu	sandy C Sandy F Strippee Loamy C	Type C Cix, CS Soil II Mucky cky Pe Redox I Matriy Mucky Gleyec	Redox Feature Re	Text Si C Si C	x Re De Co Iro	e of ince e of i	Micato Rema Airk Su Dark Bepress r Proble Biganes Billow D	M=Matrix M=Matr	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr (A2) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color 10YR 5/6 tion, RM=Redu	ced Matr Hydric Sandy N Sandy C Sandy F Stripped Loamy N Depleter	Type C ix, CS Soil II Mucky Cky Pe Gleyed Redox I Matri Mucky Gleyec d Matr	Redox Feature Re	Text Si C Si C	x Re De Co Iro	e of ince e of i	Micato Rema Airk Su Dark Bepress r Proble Biganes Billow D	M=Matrix M=Matr	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Beloo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr on (A2) 3) ide (A4) irs (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prir	Matrix % 100 95 ation, D=Deple	be to depth no Color 10YR 5/6 tion, RM=Redu	seded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C Depleted at apply)	Type C ix, CS Soil II Mucky cky Pe Redox I Matri Mucky Gleyed d Matri	Redox Feature Re	Text Si C Si C **Locati	x Re Indica Iron Ve Ot Ye Se	e of incesses of i	Nidicato Rema hing, N ark Su Dark r Prob k M ary Inc	metalism Poors.) M=Matrix M=Matrix	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr In (A2) 3) ide (A4) irs (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prin (A1) ible (A2)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	be to depth no Color 10YR 5/6 tion, RM=Redu : : : : : : : : : : : : : : : : : :	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy F Strippec Loamy N Loamy (Deplete at apply) Stained ic Fauna	Type C Tix, CS Soil II Mucky cky Pe Redox I Matri Mucky Gleyec d Matr Leave (B13)	Redox Feature Re	Text Si C Si C ***Locati	x Re Indica Co Other Yes Surface Surfa	e of incesses of i	dicato Rema Ark Su Dark Bepress Frob Brining N Ark Su Dark C N Ary India Brining N	M=Matrix M=Matr	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr In (A2)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	be to depth no Color 10YR 5/6 tion, RM=Redu : : : : : : : : : : : : : : : : : :	seded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy F Strippec Loamy N Loamy (Depleted at apply) Stained ic Fauna Aquatic P	Type C Cix, CS Soil II Mucky cky Pe Redox I Matri Mucky Gleyec d Matr Leave (B13) lants (Redox Feature Re	Text Si C Si C ***Locati	x Re De Indica Co Otl	e of incesses of i	dicato Rema Ark Su Dark Dark Probb Riganes Billow D Rema Riganes Billow D Riganes Billow D Riganes Billow D Riganes Billow D	M=Matrix M=Matr	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr (A2) (A3) (ide (A4) (rs (A5) (10) (w Dark Surf (face (A12) (observed): (Indicators: Prin (A1) (b) (b) (B1) (osits (B2)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color 10YR 5/6 10YR 5/6 tion, RM=Redu color 10YR 5/6 tion, RM=Redu tion, RM=Redu True Aquat True Aquat Hydro Oxidiz	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy F Stripped Loamy N Loamy N Deplete at apply Stained ic Fauna Aquatic P gen Sulfi ged Rhizo	Type C C Cix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed d Matri Mucky Gleyed d Matri Mucky Gleyed d Matri	Redox Feature Re	**Locati	ye absence ure CL CL CL CSL Sion: PL=P x Re Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Crayfish Saturatio	e of incesses of i	Nidicato Rema Ark Su Dark Proble Proble Rema Rema Ary Inc Rema	M=Matrix M=Matrix M=Matrix Urface (F6) Surface (Isions (F8) Ilematic Hy Redox (A10 Se Masses Dark Surface O dicators (B6) 10) Able (C2) Aerial Ima	resent?
Restri	Production	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr (A2) (A3) ide (A4) rs (A5) 10) w Dark Surf rface (A12) observed): Indicators: Prin (A1) able (A2) b) B1) osits (B2) (B3)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color 10YR 5/6 10YR 5/6 tion, RM=Redu Signature Aquat — Hydro — Oxidiz — Prese	ced Matr Hydric Sandy N Sandy N Sandy F Stripped Loamy N Loamy O Depleter at apply Stained ic Fauna Aquatic P agen Sulfi led Rhizo nce of Re	Type C ix, CS Soil II Mucky Cky Pe Bleyed Redox I Matri Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Matri Mucky	Redox Feature Re	**Locati	x Re R	e of incesses of i	Nilicato Rema Nining, Nilicato Rema Nining, Nilicato Dark Problem Problem Repress Re	M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix M=Matrix O Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix M=Matrix Matrix Matrix M=Matrix	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belov Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr In (A2) 3) ide (A4) Irs (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prin (A1) ible (A2)) B1) oosits (B2) (B3) rust (B4) (B5)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color Color 10YR 5/6 10YR 5/6 tion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	ced Matrice Sandy Manager Stripped Loamy Matrice Depleter Stripped Stripped Stripped Loamy Matrice Sandy Matrice Sandy Matrice Sandy Matrice Stripped Stripp	Type C C C Soil In Mucky Cky Pe Redock Redock Mucky Gleyed Matri Mucky Muc	Redox Feature Re	**Locati	ye absence ure CL CL CL CSL Sion: PL=P x Re Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Crayfish Saturatio	e of incesses of i	Midicato Rema Mining, N Mark Su Dark Proble Ary Inc acks (Ins (B acks	getation Poox ox ors.) arks M=Matrix urface (F6) Surface (I6) Sions (F8) Redox (A16) See Masses Oark Surface o dicators B6) 10) Aerial Ima Plants (D1) (D2)	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belov Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr In (A2) 3) ide (A4) Irs (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prin (A1) ible (A2) i) B1) oosits (B2) (B3) rust (B4) (B5) ible on Aeria	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches mary Indicators	color Color 10YR 5/6 10YR 5/6 tion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	ced Matr Hydric Sandy M Sandy G Sandy G Stripped Loamy M Loamy G Depleter	Type C C C Soil In Mucky Cky Pe Redock Redock Mucky Gleyed Matri Mucky Muc	Redox Feature Re	**Locati	ion: PL=P x Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Saturatio Stunted of Geomorp	e of incesses of i	Midicato Rema Mining, N Mark Su Dark Proble Ary Inc acks (Ins (B acks	getation Poox ox ors.) arks M=Matrix urface (F6) Surface (I6) Sions (F8) Redox (A16) See Masses Oark Surface o dicators B6) 10) Aerial Ima Plants (D1) (D2)	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr In (A2) In (A2) In (A2) In (A3) In (A4) In (A5) In (A5) In (A5) In (A6) In (A2) In (A6)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches mary Indicators al Imagery (B7) ave Surface ater Present?	color Color 10YR 5/6 10YR 5/6 tion, RM=Redu Water Aquat True A Hydro Oxidiz Presse Recer Thin N Guage Other Yes	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy N Loamy O Depleted at apply) Stained ic Fauna Aquatic P gen Sulfi ed Rhizo nce of Re I Iron Re Muck Surr e or Well No	Type C Tix, CS Soil II Mucky Cky Pe Redox I Matri Mucky Gleyed Matri Mucky Matri Mu	Redox Feature	res Text Si C Si C ***Locati	x Re De Re Indica Co Iro Ve Otl Ye Se Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of Geomorp FAC-Neu	e of incesses of i	ic Veg Nidicato Rema Aming, Nidicato Dark Bepress Repress Rep	M=Matrix M=Matrix Inface (F6) Surface (I Sions (F8) Ilematic Hy Redox (A10 See Masses Park Surface M=Matrix Inface (F6) Surface (I Sions (F8) I Sions (F8) I Sions (F8) I I I I I I I I I I I I I I I I I I I	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentr (A2) (A3) ide (A4) ide (A4) ide (A4) ide (A4) ifface (A12) observed): Indicators: Prin (A1) idel (A2) i) B1) osits (B2) (B3) rust (B4) (B5) ible on Aeria etated Conce Surface W Water Tab Saturation	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	color Color 10YR 5/6 10YR 5/6 Ition, RM=Redu Signature Aquat Aquat Aquat Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes Yes	ced Matr Hydric Sandy N Sandy N Sandy F Stripped Loamy N Loamy O Deplete at apply Stained ic Fauna Aquatic P gen Sulfi led Rhizo nce of Ro It Iron Re Muck Surre e or Well No No	Type C Tix, CS Soil II Mucky Cky Pe Gleyed Redox I Matri Mucky Gleyed Gleye	Redox Feature	**Locati	ion: PL=P x Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Saturatio Stunted of Geomorp	e of incesses of i	ic Veg Nidicato Rema Aming, Nidicato Dark Bepress Repress Rep	metation Poors.) mrks metation Foors.) mrks metation Foors.) mrks metation Foors. metation Foo	dric Soils (F12) ce (F12) agery (C9)

			WETL	AND DET	ERMIN	IATIC	N FORM-MIDW	EST	REGION	N	
Site:			e-W.Millersport				rfield County	Date:		ch 2024 Data Point	
Client:		AEP	Llalt	_State: OF	Section	n, Towi	nship, Range:			S25, R 16N, R 19W	
Slope	igator(s):	L. Vine, E.		39.834307°	Long.		Landform -82.591561°	Datum	ke Plains NAD83	Local Relief NWI Class:	Concave PEM
		Minster silt	y clay loam, 0 to		Long.		-02.001001	_Datuii	I NADOS		I LIVI
C	limatic/hydrolo	gic condition	ns typical for tim	e of year?	Y/N	Υ					
	Vegetation		,		ydrology		significantly disturbed				
	Vegetation				ydrology	N	naturally problematic				
	ormal Circumsta		ent? Y	'es X	_ No						
JOIVIIV			etation Present?	Yes X	No			1			
	,		ic Soil Present?		_No			Is the	DP within	a Wetland?	
		Vetland Hyd	rology Present?	Yes X	No			Yes	X No		
Remai	rks: TATION										
VEGE	TATION			Absolute %	Dom	inant			1		
Tree S	Stratum_	Plot size:	30'	Cover	Spe		Indicator Statu	S			
1.				OOVCI	Орс	CiCS			l Do	minance Test Worl	csheet
2.					_					f dominant species t	hat
3.					_					FACW, or FAC:	4
4.				·					_	ber of dominant	2
5.										cross all strata:	
Chrub	Stratum	Plot size:	15!	0	_Total C	over				f dominant species t FACW. or FAC:	nat 1.00
1.	Stratum	Piot Size:	15	-					,	ce Index Workshee	. —
2.	-			-			-			% cover of:	•
3.				-					OBL spec		1 80
4.									FACW sp		2 0
5.									FAC spec		
ا مام د	24 marks	Dist size	5 1		_Total C	over			FACU spe		
Herb S	Stratum Scirpus atrovi	Plot size:	5	60	- ,	Y	OBL	1	UPL spec		5 <u>0</u> 140
2.	Apocynum cai			20		<u>'</u> Y	FAC	3	101	Prevalence Inc	
3.	Alisma subcoi			10		<u>. </u>	OBL	1	Hydrophy	tic Vegetation Indi	
4.	Juncus effusu			10		<u></u>	OBL	1		oid Test for Hydrophy	
5.										minance Test is >50°	
6.										valence Index is ≤3.	
7.					_					rphological Adaptatio	
8.				100	Total C	over	-			olematic Hydrophytic Ve	•
Woods	v Vine Stratum	Plot size:	30'		_ Total C	ovei				tors of hydric soil ar	
1.	v vinc otratum	1 101 3120.								logy must be preser	•
2.									1 (disturbed or problem	atic
		_		0	Total C	over				phytic Vegetation	Present?
	Remarks:								Yes	X No	
SOIL	Dr	ofilo Docori	ntion: (Doscril	ho to donth r	noodod te	docui	ment the indicator or	confirm	n absonce	of indicators \	
	Depth		Matrix		ieeueu it	uocui	Redox Featu		ii absence	oi iliulcators.)	
	(inches)	Color	%	Color	%	Type*	Loc**		ture	Remarks	
	0-6	10YR 4/2	100			71		S	SiL		
	6-18	10YR 4/2	95	10YR 7/6	5	С	М	S	SiL		
	*Type: (Concentr	 ation D-Denlet	ion RM-Red	uced Mat	riv CS	=Coated Sand grains	**! 003	tion: PI -Pc	ore Lining, M=Matrix	
	туре.		anon, D-Depiel	, rxivi–ixeu			ndicators:	Loca	1 L-1	no Emmig, ivi–ivialiti	
	Histosol (A1)						Mineral (S1)		X Rec	dox Dark Surface (F6	6)
	Histic Epipedo	n (A2)			5cm Mu	ucky Pe	eat or Peat			oleted Dark Surface	
	Black Histic (A						Matrix (S4)			dox Depressions (F8	
	Hydrogen Sulf				_Sandy I					ors for Problematic H	
	Stratified Laye 2 cm Muck (A	` '			Strippe		x (S6) Mineral (F1)			ast Prairie Redox (A´ n-Manganese Masse	
	Depleted Belo		ace (A11)				Matrix (F2)			y Shallow Dark Surfa	
	Thick Dark Su		400 (711)		_ Deplete				Oth	•	acc (1 12)
Restri	ctive Layer (if		Type:				(* •)		0	01	
			Depth (Inches)	:			Hydric Soil Pro	esent?	Yes	s X No	
	Remarks:										
	OLOGY										
wetia	nd Hydrology		nary Indicators	/obook all ti	not apply	۸.			S 0.0	condary Indicators	
	Surface Water		nary indicators		er Stained		s (RQ)	 		oil Cracks (B6)	
Х	High Water Ta				itic Fauna		3 (D3)			Patterns (B10)	
X	Saturation (A3				Aquatic F		B14)			on Water Table (C2)	
	Water Marks ((B1)		Hydr	ogen Sulf	ide Od	or (C1)		Crayfish E	Burrows (C8)	
	Sediment Dep			Oxidi	zed Rhize	osphere	es on Living Roots		Saturation	Nisible on Aerial Im	
	Drift Deposits						d Iron (C4)			r Stressed Plants (D	1)
	_Algal Mat or C						n in Tilled Soil (C6)	X		nic Position (D2)	
	Iron Deposits		al Imagery (B7)		Muck Su			X	_rac-neut	ral Test (D5)	
	_Inundation vis Sparsely Vege			Othe	ge or Wel r	เ ⊔ลเล ((פט				
Field (Observations:			Yes	No	Х	Depth (inches)				
			le Present?	Yes X	No		Depth (inches)	Hydro	loy Indicat	tors Present?	
		Saturation		Yes X	No		Depth (inches)		Ye		
	be Recorded D dric indicators		guage, monitor	ing well, aeria	ai photos,	previo	us inspections), if avail	able:			

Client:	W. Lancaster	r-S.Baltimore AEP	e-W.Millersport	City/County: State: OH	Section,	Fairfield County Township, Range:	Date:	27 March Sec S	2024 Data Po 25, R 16N, R 19	
	igator(s):	L. Vine, E.		9.834361°		Landforr -82.591594°		e Plains NAD83	Local Relief _ NWI Class:	Convex N/A
Soil M	ap Unit Name:	Minster silt	ty clay loam, 0 to	o 1 percent slo	_Long pes	-62.591594	_ Datum	INADOS	INVVI Class	IN/A
	Vegetation Vegetation	N N	, Soil	N or Hy N or Hy	drology	YN significantly disturbed naturally problematic				
	ormal Circumsta MARY OF FIND	INGS		es <u>x</u>	No _					
	-	Hydr	etation Present? ric Soil Present? rology Present?	Yes		X	Is the I	DP within a No	Wetland?	
Remai	rks: TATION									
	Stratum	Plot size:	30'	Absolute %	Domina	Indicator Stat	us			
1. 2. 3.				Cover	Specie	s		Number of o	ninance Test W dominant specie ACW, or FAC:	
4.								Total numb	er of dominant	 5
	<u>Stratum</u>	Plot size:	15'	0	Total Cove			Percent of one are OBL, F	oss all strata: dominant specie ACW, or FAC:	es that 40.00
1. 2.	Rubus alleghe Acer rubrum	eniensis		<u>5</u> 5	<u> </u>	FACU FAC	3		Index Worksh	
3. 4. 5.								FACW specie	cies 20	x 1 0 x 2 40 x 3 15
_	Stratum	Plot size:		10	Total Cove	er		FACU specie UPL specie	ies <u>85</u>	
1.	Solidago cana	adensis		50	Y	FACU	4	Tota	l 110	395
2. 3.	Schedonorus Dichanthelium			<u>30</u> 20	- <u>Y</u> Y	FACU FACW	2	Hydrophyti	Prevalence ic Vegetation Ir	
4. 5.								Rapid	d Test for Hydro nance Test is >	phytic Veg.
6.								X Preva	alence Index is	<u><</u> 3.0*
7. 8.						<u> </u>			hological Adapta matic Hydrophytic	
Woods	y Vine Stratum	Plot size:	30'	100	Total Cove	er		hydrolo	ors of hydric soil	sent, unless
2.				0	Total Cove	er			sturbed or probl hytic Vegetation	
	Remarks:									
SOIL	Nemarks.							Yes	x No	
SOIL	Pro			pe to depth ne		ocument the indicator or				
SOIL	Depth (inches)	Color	Matrix %		eded to d	ocument the indicator or Redox Feat	ures Text	absence of		
SOIL	Depth (inches)	Color 10YR 3/2	Matrix		eded to d	Redox Feat	ures	absence of	f indicators.)	
SOIL	Depth (inches)	Color	Matrix % 100	Color	eeded to d	Redox Feat	ures Text	absence of	f indicators.)	
SOIL	Depth (inches) 0-12 12-18	Color 10YR 3/2 10YR 4/2	Matrix	Color 10YR 6/6	% T	Redox Feat	Text SiC	ture	f indicators.) Remarks	triv
SOIL	Depth (inches) 0-12 12-18	Color 10YR 3/2 10YR 4/2	Matrix	Color 10YR 6/6	eeded to d % T 5 ced Matrix Hydric S	Redox Feat ype* Loc** C M CS=Coated Sand grains oil Indicators:	Text SiC	ture CL CL CL CL CL CL CL C	f indicators.) Remarks E Lining, M=Mat	
SOIL	Depth (inches) 0-12 12-18	Color 10YR 3/2 10YR 4/2	Matrix	Color 10YR 6/6	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck	Redox Feat ype* Loc** C M CS=Coated Sand grains bil Indicators: cky Mineral (S1) y Peat or Peat	Text SiC	a absence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks	(F6)
SOIL	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2)	Matrix	Color 10YR 6/6	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle	Redox Feat ype* Loc** C M CS=Coated Sand grains bil Indicators: cky Mineral (S1) y Peat or Peat yyed Matrix (S4)	Text SiC	in absence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks e Lining, M=Matex Dark Surfaceeted Dark Surfaceet	(F6) ce (F7) (F8)
SOIL	Property Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2) A3) fide (A4) ers (A5)	Matrix	Color 10YR 6/6	ced Matrix Hydric S Sandy Mu Sandy Gle Sandy Gle Sandy Re Stripped M	Redox Feat ype* Loc** C M CS=Coated Sand grains bil Indicators: cky Mineral (S1) y Peat or Peat yyed Matrix (S4) dox (S5) Matrix (S6)	Text SiC	i absence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks e Lining, M=Matex Dark Surface Dark Surface X Depressions (created bark problemation of the prairie Redox	(F6) ce (F7) (F8) c Hydric Soils (A16)
SOIL	Property Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2) A3) fide (A4) ers (A5) 10)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Ge Sandy Re Stripped N Loamy Mu	Redox Feat ype* Loc** C M CS=Coated Sand grains bil Indicators: cky Mineral (S1) y Peat or Peat yyed Matrix (S4) dox (S5)	Text SiC	i absence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks e Lining, M=Matex Dark Surface eted Dark Surface eted Dark Surface for Problematics	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12)
	Pro Depth (inches) 0-12 12-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Ge Sandy Re Stripped N Loamy Mu	Redox Feat ype* Loc** C	Text SiC	i absence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks e Lining, M=Mat x Dark Surface eted Dark Surface eted Dark Surface its for Problemati t Prairie Redox Manganese Mas Shallow Dark S	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12)
Restri	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6 on, RM=Redu	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped N Loamy Mu Loamy Gle	Redox Feat ype* Loc** C	Text SiC SiC **Locati	i absence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks e Lining, M=Mat x Dark Surface eted Dark Surface eted Dark Surface its for Problemati t Prairie Redox Manganese Mas Shallow Dark S	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12)
Restri	Pro Depth (inches) 0-12 12-18 *Type: 0	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed):	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6 on, RM=Redu	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped N Loamy Mu Loamy Gle	Redox Feat ype* Loc** C M CS=Coated Sand grains bil Indicators: cky Mineral (S1) y Peat or Peat yed Matrix (S4) dox (S5) Matrix (S6) locky Mineral (F1) byed Matrix (F2) Matrix (F3)	Text SiC SiC **Locati	ion: PL=Pore Redo Deple Redo Indicator Coas Iron-f Very Other	f indicators.) Remarks e Lining, M=Mat x Dark Surface eted Dark Surface x Depressions (rs for Problematic t Prairie Redox Manganese Mas Shallow Dark S	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12)
Restri	Pro Depth (inches) 0-12 12-18 *Type: 0	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) by Dark Surfurface (A12) observed): Indicators:	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 on, RM=Redu	ced Matrix Hydric S Sandy Mu Sandy Gle Sandy Re Stripped M Loamy Mu Loamy Gle Depleted I	Redox Feat ype* Loc** C M CS=Coated Sand grains bil Indicators: cky Mineral (S1) y Peat or Peat yed Matrix (S4) dox (S5) Matrix (S6) locky Mineral (F1) byed Matrix (F2) Matrix (F3)	Text SiC SiC **Locati	i absence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks e Lining, M=Mate of the control of the co	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12)
Restri	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY nd Hydrology Surface Water	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentration (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Print (A1)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6 on, RM=Redu	ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped N Loamy Mu Loamy Gle Depleted I	Redox Feat ype* Loc** C	Text SiC SiC ***Locati	ion: PL=Pore Redo Deple Redo Indicator Coas Iron-P Very Other Yes Seco	f indicators.) Remarks e Lining, M=Mate of the content of the co	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12)
Restri	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra On (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Print r (A1) able (A2)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 on, RM=Redu (check all the Water Aquati	ced Matrix Hydric S Sandy Mu Sandy Gle Sandy Gle Sandy Re Stripped M Loamy Mu Loamy Gle Depleted I	Redox Feat ype* Loc** C	Text SiC SiC ***Locati	ion: PL=Pore Redo Deple Redo Indicator Coas Iron-f Very Other Yes Seco	f indicators.) Remarks e Lining, M=Matex Dark Surface eted eted eted eted eted eted eted et	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12) X
Restri HYDR Wetla	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentric on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) 8) (B1)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 on, RM=Redu on, RM=Redu (check all the Water Aquat True A Hydro	ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped N Loamy Mu Loamy Mu Loamy Gle Depleted I	Redox Feat ype* Loc** C	Text SiC SiC **Locati	ion: PL=Pore Redo Deple Redo Indicator Other Yes Seco Surface Soi Drainage Pa Dry-Season Crayfish Bu	f indicators.) Remarks e Lining, M=Mate x Dark Surface eted Dark Surface eted Dark Surface refor Problematic t Prairie Redox Manganese Mas Shallow Dark S No I Cracks (B6) atterns (B10) n Water Table (Currows (C8)	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12) X
Restri HYDR Wetla	Property Depth (inches) 0-12 12-18 1	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentri con (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) B) (B1) cosits (B2) (B3)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 on, RM=Redu on, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Prese	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped M Loamy Mu Loamy Gle Depleted I at apply) Stained Le ic Fauna (E ic Fauna	Redox Feat ype* Loc** C	resent?	ion: PL=Pore Redo Deple Redo Indicator Coas Iron-I Very Othel Yes Seco Surface So Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S	f indicators.) Remarks E Lining, M=Mate E Lin	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12) X
Restri HYDR Wetla	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentric on (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) B) (B1) oosits (B2) (B3) Crust (B4)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 on, RM=Redu on, RM=Redu (check all th Water Aquat True A Hydro Oxidiz Prese Recer	ced Matrix Hydric S Sandy Mu Sandy Gle Sandy Re Stripped M Loamy ML Loamy ML Loamy Gle Depleted I at apply) Stained Le c Fauna (E quatic Pla gen Sulfide ed Rhizosp nce of Red at Iron Red at Iron Red	Redox Feat ype* Loc** C	resent?	ion: PL=Pore Redo Deple Redo Indicator Coas Iron-I Very Othel Yes Seco Surface So Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S	f indicators.) Remarks e Lining, M=Mate Ex Dark Surface Ex Depressions (Is for Problemative t Prairie Redox Manganese Mas Shallow Dark S Mo Indicator Indi	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12) X
Restri HYDR Wetla	Property Depth (inches) 0-12 12-18 1	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentration (A2) A3) Gide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Print r (A1) able (A2) B) (B1) cosits (B2) (B3) crust (B4) (B5) sible on Aeria	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators	Color 10YR 6/6 on, RM=Redu on, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage	eeded to d % T 5 ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped M Loamy Mu Loamy Gle Depleted I at apply) Stained Le ic Fauna (E ic Fauna	Redox Feat ype* Loc** C	resent?	rabsence of ture CL CL CL CL CL CL CL C	f indicators.) Remarks e Lining, M=Mate Ex Dark Surface Ex Depressions (Is for Problemative t Prairie Redox Manganese Mas Shallow Dark S Mo Indicator Indi	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12) X
Restri HYDR Wetla	Property Depth (inches) 0-12 12-18 1	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Print r (A1) able (A2) B) (B1) oosits (B2) (B3) crust (B4) (B5) sible on Aeria etated Conca Surface W	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present?	Color 10YR 6/6 on, RM=Redu on, RM=Redu Check all the Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other Yes	ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped N Loamy Mu Loamy Gle Depleted I stained Le ced Red ded Rhizosp nace of Red fuck Surface or Well D	Redox Feat ype* Loc** C	resent?	ion: PL=Pore Redo Deple Redo Indicator Coas Iron-f Very Other Yes Seco Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	f indicators.) Remarks E Lining, M=Mate and the second of the second o	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12) X
Restri HYDR Wetla	Property (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer (if Nemarks: 0LOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or Clron Deposits Inundation Vis Sparsely Vege	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Print r (A1) able (A2) B) (B1) oosits (B2) (B3) crust (B4) (B5) sible on Aeria etated Conca Surface W	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present? le Present?	Color 10YR 6/6 on, RM=Redu on, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other	ced Matrix Hydric S Sandy Mu 5cm Muck Sandy Gle Sandy Re Stripped N Loamy Mu Loamy Gle Depleted I stained Le ced Red ded Rhizosp nace of Red fuck Surface or Well D	Redox Feat ype* Loc** C	resent?	ion: PL=Pore Redo Deple Redo Indicator Coas Iron-f Very Other Yes Seco Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation \ Stunted or S Geomorphic FAC-Neutra	f indicators.) Remarks e Lining, M=Mate Ex Dark Surface Ex Depressions (Is for Problemative t Prairie Redox Manganese Mas Shallow Dark S Mo Indicator Indi	(F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12) X

Slope	igator(s): (%):	AEP L. Vine, E.I 1-3	Holt Lat. 3	State: OH 39.822005°	Long.		ield County nship, Range: Landform -82.597640°	Date: Till Datum:	Sec S Plains	2024 Data Point S1, T 15N, R 19W Local Relief NWI Class:	Concave PEM
С	ap Unit Name: Climatic/hydrolog Vegetation Vegetation ormal Circumsta	gic condition N N	, Soil	e of year? N or Hy	Y/N drology drology		significantly disturbe naturally problemation				
	IARY OF FINDI	NGS	etation Present?	-	No						
		Hydr	ric Soil Present? Irology Present?	Yes X	No No	<u> </u>		Is the I Yes	OP within a	Wetland?	
VEGE	TATION										
1. 2. 3.	stratum_	Plot size:		Absolute % Cover	Domi Spec		Indicator Stat		Number of	ninance Test Work dominant species to ACW, or FAC:	
4. 5.									Total numb	er of dominant oss all strata:	5
<u>Shrub</u> 1. 2.		Plot size:		0	Total Co	over			Percent of of are OBL, Farevalence	dominant species the ACW, or FAC: Index Worksheet 6 cover of:	60.00
3. 4.									FACW spec	cies <u>30</u> x 2	2 60
5. Herb S	Stratum_	Plot size:	5'	0	Total Co	over			FAC specie FACU spec UPL specie	cies 14 x 4	4 56
1. 2.	Juncus effusus Dichanthelium	S		40 30	- <u>Y</u>	<u>/</u>	OBL FACW	1 2	Tota		120
3.	Solidago canad	densis	<u> </u>	10	<u></u>		FACU	4		ic Vegetation Indic	cators:
4. 5.	Elymus canade Carex molesta			4	N		FACU FAC	4		d Test for Hydrophy inance Test is >50%	
6. 7.						<u>` </u>			x Preva	alence Index is <u><</u> 3.0 hological Adaptatio)* :ns*
8.				85	Total Co	over			Proble	ematic Hydrophytic Ve ors of hydric soil an	getation*
1.	Vine Stratum	Plot size:	30'						hydrolo	ogy must be presen sturbed or problem	t, unless
2.											
	- J -			0	Total Co	over	-		Hydrop	ohytic Vegetation I	
	Remarks:			-					Hydrop Yes	X No	
	Prof			-			ent the indicator or Redox Feat		Hydrop Yes	X No	
	Prof Depth (inches)	Color	Matrix %	e to depth nee	eded to	docume	Redox Feat	tures Text	Hydrop Yes n absence	X No	
	Prof Depth		Matrix %	e to depth nee	eded to	docum	Redox Feat	ures	Hydrop Yes n absence	X No of indicators.)	
	Prof Depth (inches)	Color	Matrix %	e to depth nee	eded to	docume	Redox Feat	tures Text	Hydrop Yes n absence	X No of indicators.)	
	Prof Depth (inches) 0-18	Color 10YR 4/2	Matrix % 90	Color 10YR 5/4	% 10	docume Type* C	Redox Feat	tures Texto SiC	Hydrop Yes n absence oure	X No of indicators.)	Present?
	Prof Depth (inches) 0-18 *Type: C=	Color 10YR 4/2	Matrix % 90	Color 10YR 5/4	% 10 10 eed Matri:	Type* C ix, CS=0	Redox Feat Loc** M Coated Sand grains	tures Texto SiC	Hydrop Yes n absence of	X No of indicators.) Remarks ore Lining, M=Matrix	Present?
	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol	Color 10YR 4/2 	Matrix % 90	Color 10YR 5/4	eded to 6 % 10 ed Matri: Hydric \$ Sandy N 5cm Mu	docume Type* C ix, CS=C Soil Ind Mucky N ucky Pe	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat	tures Texto SiC	Hydrop Yes n absence of the second s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (Present?
	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A	Color 10YR 4/2 =Concentrat	Matrix % 90	Color 10YR 5/4	eded to 6 % 10 ed Matri: Hydric S Sandy N 5cm Mu Sandy O	docume Type* C ix, CS=C Soil Ind Mucky N ucky Pe	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4)	tures Texto SiC	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8)	Present?
	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Layer	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5)	Matrix % 90	Color 10YR 5/4	eded to o	Type* C ix, CS=C Soil Ind Mucky N ucky Per Gleyed I Redox (i	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) c (S6)	tures Texto SiC	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (F8) rs for Problematic Hy st Prairie Redox (A1)	Present?
	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Laye 2 cm Muck (A1)	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5)	Matrix % 90 tion, D=Depletio	Color 10YR 5/4	eded to 6 % 10 ed Matri Hydric S Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C	Type* C Soil Ind Mucky N ucky Per Gleyed I Redox (d Matrix Mucky I	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1)	tures Texto SiC	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy st Prairie Redox (A1 Manganese Masse	Present?
SOIL	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur	Color 10YR 4/2 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surf- rface (A12)	Matrix % 90 tion, D=Depletio	Color 10YR 5/4	eded to 6 % 10 ed Matri Hydric S Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C	docume Type* C ix, CS=C Soil Ind Mucky N ucky Per Gleyed I Redox (i d Matrix Mucky I Gleyed	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) c (S6) Mineral (F1) Matrix (F2)	tures Texto SiC	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (xx Depressions (F8) rs for Problematic Hy st Prairie Redox (A1 Manganese Masse: Shallow Dark Surface	Present?
SOIL	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belox Thick Dark Sur ctive Layer (if	Color 10YR 4/2 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surf- rface (A12)	Matrix % 90 tion, D=Depletio	Color 10YR 5/4	eded to 6 % 10 ed Matri Hydric \$ Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C	docume Type* C ix, CS=C Soil Ind Mucky N ucky Per Gleyed I Redox (i d Matrix Mucky I Gleyed	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) c (S6) Mineral (F1) Matrix (F2)	**Loca	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (xx Depressions (F8) rs for Problematic Hy st Prairie Redox (A1 Manganese Masse: Shallow Dark Surface	Present?
SOIL	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedor Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur ctive Layer (if o	n (A2) 3) ide (A4) rs (A5) io) w Dark Surfrface (A12) observed):	Matrix % 90 tion, D=Depletio	Color 10YR 5/4	eded to 6 % 10 ed Matri Hydric \$ Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C	docume Type* C ix, CS=C Soil Ind Mucky N ucky Per Gleyed I Redox (i d Matrix Mucky I Gleyed	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) c (S6) Mineral (F1) Matrix (F2) x (F3)	**Loca	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy st Prairie Redox (A1 Manganese Masse: Shallow Dark Surfar	Present?
SOIL	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur ctive Layer (if o	n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrace (A12) observed): ndicators:	Matrix % 90 tion, D=Depletio face (A11) Type: Depth (Inches):	color Color 10YR 5/4	eded to 6 % 10 ed Matri Hydric \$ Sandy N Sandy (Sandy (Sandy (Sandy (C S C S C S C S C S C S C S C S C S C	Type* C ix, CS=C Soil Ind Mucky N ucky Per Gleyed I Redox (d Matrix Mucky I Gleyed ed Matrix	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) c (S6) Mineral (F1) Matrix (F2) x (F3)	**Loca	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy st Prairie Redox (A1 Manganese Masse: Shallow Dark Surfar	Present?
SOIL Restri HYDR Wetlan	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedor Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur ctive Layer (if of Remarks: OLOGY nd Hydrology In	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12) observed): ndicators: Prime (A1)	Matrix % 90 tion, D=Depletio	check all that	eded to 6 % 10 ed Matri Hydric \$ Sandy N 5cm Mu Sandy C Sandy C Sandy D Loamy I Loamy I Deplete	docume Type* C ix, CS=(Soil Ind Mucky N ucky Per Gleyed I Redox (i d Matrix Mucky I Gleyed d Matrix	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Pi	**Loca	Hydrop Yes n absence of the second of the s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (F8 eted Dark Surface (A1 Manganese Masse: Shallow Dark Surfa X No ondary Indicators il Cracks (B6)	Present?
SOIL	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur ctive Layer (if of Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3)	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrace (A12) observed): ndicators: Primation (A1) ble (A2)	Matrix % 90 tion, D=Depletio face (A11) Type: Depth (Inches):	check all that Water Aquati True A	eded to 6 % 10 10 ed Matri: Hydric \$ Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy I Loamy 0 Deplete t apply) Stained ic Fauna	docume Type* C ix, CS=C Soil Ind Mucky N ucky Per Gleyed I Redox (i) d Matrix Mucky N Gleyed d Matrix Mucky N Gleyed d Matrix	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Pi s (B9) B14)	**Loca	Hydrop Yes n absence of the second of the s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (x Depressions (F8) rs for Problematic Hy st Prairie Redox (A1 Manganese Masse: Shallow Dark Surfar X No ondary Indicators il Cracks (B6) atterns (B10) on Water Table (C2)	Present?
SOIL Restri HYDR Wetlan	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur ctive Layer (if of Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3) Water Marks (I	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) if(0) w Dark Surfirface (A12) observed): ndicators: Prima (A1) ble (A2)) B1)	Matrix % 90 tion, D=Depletio face (A11) Type: Depth (Inches):	check all that Water Aquati True A Hydrog	eded to 6 % 10 ed Matri Hydric \$ Sandy N 5cm Mu Sandy C Strippec Loamy (Loamy (Deplete t apply) Stained ic Fauna Aquatic F gen Sulfi	Type* C ix, CS=C Soil Ind Mucky N ucky Pe Gleyed I Redox (i d Matrix Mucky I Gleyed d Matrix Mucky I Gleyed d Matrix File Gleyed d Matrix Mucky I Gleyed d Matrix	Redox Feat Loc** M Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Pi s (B9) B14) or (C1)	**Loca	Hydrop Yes n absence of the second of the s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (bx Depressions (F8) rs for Problematic Hy st Prairie Redox (A1 Manganese Masse: Shallow Dark Surfar X No ondary Indicators il Cracks (B6) atterns (B10) on Water Table (C2) arrows (C8)	Present?
SOIL Restri HYDR Wetlan	Prof Depth (inches) 0-18 *Type: C= Histosol (A1) Histic Epipedol Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur ctive Layer (if of Remarks: OLOGY nd Hydrology I Surface Water Ta Saturation (A3) Water Marks (if Sediment Depo	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfirface (A12) observed): ndicators: Prima (A1) ble (A2) bl) B1) osits (B2) (B3)	Matrix % 90 tion, D=Depletio face (A11) Type: Depth (Inches):	check all that Water Aquati True A Hydrog Oxidiz Presei	eded to o % 10 10 ed Matri. Hydric \$ Sandy N 5cm Mu Sandy C Sandy F U Sandy C Sandy F Stripped Loamy C Loam	docume Type* C ix, CS=C Soil Ind Mucky N ucky Pe Gleyed I Redox (i d Matrix Mucky I Gleyed ad	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Peat S (B9) B14) Dr (C1) es on Living Roots I Iron (C4)	**Loca	Hydrop Yes n absence of the second of the s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy at Prairie Redox (A1 Manganese Masses Shallow Dark Surfar X No ondary Indicators il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (D'	Present? (C) (C) (F7) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
SOIL Restri HYDR Wetlan	Prof Depth (inches) 0-18 *Type: C= *Type: C= Histosol (A1) Histic Epipedor Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Belov Thick Dark Sur ctive Layer (if or Remarks: OLOGY Ind Hydrology I Surface Water High Water Ta Saturation (A3) Water Marks (I Sediment Depo Drift Deposits (I Algal Mat or Ci	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) io) w Dark Surfiface (A12) observed): ndicators: Prim: (A1) ble (A2) B1) osits (B2) (B3) rust (B4)	Matrix % 90 tion, D=Depletio face (A11) Type: Depth (Inches):	check all that Water Aquati True A Hydrog Oxidiz Preset Recen	eded to o % 10 10 ed Matri. Hydric \$ Sandy N 5cm Mu Sandy F Stripped Loamy I Loamy 0 Deplete t apply) Stained ic Fauna Aquatic F gen Sulfi ted Rhizz nce of Ro at Iron Re	docume Type* C ix, CS=C Soil Ind Mucky N Locky Pel Gleyed I Redox (I d Matrix Mucky I Gleyed ded Matrix Mucky I Gleyed d	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Peat S (B9) B14) or (C1) s on Living Roots I Iron (C4) n in Tilled Soil (C6)	**Loca	Hydrop Yes n absence of the second of the s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy at Prairie Redox (A1 Manganese Masses Shallow Dark Surfar X No ondary Indicators il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (Di c Position (D2)	Present? (C) (F7) (ydric Soils 6) (s (F12) (Acce (F12)) agery (C9)
SOIL Restri HYDR Wetlan	Prof Depth (inches) 0-18 *Type: C= *Type: C= Histosol (A1) Histic Epipedor Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Below Thick Dark Sur ctive Layer (if of Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3) Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Visi	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12) observed): ndicators: Primate (A1) ble (A2) ble (A2) cosits (B2) (B3) rust (B4) (B5) ible on Aeria	Matrix % 90 tion, D=Depletion Type: Depth (Inches): ary Indicators (check all that Water Aquati True A Hydrog Couge Recen Thin M Guage	eded to o % 10 10 ed Matri. Hydric \$ Sandy N 5cm Mu Sandy C Sandy F U Sandy C Sandy F Stripped Loamy C Loam	docume Type* C ix, CS=C Soil Ind Mucky N Gleyed I Redox (I d Matrix Mucky I Gleyed	Redox Feat Loc** M Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) c (S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Professor (C1) ss on Living Roots I Iron (C4) n in Tilled Soil (C6) E7)	**Loca	Hydrop Yes n absence of the second of the s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy at Prairie Redox (A1 Manganese Masses Shallow Dark Surfar X No ondary Indicators il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (Di c Position (D2)	Present? (C) (F7) (ydric Soils 6) (s (F12) (Acce (F12)) agery (C9)
Restri HYDR Wetlan	Prof Depth (inches) 0-18 *Type: C= *Type: C= Histosol (A1) Histic Epipedor Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Below Thick Dark Sur ctive Layer (if of Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3) Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Visi Sparsely Vege	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12) observed): ndicators: Primition (A1) ble (A2) ble (A2) cosits (B2) (B3) rust (B4) B5) ible on Aeria tated Conce	Matrix % 90 tion, D=Depletio Type: Depth (Inches): ary Indicators (al Imagery (B7) ave Surface	check all that Water Aquati True A Hydrog Oxidic Presee Recen Thin M Guage Other	eded to 6 % 10 ed Matri Hydric S Sandy N Sandy C Sa	docume Type* C Soil Ind Mucky N ucky Per Gleyed I Redox (I d Matrix Mucky I Gleyed ed Matrix Mucky I Gleyed ed Matrix C Gleyed ed Matrix Mucky I Gleyed ed Matrix I Leaves a (B13) Plants (E ide Odc osphere eductior face (C I Data (I	Redox Feat Loc** M Coated Sand grains licators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Pi s (B9) B14) or (C1) so on Living Roots Ilron (C4) n in Tilled Soil (C6) E7) D9)	**Loca	Hydrop Yes n absence of the second of the s	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy at Prairie Redox (A1 Manganese Masses Shallow Dark Surfar X No ondary Indicators il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (Di c Position (D2)	Present? (C) (F7) (ydric Soils 6) (s (F12) (Acce (F12)) agery (C9)
Restri HYDR Wetlan	Prof Depth (inches) 0-18 *Type: C= *Type: C= Histosol (A1) Histic Epipedor Black Histic (A Hydrogen Sulfi Stratified Layer 2 cm Muck (A1 Depleted Below Thick Dark Sur ctive Layer (if of Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3) Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Visi	Color 10YR 4/2 =Concentrat n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrace (A12) observed): ndicators: Primation (A1) ble (A2) ble (A2) ble (A2) ible on Aeria tated Conca Surface W.	Matrix % 90 tion, D=Depletio tion, D=Depletio ary Indicators (al Imagery (B7) ave Surface ater Present? le Present?	check all that Water Aquati True A Hydrog Couge Recen Thin M Guage	eded to o % 10 ed Matri Hydric \$ Sandy N Sandy (Sandy C San	docume Type* C ix, CS=C Soil Ind Mucky N Gleyed I Redox (I d Matrix Mucky I Gleyed	Redox Feat Loc** M Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) c (S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Professor (C1) ss on Living Roots I Iron (C4) n in Tilled Soil (C6) E7)	**Loca **Loca **X X X	Hydrop Yes n absence of the control	X No of indicators.) Remarks ore Lining, M=Matrix ox Dark Surface (F6 eted Dark Surface (ox Depressions (F8) rs for Problematic Hy at Prairie Redox (A1 Manganese Masses Shallow Dark Surfar X No ondary Indicators il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Im Stressed Plants (Di c Position (D2)	Present? (C) (C) (F7) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C

Site:			re-W.Millersport				irfield County	Date:	27 March 2024		t: <u>UPL-68</u>
Client:	igator(s):	AEP L. Vine, E.	.Holt	_State: OH	_Sectio	n, Tow	nship, Range: Landform	Ti		15N, R 19W al Relief	Convex
Slope	(%):		Lat. 3	39.822032°	Long.		-82.597449°	Datum		/I Class:	N/A
Soil M	ap Unit Nar `limatic/byd	ne: <u>Benningto</u>	n silt loam, 0 to a	2 percent slop	es Y/N	Υ					
	Vegeta	tion N	, Soil	N or Hy	drology	N	significantly disturbed				
A N.I.	Vegeta	tion N	_ , Soil		drology	N	naturally problematic				
	inal Circui	nstances Prese NDINGS	ent? Y	'es <u>x</u>	_ No		-				
		drophytic Veg	etation Present?		No	Χ	-				
		, .	ric Soil Present? drology Present?		_No No	X	-	Is the Yes	DP within a Wetl		
		vv chand r ryc	arology i resent:	163	INO			1163	NO X		
VEGE	TATION			Absolute %	Dom	inant					
Tree S	Stratum	Plot size:	30'	Cover	Spe		Indicator Statu	S			
1.										ce Test Worl	
2. 3.	_			-					Number of dominare OBL, FACW	•	that 2
3. 4.									Total number of		4
5.					-				species across a		
Shrub	Stratum	Plot size:	15'	0	_Total C	over			Percent of domir are OBL, FACW	•	50.00
1.	Rubus alle			10		′	FACU	4	Prevalence Inde	ex Workshee	t
2. 3.									Total % cove OBL species	er <u>of:</u> 1 x	1 1
3. 4.					-				FACW species	$\frac{1}{0}$ x	
5.				- 10					FAC species	50 x	3 150
Herb S	Stratum	Plot size:	5'	10	_Total C	over			FACU species UPL species	40 x	
1.	Juncus ter	uis		50		′	FAC	3	Total	91	311
2.	Solidago d	anadensis ichum ericoide		20 10		<u> </u>	FACU	4		revalence Inc	
3. 4.	Symphyou	icrium encoide		10		1	FACU	4	Hydrophytic Ve Rapid Tes	getation indi	
5.							-		Dominanc	e Test is >50	%
6. 7.										e Index is <3. gical Adaptatio	
8.										Hydrophytic V	
\^/ = = =l-	. \ /: Ct==t	Diet eine	201	80	_Total C	over			*Indicators of	hydric soil ar	nd wetland
1.	v vine Strat	um_ Plot size:	30						, ,,	ust be preser	•
2.				-					disturb	ed or problem	natic
					T-4-1 C		· -		Llyrdronby#ia	Vanatation	Dracant?
	Remarks:			0	Total C	over			Hydrophytic Yes	Vegetation	Present? X
	Remarks:	Profile Descr	intion: /Descri				ment the indicator or	confirm	Yes	No 2	
	Remarks:		Matrix	be to depth ne	eeded to	o docu	ment the indicator or Redox Featu		Yes nabsence of indi	No 2	
	Depth (inches) Color	Matrix %	oe to depth ne	eeded to	docu	Redox Featu	res Tex	Yes n absence of indi	No 2	
	Depth		Matrix %	be to depth ne	eeded to	o docu	Redox Featu	ires	Yes n absence of indi	No 2	
	Depth (inches) Color	Matrix %	oe to depth ne	eeded to	docu	Redox Featu	res Tex	Yes n absence of indi	No 2	
	Depth (inches) Color	Matrix %	oe to depth ne	eeded to	docu	Redox Featu	res Tex	Yes n absence of indi	No 2	
	Depth (inches 0-18) Color 10YR 4/2	Matrix % 90	Color 10YR 5/4	eeded to	Type	Redox Featu	Tex Sid	Yes n absence of inditure RCL	No 2 icators.)	X
	Depth (inches 0-18	Color 10YR 4/2 10YE 4/2	Matrix % 90	Color 10YR 5/4	% 10 10 Iced Mat	Type C C rix, CS	Redox Featu * Loc** M =Coated Sand grains ndicators:	Tex Sid	Yes n absence of inditure RCL tion: PL=Pore Lini	No Sicators.) Remarks	X
	Depth (inches 0-18 *Tyr	Color 10YR 4/2 10YE 4/2 10e: C=Concentr	Matrix % 90	Color 10YR 5/4	% 10 10 Iced Mat	Type C C rix, CS	Redox Featu * Loc** M S=Coated Sand grains	Tex Sid	Yes n absence of indi ture R CL tion: PL=Pore Lini X Redox Dai	No Sicators.) Remarks	K
	Depth (inches 0-18 *Typ Histosol (A Histic Epip Black Histi	De: C=Concenture 1) edon (A2) c (A3)	Matrix % 90	Color 10YR 5/4	eeded to % 10 loced Mat Hydric Sandy I 5cm Mu Sandy (Type C Crix, CS Soil I Mucky Jucky P Gleyec	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4)	Tex Sid	Yes n absence of indi ture R CL tion: PL=Pore Lini X Redox Da Depleted I Redox De	No Sicators.) Remarks Ing, M=Matrix rk Surface (Fourth Surface pressions (F8)	6) (F7)
	Depth (inches 0-18 *Typ Histosol (A Histic Epip Black Histi Hydrogen	Dec C=Concentro 1) edon (A2) c (A3) Sulfide (A4)	Matrix % 90	Color 10YR 5/4	eeded to % 10 10 Icced Mat Hydric Sandy I 5cm Mu Sandy I 5andy I	Type C Crix, CS Soil I Mucky Jucky P Gleyec Redox	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5)	Tex Sid	Yes n absence of inditure CL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for	No Sicators.) Remarks Ing, M=Matrix rk Surface (For Dark Surface pressions (F8 Problematic H	6) (F7) s)
	Depth (inches 0-18 *Typ Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Muck	1) Color 10YR 4/2 De: C=Concentr 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) (A10)	Matrix % 90 ration, D=Deplet	Color 10YR 5/4	eeded to % 10 10 Icced Mat Hydric Sandy I Sandy (Sand	Type C C crix, CS Soil I Mucky Jcky P Gleyec Redox d Matr Mucky	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1)	Tex Sid	Yes n absence of indi ture RCL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Pra Iron-Mang	No Sicators.) Remarks Ing, M=Matrix Ing, M=Matrix	6) (F7) 8) lydric Soils 16) es (F12)
	Depth (inches 0-18 *Typ Histosol (A Histic Epipt Black Histi Hydrogen Stratified L 2 cm Muck Depleted E	De: C=Concentral (A2) cc (A3) Sulfide (A4) ayers (A5) (A10) Sulfide (A4) ayers (A5) (A10) Sulfide (A40) ayers (A50) (A10) Sulfide (A40) Surious (A50) (A50) Sulfide (A40) Surious (A50) Surious (A	Matrix % 90 ration, D=Deplet	Color 10YR 5/4	eeded to % 10 Iced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy	Type C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Tex Sid	Tyes n absence of indi ture RCL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Pra Iron-Mang Very Shall	No Sicators.) Remarks Ing, M=Matrix Instruction of the control o	6) (F7) 8) lydric Soils 16) es (F12)
SOIL	Depth (inches 0-18 *Tyg Histosol (A Histic Epip Black Histic Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark	De: Celor 10YR 4/2 10e: C=Concentr 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) (A10) lelow Dark Surf Surface (A12)	Matrix % 90 ration, D=Deplet	Color 10YR 5/4	eeded to % 10 10 Icced Mat Hydric Sandy I Sandy (Sand	Type C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Tex Sid	Yes n absence of indi ture RCL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Pra Iron-Mang	No Sicators.) Remarks Ing, M=Matrix Ing, M=Matrix	6) (F7) 8) lydric Soils 16) es (F12)
SOIL	*Tyr Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark	De: C=Concentral (A2) cc (A3) Sulfide (A4) ayers (A5) (A10) Sulfide (A4) ayers (A5) (A10) Sulfide (A40) ayers (A50) (A10) Sulfide (A40) Surious (A50) (A50) Sulfide (A40) Surious (A50) Surious (A	Matrix % 90 ration, D=Deplet	Color 10YR 5/4	eeded to % 10 Iced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy	Type C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	res Tex Sid	Tyes n absence of indi ture RCL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Pra Iron-Mang Very Shall	No Sicators.) Remarks Ing, M=Matrix Ing, M=Matrix	6) (F7) 8) lydric Soils 16) es (F12)
SOIL	Depth (inches 0-18 *Tyg Histosol (A Histic Epip Black Histic Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark	De: Celor 10YR 4/2 10e: C=Concentr 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) (A10) lelow Dark Surf Surface (A12)	Matrix % 90 ration, D=Deplet face (A11) : Type:	Color 10YR 5/4	eeded to % 10 Iced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy	Type C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	res Tex Sid	Tyes n absence of indicature ECL Stion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Prai Iron-Mang Very Shall Other	No Sicators.) Remarks Ing, M=Matrix Ing, M=Matrix	6) (F7) 8) lydric Soils 16) es (F12)
SOIL	*Tyr Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark ctive Layer Remarks: OLOGY	De: C=Concenti 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed):	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	Color 10YR 5/4 ion, RM=Redu	eeded to % 10 Loced Mat Hydric Sandy I Sandy I Sandy I Strippe Loamy Loamy Deplete	Type C C Irix, CS Soil I Mucky Jucky P Gleyec Redox d Matr Mucky Gleyec d Matr	Redox Feature Re	res Tex Sid	Yes n absence of inditure CL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Prai Iron-Mang Very Shall Other Yes X	No Sicators.) Remarks Ing, M=Matrix Ing, M=	6) (F7) 8) lydric Soils 16) es (F12)
SOIL	Depth (inches 0-18 *Typ Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo	De: C=Concenti 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) (A10) lelow Dark Surface (A12) (if observed):	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	Color 10YR 5/4 ion, RM=Redu	eeded to % 10 Icced Mat Hydric Sandy I School Sandy I Strippe Loamy Loamy Deplete at apply	Type C Tix, CS Soil I Mucky Jucky P Gleyec Redox Mucky Gleyec d Matr Mucky Gleyec d Matr	Redox Feature Re	res Tex Sid	Yes n absence of indi ture RCL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Pra Iron-Mang Very Shall Other Yes X Secondar	No Sicators.) Remarks Ing, M=Matrix Ing, M=Matrix	6) (F7) 8) lydric Soils 16) es (F12)
SOIL	*Type Histosol (A Histic Epipe Black Histi Epipe	c (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): gy Indicators: Prinater (A1) r Table (A2)	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	color Color 10YR 5/4 ion, RM=Redu ion, RM=Redu ion, RM=Redu Water Aquat	eeded to % 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C Trix, CS Soil I Mucky P Gleyec Redox d Matri Mucky Gleyec d Matri	Redox Feature Re	res Tex Sid	ture RCL Redox Dale Depleted I Redox Dep	No Sicators.) Remarks Ing, M=Matrix Rk Surface (Ficators Surface (Ficators) Remarks Remarks Ing, M=Matrix Rk Surface (Ficators) Remarks Remarks Ing, M=Matrix Rk Surface (Ficators) Remarks Ing, M=Matrix Rk Surface (Ficators) Remarks Ing, M=Matrix Remarks Ing, M=Matrix Remarks Ing, M=Matrix Remarks Ing, M=Matrix Ing, M=Ma	6) (F7) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S
SOIL	*Tys *Tys Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Mucl Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation	c (A3) Sulfide (A4) ayers (A5) (A10) Elelow Dark Surface (A12) (if observed): gy Indicators: Prinater (A1) r Table (A2) (A3)	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu Check all th Water Aquat True A	eeded to % 10 10 Inceed Material Hydric Sandy Inceed Material San	Type C Trix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec d Matr Leave (B13) Plants	Redox Feature Re	res Tex Sid	ture RCL Redox Dan Depleted I Redox Depleted I Redox Depleted I Roman Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat	No Sicators.) Remarks Ing, M=Matrix Rk Surface (Fit) Dark Surface pressions (Fit) Problematic Hirie Redox (At) anese Masse ow Dark Surface ow Dark Surface (Fit) No Ty Indicators cks (B6) Ins (B10) Iter Table (C2)	6) (F7) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S
SOIL	*Tyr Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Mucl Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation Water Mar	c (A10) c (A12) c (A10) c (A3) c (A10) c (A3) c (A10)	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	color 10YR 5/4 ion, RM=Redu ion, RM=Redu ion Aquat True Aquat Hydro	sandy (Sandy In Sandy	Type C Tix, CS Soil I Mucky Jucky P Gleyec Redox d Matr Mucky Gleyec d Matr Mucky Mucky Gleyec d Matr Mucky Mucky Mucky Gleyec d Matr Mucky Muck	Redox Feature Re	res Tex Sid	Tyes n absence of inditure ture CL tion: PL=Pore Lini X Redox Dal Depleted I Redox De Indicators for Coast Prai Iron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Crayfish Burrows	No Sicators.) Remarks	6) (F7) s) lydric Soils 16) ss (F12) ace (F12)
SOIL	*Tyr Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation Water Mar Sediment Drift Depos	c (A12) gy Indicators: Pricater (A1) r Table (A2) (A3) gy Indicators: Pricater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu General the Water Aquat True A Hydro Oxidiz Prese	eeded to % 10 Loced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ged Rhize nce of R	Type C Type C Tix, CS Soil I Mucky Joky P Gleyec Redox d Matr Mucky Gleyec d Matr Mucky Mucky	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pro es (B9) (B14) for (C1) es on Living Roots d Iron (C4)	res Tex Sid	Yes n absence of indi ture RCL tion: PL=Pore Lini X Redox Dal Depleted I Redox Del Indicators for Coast Prai Iron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Stunted or Stres	No Sicators.) Remarks Ing, M=Matrix Ing, M=	6) (F7) s) lydric Soils 16) ss (F12) ace (F12)
SOIL	Depth (inches 0-18 *Typ Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation Water Mar Sediment Drift Depo	c (A12) gy Indicators: Pricater (A1) (A3) gy Indicators: Pricater (A1) (A3) (A3) (A4) (A4) (A4) (A5) (A10) (Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer	eeded to % 10 Iced Mat Hydric Sandy I Sandy I Stripper Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ted Rhiz nce of R nt Iron Ro	Type C Type C Tix, CS Soil I Mucky Gleyec Redox d Matr Mucky Gleyec d Matr	Redox Feature	res Tex Sid	Tyes n absence of inditure ture CL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Prailer Iron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	No icators.) Remarks Ing, M=Matrix Ing, M=Matri	6) (F7) s) lydric Soils 16) ss (F12) ace (F12)
SOIL	Depth (inches 0-18 *Typ Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Muck Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation Water Mar Depleted E Thick Dark Sediment Drift Depos	c (A10) c (A10) delector (A2) c (A3) Sulfide (A4) ayers (A5) (A10) delow Dark Surface (A12) (if observed): gy Indicators: Prinater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) dist (B3) or Crust (B4) dist (B5)	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches)	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	eeded to % 10 Loced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ged Rhize nce of R	Type C C C C C C C C C C C C C C C C C C C	Redox Feature Re	res Tex Sid	Yes n absence of indi ture RCL tion: PL=Pore Lini X Redox Dal Depleted I Redox Del Indicators for Coast Prai Iron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Stunted or Stres	No icators.) Remarks Ing, M=Matrix Ing, M=Matri	6) (F7) s) lydric Soils 16) ss (F12) ace (F12)
Restri	Type the control of t	c (A12) gy Indicators: Printer (A1) r Table (A2) (A3) surface (A12) (if observed): gy Indicators: Printer (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) Visible on Aeriegetated Conce	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches) mary Indicators	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other	eeded to % 10 10 Icced Mat Hydric Sandy I Sandy I Strippe Loamy Loamy Deplete at apply r Stained ic Fauna Aquatic F gen Sulf red Rhizo nce of R nt Iron R Muck Sule e or Well	Type C C C C C C C C C C C C C C C C C C C	Redox Feature * Loc** * Loc** M	res Tex Sid	Tyes n absence of inditure ture CL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Prailer Iron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	No icators.) Remarks Ing, M=Matrix Ing, M=Matri	6) (F7) s) lydric Soils 16) ss (F12) ace (F12)
Restri	Type the control of t	c (A12) gy Indicators: Print ater (A1) r Table (A2) (A3) sks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) Visible on Aeriegetated Concins: Surface W	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches) mary Indicators rations (B7)	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu Water Aquat True A Hydro Oxidiz Presse Recer Thin N Guage Other	eeded to % 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C C C C C C C C C C C C C C C C C C C	Redox Feature * Loc** * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved es (B9) (B14) lor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches)	**Locat	Tyes A absence of indicature ECL Sion: PL=Pore Lini X Redox Dan Depleted I Redox Depleted I I ron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Pos FAC-Neutral Tes	No No Remarks Ing, M=Matrix Ing, M	6) (F7) s) lydric Soils 16) ss (F12) ace (F12)
SOIL Restri	*Tyr Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Mucl Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation Water Mar Sediment Drift Depos Inundation Sparsely N Observatio	c Color 10YR 4/2 10YR	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches) mary Indicators ration of the present of t	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu General th Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes	eeded to % 10 10 Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Citalined itic Fauna Aquatic F gen Sulf yed Rhize nce of R nt Iron R Muck Sul e or Well No No	Type C Type C Tix, CS Soil I Mucky Joky P Gleyec Redox d Matr Mucky Gleyec d Matr	Redox Feature	**Locat	Tyes n absence of inditure ture CL tion: PL=Pore Lini X Redox Da Depleted I Redox De Indicators for Coast Prailer Iron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	No No Remarks	6) (F7) s) lydric Soils 16) ss (F12) ace (F12)
SOIL Restri HYDR Wetla	*Tyr Histosol (A Histic Epip Black Histi Hydrogen Stratified L 2 cm Mucl Depleted E Thick Dark ctive Layer Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation Water Mar Sediment Drift Depos Inundation Sparsely N Observatio	c Color 10YR 4/2 10YR	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches) mary Indicators ration of the present of t	Color 10YR 5/4 ion, RM=Redu ion, RM=Redu General th Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes	eeded to % 10 10 Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Citalined itic Fauna Aquatic F gen Sulf yed Rhize nce of R nt Iron R Muck Sul e or Well No No	Type C Type C Tix, CS Soil I Mucky Joky P Gleyec Redox d Matr Mucky Gleyec d Matr	Redox Feature * Loc** * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved es (B9) (B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches) Depth (inches)	**Locat	Tyes A absence of indicators of ture Tion: PL=Pore Lini X Redox Dan Depleted I Redox Secondar Iron-Mang Very Shall Other Yes X Secondar Surface Soil Cra Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Post FAC-Neutral Testing Indicators Present Indicators Indicat	No No Remarks	(F7) (F7) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S

Site: Client:	W. Lancaster	r-S.Baltimor AEP	e-W.Millersport			Fairfield County wnship, Range:	_Date:2	27 March 2024 Data F Sec S1, T 15N, R 1	
	igator(s):	L. Vine, E.	Holt	<u> </u>	_Section, 10	Landforn		lains Local Relief	Concave
Slope	· /	Maranga		9.809106°	_Long	-82.610454°	Datum:	NAD83 NWI Class:	PEM
	ap Unit Name: limatic/hydrolo		ns typical for tim	e of year?	Y/N Y				
	Vegetation			N or Hy		significantly disturbed			
Are No	Vegetation ormal Circumsta		_,	N or Hy 'es x	rdrology N	naturally problematic			
	IARY OF FIND	INGS		-			_		
	Hydro		etation Present? ric Soil Present?		_No No	_	le the DP	within a Wetland?	
	V		Irology Present?		No			X No	
VEGE	TATION								
	Stratum	Dist size:	201	Absolute %	Dominant	Indicator State			
	otratum_	Plot size:	30'	Cover	Species	maicator Stati	is		
1. 2.				-	_		——— NI	Dominance Test V umber of dominant spec	ies that
3.							ar	e OBL, FACW, or FAC:	5
4. 5.								otal number of dominant pecies across all strata:	6
				0	Total Cover		Pe	ercent of dominant spec	ies that
Shrub 1.	Stratum_	Plot size:	15'					e OBL, FACW, or FAC: revalence Index Works	
2.								Total % cover of:	Heet
3.									x 1 1 x 2 90
4. 5.							FA		x 2 x 3 0
		D		0	Total Cover		FA	ACU species 0	x 4 0
1.	Stratum Juncus effusu	Plot size:	5	45	Υ	OBL	1	PL species 10 Total 56	x 5 <u>50</u>
2.	Phalaris arund			25	Y	FACW	2	Prevalence	
3. 4.	Thyrsanthella Dipsacus lacir			<u>15</u> 10	- <u>N</u> N	FACW UPL	2 Hy	ydrophytic Vegetation Rapid Test for Hydr	
5.	Lepidium latifo	olium		3	N	FACW	2	x Dominance Test is:	>50%
6. 7.	Carex vulpino	idea		2	N	FACW	2	x Prevalence Index is Morphological Adap	
8.								Problematic Hydrophyt	
Woods	Vine Stratum	Plot size:	30'	100	Total Cover			*Indicators of hydric so	
1.	v vine otratam	1 101 3120.						hydrology must be pre	•
2.					Total Cover	_		disturbed or prob	
F	Remarks:			0	Total Cover			Hydrophytic Vegetat Yes X No	
		ofile Descri	ntion: (Descri			rument the indicator or	confirm at	Hydrophytic Vegetat Yes X No	
F			Matrix	be to depth ne	eeded to doo	cument the indicator or Redox Feat	ures	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Pro Depth (inches)	Color	Matrix %		eeded to doo		ures Texture	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Pro Depth		Matrix % 100	be to depth ne	eeded to doo	Redox Feat	ures	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Pro Depth (inches) 0-6	Color 10YR 4/2	Matrix % 100	be to depth no	eeded to doo	Redox Feat	ures Texture SiCL	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	% Typ	Redox Feat	Texture SiCL SiCL	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks	ion Present?
F	Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	% Typ 10 C	Redox Feat De* Loc** M CS=Coated Sand grains	Texture SiCL SiCL	Hydrophytic Vegetat Yes X No osence of indicators.)	ion Present?
F	Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	% Typ 10 (Iced Matrix, (Hydric Soi	Redox Feat	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks	ion Present?
F	Depth (inches) 0-6 6-18 *Type: 0	Color 10YR 4/2 10YR 4/2 C=Concentr	Matrix	Color	% Typ 10 C	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface	atrix e (F6) ace (F7)
F	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (3) (ide (A4)	Matrix	Color	% Type 10 Control of the control of	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Ma X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problema	atrix e (F6) ace (F7) (F8) tic Hydric Soils
F	Pro Depth (inches) 0-6 6-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) (ide (A4) (ors (A5)	Matrix	Color	% Typ 10 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ded Matrix (S4) x (S5) trix (S6)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks Remarks PL=Pore Lining, M=Ma X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problema Coast Prairie Redox	atrix e (F6) ace (F7) (F8) tic Hydric Soils
F	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) (de (A4) (ers (A5) 10)	Matrix % 100 95 ation, D=Depleti	Color	% Typ 10 (C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Sandy Redo Stripped Ma Loamy Muck	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Ma X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problema	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
SOIL	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) iris (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Depleti	Color	% Typ 10 (C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Sandy Redo Stripped Ma Loamy Muck	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No Desence of indicators.) Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
SOIL	Pro Depth (inches) 0-6 6-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) iris (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Depleti face (A11) Type:	Color 10YR 4/6 ion, RM=Redu	% Typ 10 C 10 C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2) atrix (F3)	restures Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Souther	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
SOIL	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) iris (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Depleti	Color 10YR 4/6 ion, RM=Redu	% Typ 10 C 10 C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	restures Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No Desence of indicators.) Remarks Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark S	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
Restri	Type: 0 Typ	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) (A4) (A5) (A5) (A5) (A6) (A6) (A7) (A7) (A7) (A7) (A7) (A7) (A7) (A7	Matrix % 100 95 ation, D=Depleti face (A11) Type:	Color 10YR 4/6 ion, RM=Redu	% Typ 10 C 10 C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2) atrix (F3)	restures Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Souther	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
Restri	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) (ide (A4) (irs (A5) (10) (image of the color of the	Matrix % 100 95 ation, D=Depleti face (A11) Type:	color 10YR 4/6 ion, RM=Redu	10 (CHydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma Loamy Muck Loamy Gley Depleted Ma at apply)	Redox Feat De* Loc** CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr	**Location	Hydrophytic Vegetat Yes X No Desence of indicators.) Remarks Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Depleted Dark Surface Redox Depressions Indicators for Probleman Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Sother Yes X No Secondary Indicate	attrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12)
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Restri- HYDR Wetlan X X	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prir (A1) able (A2) (b)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color 10YR 4/6 10YR 4/6 ion, RM=Redu (check all th Water Aquat True A	% Type 10 Community 10 Communit	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr ves (B9) 3) s (B14)	resert?	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Ma Very Shallow Dark S Other Yes X No Secondary Indicat Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table (1988)	atrix e (F6) ace (F7) (F8) tic Hydric Soils ((A16) asses (F12) Surface (F12)
Restri- HYDR Wetlan X X	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) 10) w Dark Surf fface (A12) observed): Indicators: Prir r (A1) able (A2) (B1)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color 10YR 4/6 10YR 4/6 ion, RM=Redu color (check all the Water Aquat True A Hydro	% Type 10 Comments of the sedent to document of the sedent of th	Redox Feat De* Loc** CS=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat By Mineral (S4) CS5) By Mineral (S4) CS6) By Mineral (F1) By Mineral (F1) By Mineral (F2) By Mineral (F3) Hydric Soil Pr Wes (B9) By Si (B14) By Odor (C1)	**Location **Location cesent? SiCL **Location cesent?	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Mayery Shallow Dark S Other Yes X No Secondary Indicat Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table or Tabl	atrix e (F6) ace (F7) (F8) tic Hydric Soils ((A16) Surface (F12) ors
Restri- HYDR Wetlan X X	Production	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) (A5) (A5) (A7) observed): Indicators: Prir r (A1) able (A2) (B3)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese	meeded to door % Typer	Redox Feat De* Loc** CS=Coated Sand grains Indicators: Dy Mineral (S1) Peat or Peat Ed Matrix (S4) X (S5) trix (S6) Xy Mineral (F1) Ed Matrix (F2) Atrix (F3) Hydric Soil Pr Wes (B9) 3) S (B14) Odor (C1) Eres on Living Roots Ed Iron (C4)	**Location **Cesent? SiCL **Location **Cesent?	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Ma Very Shallow Dark S Other Yes X No Secondary Indicat Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table (Tayfish Burrows (C8) Saturation Visible on Aeria United or Stressed Plant	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri- HYDR Wetlan X X	Production Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Watel High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) irs (A5) (A5) (A5) (A5) (A7) observed): Indicators: Prir (A1) (A2) (B1) (B3) (B3) (Calculate (B4) (Calculate (B4	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer	meded to door which the control of t	Redox Feat De* Loc** CS=Coated Sand grains Indicators: Ty Mineral (S1) Peat or Peat Ed Matrix (S4) X (S5) Trix (S6) Ey Mineral (F1) Ed Matrix (F2) Attrix (F3) Hydric Soil Pr Type of the property of the propert	resert? **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Max Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Stother Yes X No Secondary Indicat urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant elemorphic Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri- HYDR Wetlan X X	Property Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Suctive Layer (if Remarks: OLOGY and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Deposits Algal Mat or Clron Deposits	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) irs (A5) (D) w Dark Surfrface (A12) observed): Indicators: Prir (A1) able (A2) (B) (B3) (rust (B4) (B5)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	meeded to door % Typer	Redox Feat De* Loc** CS=Coated Sand grains Indicators: Ty Mineral (S1) Peat or Peat Ed Matrix (S4) X (S5) trix (S6) Ey Mineral (F1) Ed Matrix (F2) atrix (F3) Hydric Soil Pr Type (Si) Wes (B9) By Mineral (C1) Hydric Soil Pr Type (C1) Type (C2) Type (C3) Type (C4) Ty	resert? **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Ma Very Shallow Dark S Other Yes X No Secondary Indicat Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table (Tayfish Burrows (C8) Saturation Visible on Aeria United or Stressed Plant	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri HYDR Wetlan	Property Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 c=Concentr on (A2) (A3) ide (A4) ide (A4) irrs (A5) ide (A4) ivrs (A5) ide (A2) ible (A2) ible (A2) ible (A2) ible (A3) ible on Aerietated Concentrations	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other	meeded to door % Typer 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 18 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 18 Column	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr Ves (B9) 3) as (B14) Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	resert? **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Max Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Stother Yes X No Secondary Indicat urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant elemorphic Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri HYDR Wetlan	Property Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prir (A1) bble (A2) (B3) (B3) (B5) ide (B4) (B5) ide (A2) ide (B4) (B5) ide (B5) ide (B6) Surface W	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present?	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Presse Recer Thin N Guage Other	meeded to door % Typer 10 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 18 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 18 Column	Redox Feat De* Loc** S M CS=Coated Sand grains Indicators: Ly Mineral (S1) Peat or Peat Ed Matrix (S4) Indicators: Hydric Soil Pr Wes (B9) B (B14) Dodor (C1) Let Soil (C6)	resert? **Location **Location **Location Cr SiCL **Location **Location **Location **X St X Ge X FA	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Mayery Shallow Dark Sother Yes X No Secondary Indicate Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table (Table States) Trainage Patterns (C8)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri- HYDR Wetlan X X	*Type: 0 Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5)	Matrix % 100 95 ation, D=Depleti Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True / Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes Yes X Yes X	meeded to door % Typer 10 Column 11 Column 11 Column 12 Column 11 Column 12 Column 12 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 18 Column 19 Column 10 Column	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr Ves (B9) 3) as (B14) Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	**Location **Location **Location Comparison **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Max Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Stother Yes X No Secondary Indicat urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant elemorphic Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)

Site:	W. Lancaster	-S.Baltimore AEP	e-w.iviillersport	City/County	/: Cootio		irfield County	_Date:		h 2024 Data Poi	
Client	: tigator(s):	L. Vine, E.I	Holt	_State:O	H_Sectio	n, row	nship, Range: Landform	Til	I Plains	S1, T 15N, R 19V Local Relief	Convex
Slope	(%):		Lat. 3	9.809228°	Long.		-82.610301°		NAD83	NWI Class:	N/A
Soil M	1ap Unit Name: Climatic/hydrolog	Marengo cl	lay loam	o of voor?	Y/N	Y					
	Vegetation				Hydrology		significantly disturbed				
	Vegetation	N	, Soil	N or I	Hydrology	N	naturally problematic				
	ormal Circumsta		nt? Y	es x	No						
SOWIN		phytic Vege	tation Present? ic Soil Present?		No	Х		Is the	DP within	a Wetland?	
	W		rology Present?		No	Χ		Yes	X No		
VFGF	TATION										
		Dist sins.	201	Absolute %	6 Dom	inant	Indicator Ctatu				
	Stratum_	Plot size:	30	Cover	Spe	cies	Indicator Statu	ıs	_		
1.							· -			minance Test Wo f dominant species	
2. 3.										FACW, or FAC:	4
4.									Total num	ber of dominant	7
5.										cross all strata:	
Shruh	Stratum	Plot size:	15'	0	Total C	over				dominant species FACW, or FAC:	57.14
1.	Otratam	1 101 3120.								e Index Workshe	et
2.										% cover of:	<u> </u>
3. 4.							-		OBL spec FACW spe		
5.									FAC spec	ies 10 x	3 30
				0	Total C	over	· ·		FACU spe	cies 70 x	4 280
Herb S	Stratum Schedonorus a	Plot size:		55	,	Y	FACU	4	UPL speci		5 <u>0</u> 311
2.	Juncus effusus		<u> </u>	10		<u> </u> 	OBL	1	100	Prevalence Ir	
3.	Juncus tenuis			10		N	FAC			tic Vegetation Inc	
4. 5.	Carex frankii Trifolium prate	nco		5 5		<u> </u>	OBL FACU	<u>1</u> 4		oid Test for Hydrop ninance Test is >5	
6.	Dipsacus fullo			5		N N	FACU	4		valence Index is <	
7.	Solidago cana			5		N	FACU	4	Mor	phological Adapta	tions*
8.				95	Total C	01/05				elematic Hydrophytic	· ·
Wood	ly Vine Stratum	Plot size:	30'	95	Total C	over				tors of hydric soil a	
1.		. 101 0.20								logy must be prese disturbed or proble	
2.				0	Total C	01/05				phytic Vegetation	
	Remarks:			0	Total C	ovei			Yes		i i resent:
SOIL			.: /5 !!								
	Depth		ption: (Descrit Matrix	be to depth	needed to	docu	ment the indicator or Redox Featu		absence	of indicators.)	
	(inches)	Color	%	Color	%	Туре	* Loc**	Text	ture	Remarks	
	0-6	10YR 4/2	100	40\/D 4/0	10			SiC			
	6-18	10YR 4/2	95	10YR 4/6	10	С	M	SiC	JL		
	*T (0	rice B Beeler	DM D			0 - 1 - 1 0 1 1	**! 1	· DI D -	and the transfer of the total	
	"Type: C	=Concentra	ation, D=Depleti	ion, RIVI=Red			=Coated Sand grains ndicators:	""Locat	ion: PL=Po	re Lining, M=Matr	IX
	Histosol (A1)						Mineral (S1)		Red	lox Dark Surface (F6)
	Histic Epipedo						eat or Peat			leted Dark Surface	
	Black Histic (A Hydrogen Sulfi				Sandy (Matrix (S4)			lox Depressions (F ors for Problematic	
	Stratified Laye				Strippe					st Prairie Redox (
	2 cm Muck (A1	10)	(4.4.)				Mineral (F1)			-Manganese Mass	
					I oamv		l Matrix (F2)			y Shallow Dark Su	rface (F12)
	Depleted Below	พ Dark Surfa	ace (A11)			ital/I ba	ix (F3)				
Restr	Depleted Below Thick Dark Sur ictive Layer (if	w Dark Surfa rface (A12)	, ,		Deplete	ed Matr	ix (F3)		Oth		
	Thick Dark Sur	w Dark Surfa rface (A12)	, ,	:		ed Matr	ix (F3) Hydric Soil Pr	esent?	Yes		
	Thick Dark Surictive Layer (if	w Dark Surfa rface (A12)	Type:	:		ed Matr	· · ·	esent?			
HYDR	Thick Dark Sur	w Dark Surfa rface (A12) observed):	Type:	:		ed Matr	· · ·	esent?			
HYDR	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I	w Dark Surfa face (A12) observed): ndicators: Prin	Type:	(check all t	Deplete	')	Hydric Soil Pr	esent?	Yes	X No	s
HYDR	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I	w Dark Surfa face (A12) observed): ndicators: Prin (A1)	Type: Depth (Inches)	(check all t	Deplete that apply er Stained	') I Leave	Hydric Soil Property (See (B9)	esent?	Yes Sec	X No condary Indicator oil Cracks (B6)	s
HYDR	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I	w Dark Surface (A12) observed): ndicators: Prin (A1) ble (A2)	Type: Depth (Inches)	(check all t	Deplete	') I Leave a (B13)	Hydric Soil Property (Property Soil Property	esent?	Yes Sec Surface S Drainage	X No	
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (i	w Dark Surface (A12) observed): ndicators: Prin (A1) ble (A2) B1)	Type: Depth (Inches)	(check all 1 Wat Aqu True Hyd	Deplete that apply er Stained atic Fauna e Aquatic F rogen Sulf) I Leave a (B13) Plants (Hydric Soil Property (B14) or (C1)	esent?	Sec Surface S Drainage I Dry-Seasc Crayfish B	condary Indicator oil Cracks (B6) Patterns (B10) on Water Table (Caurrows (C8)	2)
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (in Sediment Depo	w Dark Surface (A12) observed): ndicators: Prin (A1) ble (A2)) B1) osits (B2)	Type: Depth (Inches)	(check all 1 Wat Aqu True Hyd Oxio	that apply er Stained atic Fauna e Aquatic F rogen Sulf dized Rhizo	l Leave a (B13) Plants (Hydric Soil Property (Property Control of Co	esent?	Sec Surface S Drainage I Dry-Seaso Crayfish B Saturation	condary Indicator oil Cracks (B6) Patterns (B10) on Water Table (Caurrows (C8)	2) magery (C9)
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (i	w Dark Surface (A12) observed): ndicators: Prin (A1) ble (A2)) B1) osits (B2) (B3)	Type: Depth (Inches)	Check all 1 Wat Aqu True Hyd Oxic Pres	that apply er Stained atic Fauna e Aquatic F rogen Sulf dized Rhizo sence of R	T Leave I Leave I (B13) Plants (iide Odospher leduce	Hydric Soil Property (B14) or (C1)	esent?	Sec Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or	condary Indicator oil Cracks (B6) Patterns (B10) on Water Table (Caurrows (C8)	2) magery (C9)
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deport Deposits (I Algal Mat or CI Iron Deposits (I Iron Iron Iron Iron Iron Iron Iron Iro	w Dark Surface (A12) observed): ndicators: Prin (A1) ble (A2)) BB1) osits (B2) (B3) rust (B4) B5)	Type: Depth (Inches) nary Indicators	Check all 1 Wat Aqu. True Hyd Oxic Pres Rec Thin	that apply er Stained actic Fauna e Aquatic F rogen Sulf dized Rhizo sence of R ent Iron Ro I Muck Sul	I Leave (B13) Plants (Fide Odospher reducededuction	Hydric Soil Property (Property Control of Co	esent?	Sec Surface S Drainage I Dry-Seasc Crayfish E Saturation Stunted or Geomorph	condary Indicator oil Cracks (B6) Patterns (B10) on Water Table (Caurrows (C8) Visible on Aerial I of Stressed Plants (2) magery (C9)
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY Ind Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks () Sediment Deporits Algal Mat or C Iron Deposits () Inundation Visi	w Dark Surface (A12) observed): ndicators: Prin (A1) ble (A2)) B1) oosits (B2) (B3) rust (B4) B5) ible on Aeria	Type: Depth (Inches) nary Indicators al Imagery (B7)	G (check all 1 Wat Aqu. True Hyd Oxio Pres Rec Thin Gua	that apply er Stained actic Fauna e Aquatic F rogen Sulf dized Rhizc sence of R ent Iron Ro I Muck Sui ge or Well	I Leave (B13) Plants (Fide Odospher reducededuction	Hydric Soil Property (Property Control of Co		Sec Surface S Drainage I Dry-Seasc Crayfish E Saturation Stunted or Geomorph	condary Indicator coil Cracks (B6) Patterns (B10) on Water Table (Castrows (C8) Visible on Aerial I or Stressed Plants (nic Position (D2)	2) magery (C9)
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deport Deposits (I Algal Mat or CI Iron Deposits (I Iron Iron Iron Iron Iron Iron Iron Iro	modicators: Prin (A1) ble (A2) bsits (B2) (B3) rust (B4) B5) ble on Aeria tated Conca	Type: Depth (Inches) nary Indicators al Imagery (B7) ave Surface	Check all 1 Wat Aqu. True Hyd Oxic Pres Rec Thin	that apply er Stained actic Fauna e Aquatic F rogen Sulf dized Rhizc sence of R ent Iron Ro I Muck Sui ge or Well	I Leave (B13) Plants (Fide Odospher reducededuction	Hydric Soil Process (B9) (B14) or (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7) (D9)		Sec Surface S Drainage I Dry-Seasc Crayfish E Saturation Stunted or Geomorph	condary Indicator coil Cracks (B6) Patterns (B10) on Water Table (Castrows (C8) Visible on Aerial I or Stressed Plants (nic Position (D2)	2) magery (C9)
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY Ind Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (independent of the color of t	modicators: Prin (A1) ble (A2) bsits (B2) (B3) rust (B4) B5) ble on Aeriatade Concasurface Water Table	Type: Depth (Inches) nary Indicators al Imagery (B7) ave Surface ater Present? e Present?	Wat Aqu. True Hyd Oxio Pres Rec Thin Gua Othe Yes	that apply er Stained atic Fauna e Aquatic Frogen Sulf dized Rhizz sence of Rent Iron Runge or Weller No	Leave a (B13) Plants (ide Odospher leduceleduction rface (I) I Data	Hydric Soil Process (B9) (B14) or (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches) Depth (inches)	X	Sec Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted or Geomorph FAC-Neut	condary Indicator oil Cracks (B6) Patterns (B10) on Water Table (C: currows (C8) I Visible on Aerial I of Stressed Plants (oil Position (D2) ral Test (D5) ors Present?	2) magery (C9) D1)
HYDR Wetla	Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (in Sediment Deposits Algal Mat or Color Deposits (in Inundation Vising Sparsely Vege Observations:	modicators: Prin (A1) ble (A2) bsits (B2) (B3) rust (B4) B5) ble on Aeria tated Conca Surface Water Tabl Saturation	Type: Depth (Inches) al Imagery (B7) ave Surface ater Present? e Present? Present?	Ccheck all 1 Wat Aqu. True Hyd Oxic Pres Rec Thin Gua Othe Yes Yes	that apply er Stained atic Fauna e Aquatic F rogen Sulf dized Rhizo sence of R ent Iron Ro In Muck Sur ige or Well er	r) I Leave a (B13) Plants (fide Odospher deduction frace ((I Data) X X X	Hydric Soil Process (B9) (B14) or (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches)	X	Sec Surface S Drainage Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	condary Indicator oil Cracks (B6) Patterns (B10) on Water Table (C: currows (C8) I Visible on Aerial I of Stressed Plants (oil Position (D2) ral Test (D5) ors Present?	2) magery (C9)

Site: Client:		AEP	•	City/County: State: OH	Sectio		irfield County nship, Range:	Date:	Sec S1, T 15N, R 19W	
Slope	igator(s): (%):	L. Vine, E.		39.807529°	Long.		Landform '-82.611944°		oraines Local Relief Concave NAD83 NWI Class: PEM	
Soil M	ap Unit Name:		g silt loam, 2 to		es					
C	limatic/hydrolo Vegetation		ns typical for tin , Soil	ne of year? N or Hv	Y/N drology	Y N	significantly disturbed			
	Vegetation		_, Soil		drology		naturally problematic			
	ormal Circumsta IARY OF FIND		ent?	Yes <u>x</u>	No					
SOWIN			etation Present	? Yes X	No					
	V		ric Soil Present		No		•		DP within a Wetland?	
		veцапа пус	Irology Present	? Yes X	No			Yes	X No	
VEGE	TATION			A h = = l t = . 0/	D					
Tree S	Stratum_	Plot size:	30'	Absolute % Cover	Domi Spe		Indicator Statu	S		
1.						0.00			Dominance Test Worksheet	
2.							· -		Number of dominant species that	3
3. 4.							· 		are OBL, FACW, or FAC: Total number of dominant	
5.									species across all strata:	3
Chrub	Ctratum	Dist size.	451	0	Total Co	over			Percent of dominant species that 100	.00
1.	Stratum	Plot size:	15						are OBL, FACW, or FAC: Prevalence Index Worksheet	
2.							-		Total % cover of:	
3.							· -		OBL species 1 x 1	1
4. 5.							· 		FACW species 25 x 2 FAC species 0 x 3	50 0
0.				0	Total Co	over	-		FACU species 0 x 4	0
	Stratum_	Plot size:	5'		_	,	0.01		UPL species 0 x 5	0
1. 2.	Juncus effusu Scirpus cyperi			20		<u>(</u>	OBL OBL	<u>1</u> 1	Total <u>26</u> Prevalence Index:	<u>51</u> 1.96
3.	Phalaris aruno		 ,	15	N	1	FACW		Hydrophytic Vegetation Indicators:	1.50
4.	Carex frankii			10			OBL	1	Rapid Test for Hydrophytic Veg.	
5. 6.	Carex vulpino			<u>10</u> 5			FACW OBL	<u>2</u> 1	Dominance Test is >50% Prevalence Index is <3.0*	
7.	Typha latifolia			5	- <u></u>		OBL	1	Morphological Adaptations*	
8.	Carex musking	gumensis		5	N		OBL	1	Problematic Hydrophytic Vegetation*	
\M\oods	y Vine Stratum	Plot cizo:	30'	90	Total Co	over			*Indicators of hydric soil and wetland	
1.		FIUL SIZE.							hydrology must be present, unless	
2.									disturbed or problematic	
	Remarks:			0	Total Co	over			Hydrophytic Vegetation Present? Yes X No	
SOIL		ofile Deceri	intion: (Decer				mont the indicator or	wf! v m	Yes X No	
			iption: (Descri				ment the indicator or Redox Featu			
	Pro Depth (inches)	Color	Matrix %			docu		res Text	Yes X No absence of indicators.)	
	Depth (inches)	Color 10YR 4/2	Matrix % 100	ibe to depth no	eeded to	Type	Redox Featu * Loc**	res Text Si	Yes X No absence of indicators.) ture Remarks	
	Pro Depth (inches)	Color	Matrix % 100	ibe to depth ne	eeded to	docu	Redox Featu	res Text	Yes X No absence of indicators.) ture Remarks	
	Depth (inches)	Color 10YR 4/2	Matrix % 100	ibe to depth no	eeded to	Type	Redox Featu * Loc**	res Text Si	Yes X No absence of indicators.) ture Remarks	
	Depth (inches) 0-4 4-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	%	Type C	Redox Featu * Loc** M	res Text Si SIC	Yes X No absence of indicators.) ture Remarks L CL	
	Depth (inches) 0-4 4-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	% 10 10 1ced Mat	Type C rix, CS	Redox Featu * Loc** M =Coated Sand grains indicators:	res Text Si SIC	Yes X No absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix	
	Depth (inches) 0-4 4-18 *Type: 0	Color 10YR 4/2 10YR 4/2	Matrix	Color	9 10 10 Iced Mat	Type C Crix, CS	Redox Feature Re	res Text Si SIC	Yes X No absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6)	
	Depth (inches) 0-4 4-18	Color 10YR 4/2 10YR 4/2 C=Concentr	Matrix	Color	10 iced Mat Hydric Sandy I 5 cm Mu	Type C Crix, CS Soil I	Redox Featu * Loc** M =Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Text Si SIC	Yes X No absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix	
	Property Depth (inches) 0-4 4-18 *Type: 0	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4)	Matrix	Color	% 10 10 iced Mat Hydric Sandy F 5cm Mt Sandy F Sandy F	Type C rix, CS Soil II Mucky ucky Pe Gleyed Redox	Redox Feature Re	res Text Si SIC	Yes X No absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) — Depleted Dark Surface (F7) — Redox Depressions (F8) Indicators for Problematic Hydric Soils	
	Property Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5)	Matrix	Color	eeded to % 10 10 cced Mat Hydric Sandy I Scm Mu Sandy I Sandy I Stripped	Type C rix, CS Soil I	Redox Feature Re	res Text Si SIC	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16)	
	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) 33) fide (A4) ers (A5) 10)	Matrix % 100 90 attion, D=Deple	Color	% 10 10 ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy P Strippe Loamy	Type C C rix, CS Soil I Mucky acky Pe Gleyed Redox d Matri Mucky	Redox Feature Re	res Text Si SIC	Yes X No absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12)	S
SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	Matrix % 100 90 ation, D=Deple	Color	% 10 10 ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy P Strippe Loamy	Type C C rix, CS Soil II Mucky ucky Pe Gleyed Redox d Matri Mucky Gleyed Gleyed	Redox Feature Loc** M	res Text Si SIC	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16)	S
SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	Matrix % 100 90 ation, D=Deple	Color 10YR 4/6 tion, RM=Redu	90 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C C rix, CS Soil II Mucky ucky Pe Gleyed Redox d Matri Mucky Gleyed Gleyed	Redox Feature Re	Text Si SiG	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other	S
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	Matrix % 100 90 ation, D=Deple	Color 10YR 4/6 tion, RM=Redu	90 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C C rix, CS Soil II Mucky ucky Pe Gleyed Redox d Matri Mucky Gleyed Gleyed	Redox Feature Loc** M	Text Si SiG	Yes X No absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12)	S
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surf urface (A12) observed):	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	Color 10YR 4/6 tion, RM=Redu	90 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C C rix, CS Soil II Mucky ucky Pe Gleyed Redox d Matri Mucky Gleyed Gleyed	Redox Feature Re	Text Si SiG	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other	S
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surf urface (A12) observed):	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	ibe to depth ne	eeded to % 10 10 Icced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete	Type C C rix, CS Soil I Mucky Gleyed Redox d Matri Mucky Gleyed Mucky Gleyed Mucky	Redox Feature Re	Text Si SiG	Yes X No absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No	S
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators:	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	ibe to depth no Color 10YR 4/6 tion, RM=Redu	eeded to % 10 10 Icced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete	Type C C rix, CS Soil II Mucky Joky Pe Gleyed Redox d Matri Mucky Gleyed d Matri	Redox Feature Loc** M	Text Si SiC ***Locati	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other	S
Restri HYDR Wetla	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2)	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	ibe to depth not color c	sandy for Sandy	Type C rix, CS Soil II Mucky Pe Gleyed Redox d Matri Mucky Gleyed d Matri	Redox Feature Loc** M	Text Si SiC ***Locati	A Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10)	S
Restri HYDR Wetla	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sul ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3)	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 c=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Print r (A1) able (A2) B)	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	ibe to depth not color 10YR 4/6 tion, RM=Reduction, RM=Reduction and color tion are color to the color tion and color tion are color to the color tion and color tion are color to the color tion are color to the color tion are color to the color tion are color tion are color to the color tion are color tion are color to the color tion are color to the color tion ar	sandy (Sandy Farity Loamy Loamy Deplete	Type C rix, CS Soil II Mucky J Leave (B13) Plants (Redox Feature* Loc** M	Text Si SiG	A Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)	S
Restri HYDR Wetla	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) oosits (B2)	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	ibe to depth not color 10YR 4/6 tion, RM=Reduction, RM=Reduction and color tion are color tion.	seded to % 10 10 ced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ged Rhize	rix, CS Soil I Mucky John Mucky Gleyed Redox d Matri Mucky Gleyed Gleyed (B13) Plants (ide Od pspher	Redox Feature* Loc** M	Text Si SiG	Tyes X No Tabsence of indicators.) Ture Remarks L CL Tion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3)	S
Restri HYDR Wetla	Property Depth (inches) 0-4 4-18 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Sulf Ctive Layer (if Remarks: OLOGY and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) oosits (B2) (B3)	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	ibe to depth not color 10YR 4/6 10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	eeded to % 10 10 Icced Mat Hydric Sandy F Stripped Loamy Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ted Rhizz nce of R	Type C C C C C C C C C C C C C	Redox Feature * Loc** M =Coated Sand grains Indicators: Mineral (S1) Eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Preses Es (B9) (B14) or (C1) es on Living Roots d Iron (C4)	**Locati	A secondary Indicators Secondary Indicators Yes X No Remarks L CL Ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Stunted or Stressed Plants (D1)	S
Restri HYDR Wetla	Property Depth (inches) 0-4 4-18 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sulctive Layer (if Remarks: OLOGY and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or Content Sediment Dep Drift	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr On (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4)	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	ibe to depth no Color 10YR 4/6 tion, RM=Redu tion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer	eeded to % 10 10	Type C C C C C C C C C C C C C	Redox Feature* Loc** M	**Locati	Tyes X No Tabsence of indicators.) Ture Remarks L CL Jion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) — Depleted Dark Surface (F7) — Redox Depressions (F8) Indicators for Problematic Hydric Soils — Coast Prairie Redox (A16) — Iron-Manganese Masses (F12) — Very Shallow Dark Surface (F12) — Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2)	S
Restri HYDR Wetla	Property Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sul ictive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) cossits (B2) (B3) crust (B4) (B5)	Matrix % 100 90 ation, D=Deple face (A11) Type: Depth (Inches	color 10YR 4/6 10YR 4	eeded to % 10 10 Icced Mat Hydric Sandy F Stripped Loamy Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ted Rhizz nce of R	Type C C rix, CS Soil II Mucky Gleyed Redox Mucky Gleyed Redox Mucky Gleyed Redox Mucky Gleyed Redox Gleyed	Redox Feature* Loc** M	**Locati	A secondary Indicators Secondary Indicators Yes X No Remarks L CL Ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Stunted or Stressed Plants (D1)	S
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Restri HYDR Wetla	Property Depth (inches) 0-4 4-18 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Sulctive Layer (if Remarks: OLOGY and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1) oosits (B2) (B3) (Crust (B4) (B5) sible on Aerietated Conc Surface W	Matrix % 100 90 ation, D=Deple	color 10YR 4/6 10YR 4	seeded to % 10 10 Sandy I Sandy I Sandy I Sandy I Stripper Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ted Rhizc nce of R fluck Sur e or Well No	Type C C rix, CS Soil II Mucky Gleyed Redox Mucky Gleyed Redox Mucky Gleyed Redox Mucky Gleyed Redox Gleyed	Redox Feature Redox Feature Loc**	**Locati	A Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)	S
Restri HYDR Wetla X X	Property Depth (inches) 0-4 4-18 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Sulf Ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or Clron Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr On (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Prir r (A1) able (A2) 3) (B1) cosits (B2) (B3) crust (B4) (B5) sible on Aeri etated Conc Surface W Water Tab Saturation	Matrix % 100 90 ation, D=Deple ation, D=Deple	ibe to depth not color c	eeded to % 10 10 Sandy F Sandy F Stripped Loamy Nous F No No No No No	Type C C C C C C C C C C C C C	Redox Feature Loc** M	**Locati	Tyes X No Tabsence of indicators.) Ture Remarks L CL Jion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) — Depleted Dark Surface (F7) — Redox Depressions (F8) Indicators for Problematic Hydric Soils — Coast Prairie Redox (A16) — Iron-Manganese Masses (F12) — Very Shallow Dark Surface (F12) — Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2)	S

Site:			e-W.Millersport				airfield County	Date:	27 Mai				UPL-60A
Client: Invest	: igator(s):	AEP L. Vine, E.	Holt	State: OH	_Sectio	n, Tow	nship, Range: Landform	M	Se oraines	ec S1, T Loca	15N, R al Relief		onvex
Slope	(%):	-	Lat. 39	9.807445°	Long.		-82.611981°	Datum			l Class:		N/A
			g silt loam, 2 to 6		es -			-					
C	imatic/nydroio Vegetatior		ns typical for time , Soil		Y/N drology	YN	significantly disturbed						
	Vegetation	n N	_, Soil	or Hy	drology	N	naturally problematic						
	ormal Circumst		ent? Y	es x	No		- -						
JOININ			etation Present?	Yes	No	Х							
	-	Hydi	ric Soil Present?	Yes X	No		-		DP within		and?		
	V	Wetland Hyd	Irology Present?	Yes X	No			Yes	No	<u> X</u>			
VEGE	TATION												
Tree S	Stratum	Plot size:	30'	Absolute %		inant	Indicator Statu	s					
1.				Cover	Spe	cies			l _D	ominan	ce Test	Worksh	eet
2.									Number	of domir	ant spe	cies that	
3.									are OBL Total nu				
4. 5.									species			ι	4
				0	Total C	over	-		Percent			cies that	25.00
	Stratum	Plot size:	15'						are OBL				25.00
1.									Prevale: Tota	n ce ina e il % cove		sneet	
3.							-		OBL spe	ecies		x 1	1
4.									FACW s			x 2	0
5.	-			0	Total C	over	<u> </u>		FAC spe FACU sp			x 3	<u>15</u>
Herb S	Stratum_	Plot size:	5'		Total O	OVCI			UPL spe			x 5	0
1.	Solidago cana	adensis		70		<u>′ </u>	FACU	4	T	otal	101		396
2. 3.	Rubus alleghe Rosa multiflor			15 10	<u> </u>	<u> </u>	FACU FACU	4	Hydroph		revalenc		
4.	Poa pratensis			5		<u>, </u>	FAC	3		apid Test			
5.							- <u> </u>		Do	ominance	e Test is	>50%	J
6. 7.										evalence orpholog			*
8.										oblematic			
	-			100	Total C	over			*Indic	cators of	hydric s	oil and v	vetland
Wood 1.	y Vine Stratum	='								ology m	•		
												والمستمير والما	
2.					-					disturbe	ed or pro	biematic	
2.	Pamarke:	1		0	Total C	over				rophytic	Vegeta	tion Pre	
2.	Remarks:								Ý€	rophytic es	Vegeta No		
2.	Pr	ofile Descri	iption: (Describ				ment the indicator or		Ý€	rophytic es	Vegeta No	tion Pre	
2.	Pr Depth	ofile Descri			eded to	o docu	Redox Featu	res	Ý€	rophytic es e of indi	Vegeta No	tion Pre	
2.	Pr Depth (inches) 0-4	ofile Descri	iption: (Describ	e to depth ne	eeded to	Type	Redox Featu	res Text	absence	rophytic es e of indi	Vegeta No cators.)	tion Pre	
2.	Pr Depth (inches)	ofile Descri	iption: (Describ	e to depth ne	eded to	o docu	Redox Featu	res Text	absence	rophytic es e of indi	Vegeta No cators.)	tion Pre	
2.	Pr Depth (inches) 0-4	ofile Descri	iption: (Describ	e to depth ne	eeded to	Type	Redox Featu	res Text	absence	rophytic es e of indi	Vegeta No cators.)	tion Pre	
2.	Pr Depth (inches) 0-4 4-18	ofile Descri Color 10YR 3/2 10YR 3/2	iption: (Describ Matrix % 100 95	ce to depth ne	eeded to	Type	Redox Featu * Loc** M	res Text SIC SIC	absence	rophytices e of indi	Vegeta No cators.)	tion Pre	
2.	Pr Depth (inches) 0-4 4-18	ofile Descri Color 10YR 3/2 10YR 3/2	iption: (Describ Matrix % 100 95	ce to depth ne	% 5 ced Mat	Type C crix, CS	Redox Featu * Loc** M S=Coated Sand grains	res Text SIC SIC	absence	rophytices e of indi	Vegeta No cators.)	tion Pre	
2.	Pr Depth (inches) 0-4 4-18	ofile Descri Color 10YR 3/2 10YR 3/2	iption: (Describ Matrix % 100 95	ce to depth ne	% 5 ced Mat	Type C Crix, CS	Redox Featu * Loc** M	res Text SIC SIC	ture CL CL ion: PL=F	rophytices e of indi	vegeta No cators.) emarks	tion Pre X	
2.	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo	ofile Descri Color 10YR 3/2 10YR 3/2 C=Concentr	iption: (Describ Matrix % 100 95	ce to depth ne	seeded to % 5 ceed Mat Hydric Sandy I	Type C C rix, CS Soil I Mucky	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Text SIC SIC	absence ture CL CL con: PL=F	e of indi R Pore Liniuedox Dar	cators.) emarks ng, M=M k Surfac	atrix e (F6) face (F7	esent?
2.	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A	ofile Descritory Color 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3)	iption: (Describ Matrix % 100 95	ce to depth ne	seeded to % 5 ceed Mate Hydric Sandy I 5cm Mu Sandy 0	Type C Crix, CS Soil I Mucky Jucky P Gleyec	Redox Feature Re	res Text SIC SIC	absence ture CL CL con: PL=F	e of indi Pore Linii edox Dar epleted Cedox Der	cators.) emarks ng, M=M k Surfac Dark Surforessions	atrix e (F6) face (F7) s (F8)	esent?
2.	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo	ofile Descri Color 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4)	iption: (Describ Matrix % 100 95	ce to depth ne	seeded to % 5 ceed Mat Hydric Sandy I	Type C Crix, CS Soil I Mucky Jucky P Gleyec Redox	Redox Feature Re	res Text SIC SIC	A absence ture CL CL CL ion: PL=F X Re Re Indica	e of indi R Pore Liniuedox Dar	cators.) emarks ng, M=W k Surfac Dark Surioressions	latrix lee (F6) face (F7) s (F8) httc Hydri	esent?
2.	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A	C=Concentr On (A2) A3) fide (A4) ers (A5)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6 on, RM=Redu	seded to % 5 ced Mat Hydric Sandy I 5cm Mt Sandy I Sandy I Strippe Loamy	Type C C rix, CS Soil I Mucky Jcky P Gleyec Redox d Matr Mucky	Redox Feature Re	res Text SIC SIC	absence ture CL CL ion: PL=F X Re Re Indica Ird	e of indi Pore Lining edox Dar epleted E epletox For bast Prain	cators.) emarks ng, M=M obark Surface	latrix la) ic Soils
2.	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo	C=Concentr On (A2) A3) fide (A4) ers (A5) ow Dark Surf	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6 on, RM=Redu	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Sandy I Strippec Loamy Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	res Text SIC SIC	x Re Indica	e of indi R Pore Lining edox Dare peleted E peletex Der ators for Dast Praion-Mangery Shalle	cators.) emarks ng, M=M obark Surface	latrix la) ic Soils
SOIL	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A	C=Concentr On (A2) A3) fide (A4) ers (A5) ow Dark Surface (A12)	iption: (Describ Matrix	Color 10YR 6/6 on, RM=Redu	seded to % 5 ced Mat Hydric Sandy I 5cm Mt Sandy I Sandy I Strippe Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	res Text SIC SIC	x Re Indica	e of indi Pore Lining edox Dar epleted E epletox For bast Prain	cators.) emarks ng, M=M obark Surface	latrix la) ic Soils
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (I Hydrogen Sul- Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	C=Concentr On (A2) A3) fide (A4) ers (A5) ow Dark Surface (A12)	Matrix 100 95 ation, D=Depleti	Color 10YR 6/6 on, RM=Redu	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Sandy I Strippec Loamy Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Text SIG	x Re Indica	e of indi Pore Lininedox Dara epleted Eedox Dera ators for boast Prair on-Mangery Shall ther	emarks mg, M=M k Surfac Dark Surforession: Problema rie Redo anese M ow Dark	latrix la) ic Soils
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	C=Concentr On (A2) A3) fide (A4) ers (A5) ow Dark Surface (A12)	iption: (Describ Matrix	Color 10YR 6/6 on, RM=Redu	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Sandy I Strippec Loamy Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Text SIG	absence ture CL CL con: PL=F X Re De Rec Indica CC Irc Ve	e of indi Pore Lininedox Dara epleted Eedox Dera ators for boast Prair on-Mangery Shall ther	emarks mg, M=M k Surfac Dark Surforession: Problema rie Redo anese M ow Dark	latrix la) ic Soils
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (I Hydrogen Sul- Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	C=Concentr On (A2) A3) fide (A4) ers (A5) 10) bw Dark Surf urface (A12) observed):	face (A11)	Color 10YR 6/6 on, RM=Redu	ced Mat Hydric Sandy I Scm Mi Sandy I Stripped Loamy Loamy Deplete	Type C C rix, CS Soil I Mucky Jucky P Gleyec Redox d Matr Mucky Gleyed d Mat	Redox Feature Re	Text SIG	x Re Re Indica CC Irc Ve	Pore Lining edox Dara epleted Dedox Dara epleted Dedox Departors for Dast Praid on-Mangery Shall ether	emarks emarks mg, M=M k Surfac Dark Surforessions Problema rie Redc anese M ow Dark No	atrix e (F6) face (F7) s (F8) tic Hydr x (A16) asses (I Surface) ic Soils
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Ind Hydrology	C=Concentr On (A2) A3) fide (A4) ers (A5) 10) bw Dark Surfurface (A12) observed): Indicators: Prir	face (A11)	color Color 10YR 6/6 Con, RM=Reduction, RM=Reduction, RM=Reduction (Check all that	ced Mat Hydric Sandy I Sandy I Strippe Loamy Loamy Deplete	Type C C rix, CS Soil I Mucky Gleyed Redox d Matr Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed	Redox Feature Re	Text SIG	Te absence ture CL CL CL CL CL CL CL C	e of indi R Pore Lining edox Dare epleted E edox Der ators for bast Prai on-Mangery Shallether es X econdar	emarks ng, M=W k Surfac Dark Surforessions Problemarie Redc anese Mow Dark No	atrix e (F6) face (F7) s (F8) tic Hydr x (A16) asses (I Surface) ic Soils
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY nd Hydrology Surface Wate	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Prir r (A1)	face (A11)	Color 10YR 6/6 Don, RM=Redu (check all tha	seded to % 5 ced Mat Hydric Sandy I Scm Mi Sandy O Sandy O Sandy D Strippe Loamy Loamy Deplete	Type C C rix, CS: Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleyed d Matr	Redox Feature Re	Text SIG	Telephone Surface	Pore Liningedox Darageleted Equators for coast Prain on-Mangery Shall ther soil Craces X	emarks emarks	atrix e (F6) face (F7) s (F8) tic Hydr x (A16) asses (I Surface) ic Soils
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3	C=Concentr On (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) B)	face (A11)	Color 10YR 6/6 0n, RM=Redu (check all that Water Aquati True A	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F	Type C Crix, CS Soil I Mucky PGleyec Redox d Matr Mucky Gleyec d Mat	Redox Feature* Karling Redox Feature* Marrix Redox Feature*	Text SIG	A absence The control of the contro	e of indi Pore Linii edox Dar epleted E edox Der adrors for bast Prai ban-Mang ery Shall ther es X econdar Soil Crac e Patterm son Wat	emarks emarks emarks emarks emarks emarks emarks ng, M=M k Surfact Dark Surforession: Problemarie Redo anese M ow Dark No y Indica cks (B6) ss (B10) er Table	latrix la) ic Soils
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belc Thick Dark Su ictive Layer (if Remarks: COLOGY Surface Wate High Water Ta Saturation (A3 Water Marks	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) 3) (B1)	face (A11)	Color 10YR 6/6 Don, RM=Redu (check all tha Water Aquati True A Hydrog	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Sandy I Stained Coamy Loamy Loamy Loamy Loamy Loamy Coamy Loamy L	Type C Trix, CS Soil I Mucky J Gleyec Redox d Matr Mucky Gleyec Gley	Redox Feature Re	Text SIG	ion: PL=F X Re Re Indica Co Irc Ve Ot Se Surface Crayfish	Pore Lininedox Darepleted Dedox Departors for coast Praid Person Mangery Shall where Soil Crace Patterns son Watt Burrows	emarks emarks emarks emarks emarks emarks ck Surface cark Surface	latrix le (F6) face (F7s (F8) stic Hydrix (A16) asses (If Surface) ic Soils F12) (F12)
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) posits (B2)	face (A11)	Color 10YR 6/6 On, RM=Redu (check all tha Water Aquati True A Hydrog Oxidiz	ced Mat Hydric Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhize	Type C C C C C C C C C C C C C	Redox Feature Re	Text SIG	A absence The control of the contro	Pore Lining edox Darepleted Dedox Department of the control of the	emarks emarks emarks emarks emarks emarks ck Surface cark Surface	latrix le (F6) face (F7s (F8) stic Hydrix (A16) asses (If Surface tors (C2)) ic Soils F12) (F12)
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY INTERIOR OF COLOGY	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4)	face (A11)	Color 10YR 6/6 10YR 6/6 Don, RM=Reduction (Check all that water Aquati True A Hydrog Oxidiz Preser Recen	ced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf gen Sulf gen Sulf ed Rhize nce of R t Iron Ro	Type C C C C C C C C C C C C C	Redox Feature Re	Text SIG	A Record of the control of the contr	e of indi Pore Linin edox Dar epleted E epleted E epleted S and	emarks emarks	latrix le (F6) face (F7s (F8) stitc Hydrix (A16) asses (If Surface tors (C2) fall Imagets (D1)) ic Soils F12) (F12)
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	C=Concentr On (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Print r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5)	face (A11) Type: Depth (Inches):	Color 10YR 6/6 10YR 6/6 On, RM=Reduction (check all that water Aquation True A Hydrog Oxidiz Preser Recen Thin M	ced Mat Hydric Sandy I Sandy I Sandy I Stripper Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf gen Sulf gen Sulf t Iron Ro fluck Sul	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved (B14) dor (C1) rese on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	Text SIG	A Been Control of the	e of indi Pore Linin edox Dar epleted E epleted E epleted S and	emarks emarks	latrix le (F6) face (F7s (F8) stitc Hydrix (A16) asses (If Surface tors (C2) fall Imagets (D1)) ic Soils F12) (F12)
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr On (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri	face (A11) Type: Depth (Inches):	Color 10YR 6/6 10YR 6/6 On, RM=Reduction (check all that water Aquation True A Hydrog Oxidiz Preser Recen Thin M	ced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf gen Sulf gen Sulf ed Rhize nce of R t Iron Ro	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved (B14) dor (C1) rese on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	Text SIG	A Record of the control of the contr	e of indi Pore Linin edox Dar epleted E epleted E epleted S and	emarks emarks	latrix le (F6) face (F7s (F8) stitc Hydrix (A16) asses (If Surface tors (C2) fall Imagets (D1)) ic Soils F12) (F12)
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	C=Concentr Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr Calcal (A4) Calcal (A4) Calcal (A5) Calcal (A5) Calcal (A6)	iption: (Describ Matrix	Color 10YR 6/6 10YR 6/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes	seded to % 5 ced Mat Hydric Sandy I Scm Mu Sandy I Strippe Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhizo nce of R t Iron Re fluck Sul e or Well No	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) Mineral (F1) If Matrix (F2) mix (F3) Hydric Soil Preserved (S1) eas (B9) (B14) dor (C1) eas on Living Roots If Irilled Soil (C6) C7) (D9) Depth (inches)	**Locati	A second sture CL CL CL CL CL CL CL C	Pore Lining edox Dara epleted Eedox Dara epleted Eedox Dara epleted Eedox Dara etors for bast Praia on-Mangery Shall ether es X eecondar Soil Crare Pattern son Wat Burrows on Visible or Stress phic Posutral Tes	emarks emarks	latrix le (F6) face (F7s (F8) stitc Hydrix (A16) asses (If Surface tors (C2) fall Imagets (D1)) ic Soils F12) (F12)
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege	C=Concentr On (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) (B3) (Crust (B4) (B5) sible on Aeri etated Conc Surface W Water Tab	iption: (Describ Matrix	Color 10YR 6/6 10YR 6/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes X	seded to % 5 ced Mate Hydric Sandy I Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhizz nce of R t Iron R fluck Sui e or Well No No	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) ix Mineral (F1) ix (F3) Hydric Soil Preserved (S6) Hydric Soil Preserved (S6) Hydric Soil Preserved (S6) Hydric Soil Preserved (S6) Depth (inches) Depth (inches) Depth (inches) Depth (inches)	**Locati	A second state of the control of the	Pore Lining edox Dara epleted Eedox Dara epleted Eedox Dara epleted Eedox Dara en Ees X econdar Soil Crara e Pattern son Wat Burrows on Visible or Stress phic Posutral Tes	emarks emarks	latrix le (F6) face (F7s (F8) stitc Hydrix (A16) asses (If Surface tors (C2) fall Imagets (D1)) ic Soils F12) (F12)
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (I) Hydrogen Sul- Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vego Observations:	color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr con (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc Surface W Water Tab Saturation	iption: (Describ Matrix	Color 10YR 6/6 10YR 6/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes Yes X	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhize nce of R t Iron Re fluck Sul	Type C C ITIX, CS Soil I Mucky J CRedox d Matr Mucky Gleyed A (B13) Plants ide Ocospher educte eduction face (I Data X	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) Mineral (F1) If Matrix (F2) mix (F3) Hydric Soil Preserved (S1) eas (B9) (B14) dor (C1) eas on Living Roots If Irilled Soil (C6) C7) (D9) Depth (inches)	**Locati	A second state of the control of the	Pore Lining edox Dara epleted Eedox Dara epleted Eedox Dara epleted Eedox Dara etors for bast Praia on-Mangery Shall ether es X eecondar Soil Crare Pattern son Wat Burrows on Visible or Stress phic Posutral Tes	emarks emarks	latrix le (F6) face (F7s (F8) stitc Hydrix (A16) asses (If Surface tors (C2) fall Imagets (D1)) ic Soils F12) (F12)

Site:			e-W.Millersport			airfield County	Date:		2024 Data Po	
	igator(s):	AEP N. Houk, N		_State: OH_	_Section, Tov	vnship, Range: Landform	Mo	oraines	11, T 15N, R 19 Local Relief	Concave
Slope		1-3	Lat. 3 g silt loam, 2 to 6	89.793217	Long.	-82.621980	Datum	NAD83	NWI Class:	PEM
		gic condition	ns typical for tim	e of year?	Y/N Y					
	Vegetation Vegetation		_ , •••			significantly disturbed naturally problematic				
	ormal Circumsta	ances Prese		es x		_ naturally problematic				
SUMN	MARY OF FIND		etation Present?	Yes x	No		1			
	-	Hydi	ric Soil Present?	Yes x	No	-	Is the [DP within a \	Wetland?	
Rema		Vetland Hyd	drology Present?	Yes x	No		Yes	x No		
VEGE	TATION									
Tree S	Stratum	Plot size:	30'	Absolute % Cover	Dominant Species	Indicator Statu	IS			
1.						_			nance Test W	
2. 3.									ominant specie CW, or FAC:	es that 1
4.								Total numbe	r of dominant	1
5.				0	Total Cover				oss all strata: ominant specie	s that
	Stratum	Plot size:	15'					,	CW, or FAC:	100.00
1. 2.	-								Index Worksh cover of:	eet
3.	-							OBL species FACW speci		
4. 5.						_		FAC species	0	x 2 x 3
Horb 9	Stratum	Plot size:	<i>E</i> '	0	Total Cover			FACU species UPL species		x 4
1.	Carex vulpinoi		<u>5</u>	100	Y	FACW	2	Total	100	200
2. 3.								Hydronhytic	Prevalence	
4.								Rapid	Test for Hydro	phytic Veg.
5. 6.						_			nance Test is >: lence Index is <	
7.						-		Morph	ological Adapta	ations*
8.				100	Total Cover				matic Hydrophytic	=
	y Vine Stratum	Plot size:	30'						rs of hydric soil gy must be pres	
1. 2.					-			dis	turbed or proble	ematic
	Remarks:	1		0	Total Cover			Hydroph Yes	nytic Vegetatio x No	on Present?
SOIL										
	Depth Pro		iption: (Descrit Matrix	pe to depth ne	eded to docu	ıment the indicator or Redox Featu		absence of	indicators.)	
	(inches)	Color	%	Color		e* Loc**	Text		Remarks	
	0-18	10YR 4/1	85	7.5YR 4/6	15 C	M	Si C	; L		
	*Type: (C=Concentr	ation, D=Depleti	on, RM=Redu	ced Matrix, CS Hydric Soil	S=Coated Sand grains	**Locati	on: PL=Pore	Lining, M=Mat	rix
	Histosol (A1)				Sandy Mucky				Dark Surface	
	Histic Epipedo Black Histic (A				5cm Mucky P Sandy Gleyed		-		ted Dark Surfac Depressions (
	_ Hydrogen Sulf	ide (A4)			Sandy Redox	(S5)	-	Indicators	s for Problemation	Hydric Soils
	Stratified Laye 2 cm Muck (A				Stripped Matr	rix (S6) / Mineral (F1)	-		Prairie Redox (langanese Mas	
	Depleted Belo	w Dark Surf			Loamy Gleye	d Matrix (F2)		Very S	Shallow Dark Su	
Restri	Thick Dark Su			Х	Depleted Mat	rix (F3)		Other		
		observed).				Hydric Soil Pro	esent?	Yes	x No	
	ictive Layer (if	observed):	Depth (Inches)							
		observed):	Depth (Inches)	:						
HYDR	ictive Layer (if Remarks:	ndicators:			at annied	,,				
HYDR	ictive Layer (if Remarks:	ndicators:		(check all tha	at apply) Stained Leav				ndary Indicato Cracks (B6)	rs
HYDR	Remarks: OLOGY nd Hydrology Surface Water High Water Ta	ndicators: Prir (A1) ble (A2)		(check all tha	Stained Leav c Fauna (B13	es (B9)		Secoi Surface Soil Drainage Pa	Cracks (B6) tterns (B10)	
HYDR	Remarks: COLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (ndicators: Prin (A1) ble (A2)) B1)		(check all that Water Aquati	Stained Leav c Fauna (B13 quatic Plants gen Sulfide Od	es (B9)) (B14) dor (C1)		Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur	Cracks (B6) htterns (B10) Water Table (Crows (C8)	C2)
HYDR	Remarks: COLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	ndicators: Prir (A1) ble (A2)) B1) osits (B2)		(check all tha Water Aquati True A Hydroo x Oxidiz	Stained Leav c Fauna (B13 quatic Plants gen Sulfide Od ed Rhizosphe	es (B9)) (B14) dor (C1) res on Living Roots		Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	Cracks (B6) tterns (B10) Water Table (Crows (C8) isible on Aerial	C2) Imagery (C9)
HYDR	Remarks: COLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	indicators: Prin (A1) bble (A2)) B1) osits (B2) (B3) rust (B4)		(check all that Water Aquati True A Hydrog x Oxidiz Preser Recen	Stained Leav c Fauna (B13 quatic Plants gen Sulfide Oced Rhizosphe nce of Reduce t Iron Reducti	es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6)	x	Secol Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	Cracks (B6) tterns (B10) Water Table (Crows (C8) isible on Aerial tressed Plants Position (D2)	C2) Imagery (C9)
HYDR	Remarks: COLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	Indicators: Prin (A1) ble (A2) B1) osits (B2) (B3) rust (B4) (B5)	mary Indicators	(check all that Water Aquati True A Hydrog x Oxidiz Preser Recen Thin M	Stained Leav c Fauna (B13 quatic Plants gen Sulfide Oced Rhizosphe nce of Reduce t Iron Reducti luck Surface (es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6)	x	Secoi Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	Cracks (B6) tterns (B10) Water Table (Crows (C8) isible on Aerial tressed Plants Position (D2)	C2) Imagery (C9)
HYDR Wetla	Remarks: COLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege	ndicators: Prir (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aeri	mary Indicators al Imagery (B7) ave Surface	Check all the Water Aquati True A Hydro x Oxidiz Preser Recen Thin M Guage Other	Stained Leav c Fauna (B13 quatic Plants gen Sulfide Or ed Rhizosphe nce of Reducti Tuck Surface (e or Well Data	es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7) (D9)	x	Secol Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	Cracks (B6) tterns (B10) Water Table (Crows (C8) isible on Aerial tressed Plants Position (D2)	C2) Imagery (C9)
HYDR Wetla	Remarks: COLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	ndicators: Prir (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aeri stated Conc	mary Indicators al Imagery (B7) ave Surface //ater Present?	(check all that Water Aquati True A Hydrog x Oxidiz Preser Recen Thin M Guage Other	Stained Leav c Fauna (B13 Aquatic Plants gen Sulfide Or ed Rhizosphe cree of Reducet Iron Reducti luck Surface (e or Well Data	es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches)		Secon Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic FAC-Neutral	Cracks (B6) tterns (B10) Water Table (Crows (C8) isible on Aerial tressed Plants Position (D2) Test (D5)	C2) Imagery (C9)
HYDR Wetla	Remarks: COLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Observations:	Indicators: Print (A1) bble (A2) bsle (A2) bsits (B2) (B3) rust (B4) (B5) bble on Aeri etated Conce Surface W Water Tab Saturation	al Imagery (B7) ave Surface /ater Present? ble Present? Present?	(check all that Water Aquati True A Hydrog x Oxidiz Preser Recent Thin Maguage Other Yes	Stained Leav c Fauna (B13 quatic Plants gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reducti luck Surface (or Well Data No x No x No x	es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7) (D9)	x x	Secol Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	Cracks (B6) tterns (B10) Water Table (Crows (C8) isible on Aerial tressed Plants Position (D2) Test (D5)	C2) Imagery (C9)

			e-W.Millersport	_City/County:			irfield County	Date:		h 2024 D		UPL-50
Client: Invest	: igator(s):	AEP N. Houk, N	I. Barnett	_State: OH	_Sectio	n, Iowi	nship, Range: Landform	М	oraines	S11, T 15N Local Re		Convex
Slope	(%):	2-5	Lat.	39.793193	Long.		-82.622009	Datum		NWI Cla		N/A
Soil M	lap Unit Name:	Centerburg	silt loam, 2 to one typical for time	6 percent slope	es, erode Y/N	ed Y						
	Vegetation			N or Hy	drology		significantly disturbed					
	Vegetation	n <u>N</u>	, Soil	N or Hy	drology		naturally problematic					
	ormal Circums		ent? Y	'es <u>x</u>	No							
		ophytic Vege	etation Present?		No	Х						
	,		ric Soil Present? Irology Present?		No No	X		Is the I	DP within No	a Wetland [*] x	?	
Rema	rks:	Wolland Hyd	relegy i recent.	100	110	Λ		1100	110			
VEGE	TATION			Absolute %	Dom	inant						
Tree S	Stratum_	Plot size:	30'	Cover		cies	Indicator Status	S				
1.									_	minance T		
2. 3.	-			-						f dominant FACW, or F	•	at 0
4.					-		-			ber of domi		2
5.				0	Tatal C					cross all str		
Shrub	Stratum	Plot size:	15'		Total C	over				FACW, or F	•	0.00
1.									Prevalence	e Index W	orksheet	
2. 3.									Total OBL spec	% cover <u>of:</u>	0 x 1	
3. 4.									FACW spec		0 x 1	
5.									FAC spec		5 x 3	15
Herb S	Stratum	Plot size:	5'	0	Total C	over			FACU speci		75 x 4 20 x 5	
1.	Setaria faberi	i		70		<u> </u>	FACU	4	Tot	al	100	415
2.	Zea mays res Panicum virga			<u>20</u> 5		<u>/</u>	UPL FAC	5	Llyrdu o mby		lence Inde	
3. 4.	Rubus allegh			5		<u>, </u>	FACU	3 4		rtic Vegeta oid Test for		
5.									Don	ninance Te	st is >50%)
6. 7.										valence Ind phological		
8.										elematic Hydr		
\^/l-	\/:n n Ctuntuum	Dist sins.	201	100	Total C	over			*Indica	tors of hydi	ric soil and	wetland
1.	v Vine Stratum	Piot Size:	30						,	logy must b	•	
2.										disturbed or	•	
	Remarks:	1		0	Total C	over			Hyard Yes	phytic Vec	•	resent?
SOIL												
	Depth		ption: (Descril Matrix	be to depth ne	eded to	docui	ment the indicator or on the Redox Featu		absence	of indicato	rs.)	
	(inches)	Color	%	Color	%	Type'	Loc**	Text	ure	Rema	rks	
	0-18	10YR 4/3	100					Si C	CL			
	*Type:	C=Concentr	⊥ ation, D=Deplet	⊥ ion, RM=Redu	ced Mat	rix, CS	=Coated Sand grains	**Locati	on: PL=Po	re Lining, N	Л=Matrix	
	Historal (A1)						ndicators:		Poo	lox Dark Su	rfood (EG)	
	Histosol (A1) Histic Epiped	on (A2)					Mineral (S1) eat or Peat	:		oleted Dark	` ,	
	Black Histic (A3)			Sandy (Gleyed	Matrix (S4)	:	Rec	lox Depress	sions (F8)	,
	Hydrogen Sul Stratified Lay				Sandy I Stripped					ors for Prob ast Prairie R		
	2 cm Muck (A	\10) [`]			Loamy	Mucky	Mineral (F1)			-Manganes	,	,
	Depleted Belo		ace (A11)				Matrix (F2)	:		y Shallow D	ark Surfac	ce (F12)
Restri	Thick Dark Suictive Layer (if		Type:		Deplete	ed iviatr	IX (F3)		Oth	er		
			Depth (Inches)	:			Hydric Soil Pre	esent?	Yes	. N	o x	
	Remarks:											
	nd Hydrology											
	Surface Wate		nary Indicators		at apply Stained		s (R9)			condary Incomo oil Cracks (
	High Water T				ic Fauna					Patterns (B		
	Saturation (A				Aquatic F					on Water Ta		
	Water Marks Sediment De				gen Sulf ed Rhiza		or (C1) es on Living Roots			Burrows (C8		igery (C9)
	Drift Deposits						d Iron (C4)		Stunted or	r Stressed I	Plants (D1	
	Algal Mat or (n in Tilled Soil (C6)	lacksquare		nic Position		
	Iron Deposits Inundation Vi		al Imagery (B7)		fluck Sur or Well				rac-neut	ral Test (D))	
	Sparsely Veg	etated Conc	ave Surface	Other								
Field	Observations		ater Present? le Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydral	ov Indiast	ors Preser	nt?	
		Saturation		Yes	No	X X	Depth (inches)	i iyurol	oy indicat Yes			
Descri	ihe Recorded [us inspections) if avail	able.				

Site: Client:		-S.Baltimore AEP	e-W.Millersport			Fairfield County ownship, Range:	_Date:	27 March 2024 Data Point: Sec S14, T 15N, R 19W	_ WL-41
	igator(s):	L. Vine, E.				Landform		Plains Local Relief	Concave
Slope		A otno cilt l		9.774841°	_Long	-82.628062°	Datum	NAD83 NWI Class:	PEM
			oam, fan, occas	e of year?	Y/N Y				
	Vegetation	N	, Soil	N or Hy		significantly disturbed			
Are No	Vegetation ormal Circumsta		.,	N or Hy 'es x	rdrology N	naturally problematic			
	IARY OF FIND	INGS							
	Hydro		etation Present? ric Soil Present?		_No 	_	le the DE	within a Wetland?	
	V		rology Present?		No	_	Yes	X No	
VEGE	TATION								
		Districts	001	Absolute %	Dominan	In dianta a Otata			
	Stratum_	Plot size:	30'	Cover	Species	Indicator Statu	ıs		
1. 2.							N	Dominance Test Work umber of dominant species th	nat
3.							aı	re OBL, FACW, or FAC:	7
4. 5.								otal number of dominant pecies across all strata:	9
				0	Total Cover		P.	ercent of dominant species th	nat
Shrub 1.	Stratum Rubus alleghe	Plot size:	15'	5	Υ	FACU		re OBL, FACW, or FAC: revalence Index Worksheet	
2.	Trubus allegile	THEHSIS			- '			Total % cover of:	
3.								BL species $\frac{1}{1}$ x 1 ACW species $\frac{1}{35}$ x 2	
4. 5.							F.	AC v species 30 x 3	
luant C	Name de como	Districts		5	Total Cover		F	ACU species 8 x 4	
1.	Stratum Verbena urticii	Plot size: folia	5	20	Υ	FAC	3	PL species 0 x 5	5 <u>0</u> 193
2.	Phalaris arund			20	Y	FACW	2	Prevalence Inde	ex: 2.61
3. 4.	Physostegia v			<u>15</u> 15	N N	FACW OBL	2 H	ydrophytic Vegetation Indic Rapid Test for Hydrophy	
5.	Carex frankii			10	N	OBL	1	x Dominance Test is >50%	6
6. 7.	Juncus tenuis Carex musking			<u>10</u> 5	N N	FAC OBL	3	x Prevalence Index is <3.0 Morphological Adaptatio	
8.	Setaria faberi			3	N	FACU	4	Problematic Hydrophytic Ve	
///ood/	Vine Stratum	Plot size:	30'	98	Total Cover			*Indicators of hydric soil and	
1.	V VIIIC Ottataini	1 101 3120.						hydrology must be present	
2.					Total Cover			disturbed or problems Hydrophytic Vegetation F	
F	Remarks:			0	Total Cover			Hydrophytic Vegetation F Yes X No	
		ofile Descri	ntion: (Descri	-		cument the indicator or	confirm a	Hydrophytic Vegetation F Yes X No	
F		l	Matrix	be to depth ne	eeded to do	cument the indicator or Redox Feat	ures	Hydrophytic Vegetation F Yes X No bsence of indicators.)	
F	Pro Depth (inches)	Color	Matrix %	oe to depth ne	eeded to doo	Redox Feat	ures Textur	Hydrophytic Vegetation F Yes X No bsence of indicators.)	
F	Pro Depth	Color 10YR 4/2 10YR 4/2	Matrix % 95 85	be to depth ne	eeded to do	Redox Feature Redox Feature	res Textur SiL SiL	Hydrophytic Vegetation F Yes X No bsence of indicators.) Remarks	
F	Depth (inches) 0-10	Color 10YR 4/2	Matrix % 95	Color 10YR 4/6	eeded to doo	Redox Feat	ures Textur SiL	Hydrophytic Vegetation F Yes X No bsence of indicators.) Remarks	
F	Depth (inches) 0-10 10-13 13-18	Color 10YR 4/2 10YR 4/2 10YR 2/1	Matrix	Color 10YR 4/6 10YR 4/6	% Typ 5 (Redox Feati	res Textur SiL SiL	Hydrophytic Vegetation F Yes X No bsence of indicators.) Remarks	
F	Depth (inches) 0-10 10-13 13-18	Color 10YR 4/2 10YR 4/2 10YR 2/1	Matrix	Color 10YR 4/6 10YR 4/6	% Typ 5 (15 (Redox Feati	Textur SiL SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) Remarks	
F	Depth (inches) 0-10 10-13 13-18	Color 10YR 4/2 10YR 4/2 10YR 2/1	Matrix	Color 10YR 4/6 10YR 4/6	% Typ 5 C 15 C	Redox Feati	Textur SiL SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks	Present?
F	Depth (inches) 0-10 10-13 13-18 *Type: (Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentra	Matrix	Color 10YR 4/6 10YR 4/6	% Tyl 5 C 15 C ced Matrix, (Hydric Soi Sandy Muck	Redox Feato Pe* Loc** M M S=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat	Textur SiL SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Present?
F	Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentri	Matrix	Color 10YR 4/6 10YR 4/6	5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Redo	Redox Feating Re	Textur SiL SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) Remarks Remarks PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (F8) Indicators for Problematic Hy	Present?
F	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentra on (A2) (A3) (de (A4) (rs (A5)	Matrix	Color 10YR 4/6 10YR 4/6	seded to doo % Typ 5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma	Redox Feating Re	Textur SiL SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks n: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1)	Present?
F	Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentra on (A2) 3) ide (A4) ors (A5)	Matrix % 95 85 100 ation, D=Depleti	Color 10YR 4/6 10YR 4/6	seded to doo % Typ 5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma Loamy Muc	Redox Feating Re	Textur SiL SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) Remarks Remarks PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (F8) Indicators for Problematic Hy	Present?) F7) rdric Soils 6) s (F12)
SOIL	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix 95 85 100 ation, D=Depleti	Color 10YR 4/6 10YR 4/6	seded to doo % Typ 5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma Loamy Muc	Redox Feative Re	Textur SiL SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks n: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses	Present?) F7) rdric Soils 6) s (F12)
SOIL	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix 95 85 100 ation, D=Depleti ace (A11) Type:	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	5 (CHydric Soi Sandy Muck Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Redox Feating Redox Redo	Textur SiL SiL SiCL **Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surface Other	Present?) F7) rdric Soils 6) s (F12)
SOIL	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix 95 85 100 ation, D=Depleti	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	5 (CHydric Soi Sandy Muck Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Redox Feative Re	Textur SiL SiL SiCL **Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks n: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surfa	Present?) F7) rdric Soils 6) s (F12)
Restri	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY	Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentra (A2) (A3) (ide (A4) (rs (A5) 10) w Dark Surf (rface (A12) observed):	Matrix 95 85 100 ation, D=Depleti ace (A11) Type:	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	5 (CHydric Soi Sandy Muck Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Redox Feating Redox Redo	Textur SiL SiL SiCL **Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surface Other	Present?) F7) rdric Soils 6) s (F12)
Restri	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology I	C=Concentrion (A2) (A5) (A2) (A2) (A2) (A3) (A4) (A5) (A5) (A6) (A7) (A7) (A8) (A8) (A9) (A9) (A9) (A1) (A1) (A2) (A3) (A3) (A4) (A5) (A5) (A9) (A1) (A1) (A2) (A3) (A3) (A4) (A5) (A5) (A5) (A6) (A7) (A7)	Matrix 95 85 100 ation, D=Depleti ace (A11) Type:	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	seded to door 15 Control 15 Contr	Redox Feato Redox Feato Redox Feato M S M S S=Coated Sand grains Indicators: ry Mineral (S1) Peat or Peato red Matrix (S4) ry (S5) trix (S6) ry Mineral (F1)	res Textur SiL SiL SiCL ***Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks n: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surfa Other Yes X No Secondary Indicators	Present?) F7) rdric Soils 6) s (F12)
Restri	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Inches) *Type: (Inches) *Typ	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentra on (A2) 3) inde (A4) irs (A5) 10) w Dark Surf rface (A12) observed): Indicators: Print (A1)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu	seded to doo % Typ 5 (Color Color	Redox Feato De* Loc** M De M D	res Textur SiL SiL SiCL ***Location esent?	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks Remarks Remarks Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surface Other Yes X No Secondary Indicators urface Soil Cracks (B6)	Present?) F7) rdric Soils 6) s (F12)
Restri- HYDR Wetlan X X	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentri (A2) (A3) (ide (A4) (rs (A5) (10) (w Dark Surf (rface (A12) (observed): Indicators: Prin (A1) (ble (A2) ()	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu (check all the Mater Aquati True A	seded to doo % Typ 5 (15 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant	Redox Feato De* Loc** M S M CS=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat Bed Matrix (S4) By Mineral (F1) By Mineral (F1) By Mineral (F2) By Mineral (F3)	Textur SiL SiCL	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surfa Other Yes X No Secondary Indicators urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2)	Present?) F7) rdric Soils 6) s (F12)
Restri- HYDR Wetlan X X	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri (A2) (A3) ide (A4) ors (A5) 10) w Dark Surf rface (A12) observed): Indicators: Prin (A1) ible (A2) (B1) (B1)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu Godern 10YR 4/6 Water Aquati True A	seded to doo % Typ 5 C 15 C 15 C Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide (C)	Redox Feato De* Loc** M De M D	#*Location esent? SiL SiC	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surfa Other Yes X No Secondary Indicators urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8)	Present?
Restri- HYDR Wetlan X X	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri (A2) (A3) (A4) (A5) (A5) (A5) (A6) (A6) (A7) (A1) (A1) (A1) (A1) (A2) (B3)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General Head of the Water Aquati True Aquati Hydro Oxidiz Preset	seded to door wheeled to door	Redox Feato De* Loc** M CS=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat Ed Matrix (S4) Exy Mineral (F1) Ed Matrix (F3) Hydric Soil Pr Wes (B9) 3) S (B14) Odor (C1) Eres on Living Roots Ed Iron (C4)	#*Location esent? SiL **Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The Remarks The Remarks The Redox Dark Surface (F6) Depleted Dark Surface (F8) Depleted Dark Surface (F8) Indicators for Problematic Hy Coast Prairie Redox (A1) Iron-Manganese Masses Very Shallow Dark Surface Other Yes X No Secondary Indicators urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imatunted or Stressed Plants (D1)	Present?
Restri- HYDR Wetlan X X	Production	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prin (A1) able (A2) b) B1) osits (B2) (B3) rust (B4)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General Water Aquati True A Hydrog Oxidiz Presei Recen	seded to door with the	Redox Feato De* Loc** M S M CS=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat Ed Matrix (S4) Ex (S5) Ex Mineral (F1) Ed Matrix (F2) Ed Matrix (F3) Hydric Soil Pr Wes (B9) S (B14) Dodor (C1) Eres on Living Roots Ed Iron (C4) Etion in Tilled Soil (C6)	esent? SiL SiCL **Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks n: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surfac Other Yes X No Secondary Indicators urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imatunted or Stressed Plants (D1) recomorphic Position (D2)	Present?
Restri- HYDR Wetlan X X	Production Depth (inches) 0-10 10-13 13-18 *Type: (Inches) 13-18 *Type: (Inches) *Type:	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentra on (A2) 3) ide (A4) irs (A5) 10) w Dark Surf rface (A12) observed): Indicators: Prin (A1) ible (A2)) B1) oosits (B2) (B3) rust (B4) (B5)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General Hammer Aquati True A Hydro Oxidiz Presei Recen Thin M	seded to door wheeled to door	Redox Feato Redox Feato Redox Feato M S	esent? SiL SiCL **Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The Remarks The Remarks The Redox Dark Surface (F6) Depleted Dark Surface (F8) Depleted Dark Surface (F8) Indicators for Problematic Hy Coast Prairie Redox (A1) Iron-Manganese Masses Very Shallow Dark Surface Other Yes X No Secondary Indicators urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imatunted or Stressed Plants (D1)	Present?
Restri HYDR Wetlan	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentri In (A2) In (A2) In (A2) In (A3) In (A4) In (A5) In (A5) In (A5) In (A6) In (A2) In (A6) In (A	Matrix 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches) nary Indicators	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu Guerry Aquati True A Hydro Oxidiz Prese Recen Thin M Guage Other	seded to doo % Typ 5 (C) 15 (C) 15 (C) 15 (C) Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muc Loamy Gley Cany Gley Sandy Redo Stripped Ma Loamy Huc Loamy Gley Sandy Redo Stripped Ma Loamy Huc Loamy Gley Cany Gley Cany Gley Depleted Ma Loamy Gley Depleted Ma Loamy Gley	Redox Feative* C M CS=Coated Sand grains Indicators: Ty Mineral (S1) Peat or Peat Ed Matrix (S4) Exy Mineral (F1) Ed Matrix (F2) Ed Matrix (F3) Hydric Soil Pr Ves (B9) 3) S (B14) Odor (C1) Eres on Living Roots Ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	esent? SiL SiCL **Location	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks n: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surfac Other Yes X No Secondary Indicators urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imatunted or Stressed Plants (D1) recomorphic Position (D2)	Present?
Restri HYDR Wetlan	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Beloo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentri (A2) (A3) ide (A4) (A5) (B3) w Dark Surf (Frace (A12) Observed): Indicators: Prin (A1) (B3) (B3) rust (B4) (B3) ible on Aeria etated Conce Surface W	Matrix 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches) nary Indicators al Imagery (B7) ave Surface ater Present?	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu ion, RM=Redu Water Aquati True A Hydro Oxidiz Presee Recen Thin M Guage Other	seded to doo % Typ 5 (C) 15 (C) 15 (C) 15 (C) Hydric Soi Sandy Muck- Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted Ma Loamy Gley Depleted Ma Loamy Gley Company Gley Com	Redox Feato De* Loc** M CS=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat Ed Matrix (S4) Ex (S5) Extrix (S6) Extrix (S6) Extrix (F3) Hydric Soil Pr Wes (B9) 3) S (B14) Dodor (C1) Eres on Living Roots Ed Iron (C4) Etion in Tilled Soil (C6) (C7) a (D9) Depth (inches)	#*Location esent? SiL SiC	Hydrophytic Vegetation F Yes X No bsence of indicators.) The Remarks The PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Massee Very Shallow Dark Surface Other Yes X No Secondary Indicators Urface Soil Cracks (B6) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Trainage Patterns (B10) Ty-Season Water Table (C2) Trayfish Burrows (C8) Tra	Present?
Restri- HYDR Wetlan X X	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentri (A2) 3) ide (A4) rs (A5) 10) w Dark Surf rface (A12) observed): Prin (A1) ible (A2) i) B1) osits (B2) (B3) rust (B4) (B5) ible on Aeria etated Conce Surface W Water Tab Saturation	Matrix 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	Color 10YR 4/6 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General State of the state	seded to door with the control of th	Redox Feato De* Loc** M CS=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat Bed Matrix (S4) By Mineral (F1) By Mineral (F1) By Mineral (F1) By Mineral (F2) By Mineral (F3) By Mineral (F4) By Mi	esent? Hydroloy	Hydrophytic Vegetation F Yes X No bsence of indicators.) e Remarks n: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6 Depleted Dark Surface (Redox Depressions (F8) Indicators for Problematic Hy Coast Prairie Redox (A1 Iron-Manganese Masses Very Shallow Dark Surfac Other Yes X No Secondary Indicators urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imatunted or Stressed Plants (D1) recomorphic Position (D2)	Present?

Site:			e-W.Millersport				airfield County	Date:		PL-41
Client:	: tigator(s):	AEP L. Vine, E.	Holt	State: OH	_Sectio	n, Tov	nship, Range: Landform	Flor	Sec S14, T 15N, R 19W od Plains Local Relief Conve	x
Slope	(%):		Lat. 3	9.774898°	Long.		'-82.628027°	Datum		^
			oam, fan, occas			.,		-		
C	imatic/nydroio Vegetatior		ns typical for time , Soil	e or year <i>?</i> N or Hy	Y/N drology		significantly disturbed			
	Vegetation	n N	, Soil I	N or Hy	drology		naturally problematic			
	ormal Circumst MARY OF FIND		ent? Y	es x	No		-			
SOIVIIV			etation Present?	Yes	No					
	-	Hydi	ric Soil Present?	Yes X	No		- -		DP within a Wetland?	
	V	Vetland Hyd	Irology Present?	Yes	No	X		Yes	No	
VEGE	TATION									
Tree S	Stratum	Plot size:	30'	Absolute %	Dom		Indicator Statu	S		
1.	<u> </u>			Cover	Spe	cies			Dominance Test Worksheet	
2.									Number of dominant species that	3
3.				-			-		are OBL, FACW, or FAC: Total number of dominant	J
4. 5.							-		species across all strata:	8
				0	Total C	over	-, -		Percent of dominant species that	7.50
	Stratum Rubus alleghe	Plot size:	15'	15	,	1	FACIL	4	are OBL, FACW, or FAC: Prevalence Index Worksheet	7.50
1. 2.	Rubus occen			5			FACU UPL	<u>4</u> 5	Total % cover of:	
3.	Elaeagnus an	gustifolia		5		1	FACU	4	OBL species 1 x 1	1
4. 5.					-				FACW species 0 x 2 FAC species 10 x 3	30
J.	-			25	Total C	over			FACU species 90 x 4	360
	Stratum_	Plot size:							UPL species 15 x 5	75
1. 2.	Schedonorus Brassica rapa		us				FACU UPL	<u>4</u> 5	Total 116 Prevalence Index:	466 4.02
3.	Plantago majo			10	<u> </u>		FAC		Hydrophytic Vegetation Indicators:	4.02
4.	Carex frankii			10		١	OBL	1	Rapid Test for Hydrophytic Veg	
5. 6.									Dominance Test is >50% Prevalence Index is ≤3.0*	
7.	-								Morphological Adaptations*	
8.				100					Problematic Hydrophytic Vegetation	*
Wood	v Vine Stratum	Plot size.	30'	100	Total C	over			*Indicators of hydric soil and wetla	
1.	VIIIC Otratum	1 101 3120.	30						hydrology must be present, unles disturbed or problematic	S
2.					Total C	01/05	-		Hydrophytic Vegetation Present	
	Remarks:			0	Total C	over			Yes No X	Lf
SOIL	D-	ofilo Donori	intion: /Decerib	o to douth no		. daa.	mont the indicator or	nfi - m	a shapped of indicators \	
	Pr			se to depth ne	eaea t	aocu			n absence of indicators.)	
	Depth		Matrix	· ·			Redox Featu			
	(inches)	Color	Matrix %	Color	%	Туре	Redox Feature*	res Tex	ture Remarks	
	(inches) 0-6	Color 10YR 3/3	% 100	Color			* Loc**	res Tex Sa	SiL	
	(inches)	Color	% 100 96		% 4	С		Tex Sa: Sa:		
	(inches) 0-6 6-9	Color 10YR 3/3 10YR 4/2	% 100 96	Color			* Loc**	Tex Sa: Sa:	SiL SiL	
	(inches) 0-6 6-9 9-18	Color 10YR 3/3 10YR 4/2 10YR 3/3	% 100 96 100	Color 10YR 5/6	4	С	* Loc**	res Tex Sa: Sa: Sa:	SiL SiL SiL	
	(inches) 0-6 6-9 9-18	Color 10YR 3/3 10YR 4/2 10YR 3/3	% 100 96 100	Color 10YR 5/6	4 ced Mat Hydric	rix, CS	M S=Coated Sand grains ndicators:	res Tex Sa: Sa: Sa:	SiL SiL SiL Sich Sich Sich Sich Sich Sich Sich Sich	
	(inches) 0-6 6-9 9-18 *Type:	Color 10YR 3/3 10YR 4/2 10YR 3/3	% 100 96 100	Color 10YR 5/6	4 ced Mat Hydric Sandy I	rix, CS	M S=Coated Sand grains ndicators: Mineral (S1)	res Tex Sa: Sa: Sa:	SiL SiL SiL Sich Sich Sich Sich Sich Sich Sich Sich	
	(inches) 0-6 6-9 9-18 *Type:	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr	% 100 96 100	Color 10YR 5/6	4 ced Mat Hydric Sandy I 5cm Mu	rix, CS Soil I	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Tex Sa: Sa: Sa:	SiL SiL SiL Sicion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7)	
	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedd Black Histic (A Hydrogen Sul	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4)	% 100 96 100	Color 10YR 5/6	4 ced Mat Hydric Sandy I 5cm Mu Sandy I Sandy I	rix, CS Soil I Mucky Jicky P Gleyed Redox	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5)	res Tex Sa: Sa: Sa:	SiL SiL SiL SiL tion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric So	ils
	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A) Hydrogen Sul Stratified Laye	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5)	% 100 96 100	Color 10YR 5/6	4 ced Mat Hydric Sandy I 5cm Mu Sandy I Sandy I Strippe	rix, CS Soil I Mucky Jicky P Gleyec Redox d Matr	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6)	res Tex Sa: Sa: Sa:	SiL SiL SiL SiL SiL SiL tion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric So Coast Prairie Redox (A16)	ils
	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul' Stratified Laye 2 cm Muck (A	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) 33) fide (A4) ers (A5) 10)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	d ced Mat Hydric Sandy I 5cm Mt Sandy I Stripped Loamy	rix, CS Soil I Mucky P Gleyed Redox d Matr Mucky	M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1)	res Tex Sa: Sa: Sa:	SiL	
	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A) Hydrogen Sul' Stratified Laye 2 cm Muck (A) Depleted Belo Thick Dark Su	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	d ced Mat Hydric Sandy I 5cm Mt Sandy I Stripped Loamy	rix, CS Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleye	M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2)	res Tex Sa: Sa: Sa:	SiL SiL SiL SiL SiL SiL tion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric So Coast Prairie Redox (A16)	
Restri	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I 5cm Mt Sandy I Strippe Loamy Loamy	rix, CS Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleye	M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2) rix (F3)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	
	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I 5cm Mt Sandy I Strippe Loamy Loamy	rix, CS Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleye	M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed):	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I 5cm Mt Sandy I Strippe Loamy Loamy	rix, CS Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleye	M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2) rix (F3)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed):	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy Deplete	rix, CS Soil I Mucky Jucky P Gleyec Redox d Matr Mucky Gleyec d Mat	M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2) rix (F3)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu (check all the Water	4 Ceed Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained	rix, CS Soil I Mucky P Gleyec Redox d Matr Mucky Gleyer d Mat	M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2) fix (F3) Hydric Soil Preses (B9)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (I) Hydrogen Sul- Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Surface Wate High Water Ta	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu (check all the Water Aquati	ced Mat Hydric Sandy I 5cm Mt Sandy I Stripper Loamy Loamy Deplete at apply Stained c Fauna	rix, CS Soil I Mucky Joky P Gleyed Redox d Matr Mucky Gleyed Mat Mucky Gleyed I Leave (B13)	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) d Matrix (F2) rix (F3) Hydric Soil Preses (B9)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: OLOGY Surface Wate High Water Ta Saturation (A3	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 8)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu (check all the Water Aquati	ced Mat Hydric Sandy I 5cm Mt Sandy I Stripper Loamy Loamy Deplete at apply Stained c Fauna	rix, CS: Soil I Mucky PGleyed Matr Mucky Gleyed	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) d Matrix (F2) rix (F3) Hydric Soil Process (B9) (B14)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sul ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) 33 fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 8) (B1) oosits (B2)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz	ced Mat Hydric Sandy I 5cm Mt Sandy I 5cm Mt Sandy I Comy Loamy Loamy Deplete Stained c Fauna quatic F gen Sulfed Rhize	rix, CS: Soil I Mucky PGleyed Matr Mucky Gleyed Matr Leave (B13) Plants ide Oosphel	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pro es (B9) (B14) dor (C1) res on Living Roots	Tex Sa: Sa: Sa: Sa: **Locat	SiL	2)
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sul ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) ide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) B) (B1) oosits (B2) (B3)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu on, RM=Redu (check all that Water Aquati True Aquati Hydroid Oxidiz Presei	ced Mat Hydric Sandy I Scm Mu Sandy I Strippee Loamy Loamy Deplete at apply Stained ac Faund aquatic F gen Sulf ged Rhize nce of R	rix, CS Soil I Mucky Jacky P Gleyed Redox d Matr Mucky Gleyed d Matr J Leave i (B13) Plants ide Ocopher educe	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) r Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9) (B14) dor (C1) es on Living Roots d Iron (C4)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	2)
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sul ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) B(B1) oosits (B2) (B3) Crust (B4)	% 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu on, RM=Redu Water Aquati True A Hydrog Oxidiz Preset Recen	ced Material	rix, CS Soil I Mucky Jacky P Gleyec Redox d Matr Mucky Gleyec d Matr J Leave id Earl ide Oc pelants	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9) (B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	2)
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul- Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY IN Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) B) (B1) cosits (B2) (B3) crust (B4) (B5) sible on Aeri	### 100 96 100 ation, D=Depleti ### Type: Depth (Inches): mary Indicators mary Indicators	Color 10YR 5/6 on, RM=Redu on, RM=Redu Water Aquati True A Hydroi Oxidiz Presei Recen Thin M Guage	ced Mat Hydric Sandy I Scm Mu Sandy I Strippee Loamy Loamy Deplete at apply Stained ac Faund aquatic F gen Sulf ged Rhize nce of R	rix, CS Soil Mucky Jucky P Gleyec Redox d Matr Mucky Gleyec d Mat Leave I (B13) Plants ide Octoophel educe eduction	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	2)
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (I) Hydrogen Sul- Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) B) (B1) oosits (B2) (B3) (B5) crust (B4) (B5) sible on Aerietated Concentre	### 100 ### 96 ### 100	Color 10YR 5/6 on, RM=Redu on, RM=Redu Water Aquati True A Hydroi Oxidiz Presei Recen Thin M Guage Other	ced Mat Hydric Sandy I 5cm Mt Sandy I 5cm Mt Sandy I Stripper Loamy Loamy Loamy Stained c Fauna quatic F gen Sulf ed Rhizo nce of R t Iron Ro luck Sule or Well	rix, CS Soil Mucky Jucky P Gleyed Redox d Matr Mucky Gleyed d Matr Micky Gleyed d Matr Micky Gleyed d Matr Micky Gleyed d Matr Micky Gleyed d Matr	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9) (B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)	Tex Sa: Sa: Sa: Sa: **Locat	SiL	2)
HYDR	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul- Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY IN Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) B) (B1) oosits (B2) (B3) (B5) sible on Aerietated Conc Surface W	### 100 ### 96 ### 100	Color 10YR 5/6 on, RM=Redu on, RM=Redu Water Aquati True A Hydroi Oxidiz Presei Recen Thin M Guage	ced Mate Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhiz nce of R t Iron R fluck Sul	rix, CS Soil Mucky Jucky P Gleyec Redox d Matr Mucky Gleyec d Mat Leave I (B13) Plants ide Octoophel educe eduction	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)	res Tex Sa: Sa: Sa: **Locat	SiL	2)
HYDR Wetla	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vego Observations:	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) 33) fide (A4) fide (A4) fide (A4) for (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 8) (B1) for (B3) frust (B4) (B5) sible on Aeri etated Conce Surface W Water Tab Saturation	### 100 ### 10	Color 10YR 5/6 on, RM=Redu on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes Yes	at apply Stained ac Fauna quatic Figen Sulfed Rhize ac or Well No No	rix, CS Soil I Mucky Jacky P Gleyed Redox Mucky Gleyed Matr Mucky Gleyed I (B13) Plants J Plants J Plants J Plants J J J J J J J J J J J J J J J J J J J	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9) (B14) for (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches) Depth (inches) Depth (inches) Depth (inches)	**Locat	SiL	2)
HYDR Wetla	(inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vego Observations:	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) 33 fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): indicators: Prin r (A1) able (A2) 8) (B1) cosits (B2) (B3) crust (B4) (B5) sible on Aeri etated Conc Surface W Water Tab Saturation cata (stream	### 100 ### 10	Color 10YR 5/6 on, RM=Redu on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes Yes	at apply Stained ac Fauna quatic Figen Sulfed Rhize ac or Well No No	rix, CS Soil I Mucky Jacky P Gleyed Redox Mucky Gleyed Matr Mucky Gleyed I (B13) Plants J Plants J Plants J Plants J J J J J J J J J J J J J J J J J J J	M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) d Matrix (F2) rix (F3) Hydric Soil Pro es (B9) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches) Depth (inches)	**Locat	SiL	2)

Site:			e-W.Millersport				airfield County	Date:	27 March 2024 Data	Point: WL-41A
Client: Invest	: tigator(s):	AEP L. Vine, E.	.Holt	State: OH	_Sectior	n, Tov	vnship, Range: Landform	Floo	od Plains Local Relief	Concave
Slope	(%):	-	Lat. 3	9.774189°	Long.		-82.628267°	Datum		PEM
Soil M	lap Unit Name:	Aetna silt	loam, fan, occas ns typical for tim	ionally flooded	Y/N	Υ				
	Vegetation	n N	, Soil I	N or Hy	drology	N	significantly disturbed			
A N.I	Vegetation		_ ,		drology	N	naturally problematic			
	ormal Circums		ent? Y	es <u>x</u>	No		_			
		ophytic Veg	etation Present?		No		=			
	,	, .	ric Soil Present? drology Present?		No No		=	Is the Yes	DP within a Wetland? X No	
		rrollana riye	arelegy i recent.	100 X	110			1100	Х 110	
VEGE	TATION			Absolute %	Domi	nant			I	
Tree S	Stratum_	Plot size:	30'	Cover	Spec		Indicator Statu	S		
1.							<u>.</u>		Dominance Test	
2. 3.									Number of dominant spec are OBL, FACW, or FAC	
4.									Total number of dominan	
5.				0	T-1-10-		-		species across all strata:	
Shrub	Stratum	Plot size:	15'		Total Co	over			Percent of dominant spec are OBL, FACW, or FAC	100 00
1.									Prevalence Index Works	
2. 3.									Total % cover of: OBL species 1	x 1 1
4.					-		-			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
5.					-		-			x 3 75
Herb S	Stratum	Plot size:	5'	0	Total Co	over				x 4 0 x 5 0
1.	Carex vulpino	oidea		20	Y		FACW	2	Total 66	156
2. 3.	Apocynum ca Carex muskir	annabinum Daumensis		15 10	N		FAC OBL	<u>3</u>	Prevalenc Hydrophytic Vegetation	
3. 4.	Epilobium col			10	N		OBL	1	Rapid Test for Hyd	
5.	Cinna arundii			10	N		FACW	2	x Dominance Test is	>50%
6. 7.	Poa pratensis Symphyotrich		rum	10 10	N		FAC FACW	<u>3</u>	x Prevalence Index is Morphological Ada	
8.	Lycopus ame			5	N		OBL	1	Problematic Hydrophy	
Mood	v Vine Stratum	Diet eize:	20'	90	Total Co	over			*Indicators of hydric s	
1.	y vine Stratum	_ FIUL SIZE.	30						hydrology must be pr	•
2.				0	Tatal Ca				disturbed or pro	
	Remarks:			U	Total Co	over			Hydrophytic Vegeta Yes X No	tion Fresent?
SOIL	D ₁	ofile Descr	intion: (Describ	e to denth ne	adad ta	doci	ment the indicator or	confirm	absence of indicators.)	
	Depth		Matrix	-			Redox Featu		absence of indicators.)	
	(inches)	Color 10YR 4/2	% 100	Color	%	Туре	* Loc**	Tex	ture Remarks	
	0-2 2-18	101R 4/2 10YR2/1	97	10YR 4/6	3	С	M	Si		
	*Type:	C=Concent	ration, D=Depleti	on, RM=Redu				**Locat	ion: PL=Pore Lining, M=M	atrix
	Histosol (A1)						Indicators: Mineral (S1)		X Redox Dark Surfac	e (F6)
	Histic Epiped				5cm Mu	cky P	eat or Peat		Depleted Dark Surf	ace (F7)
	Black Histic (A3)					d Matrix (S4)		Redox Depressions	` '
		fido (AA)				20401	(CE)		Indicators for Broblems	tia Uvdria Caila
	Hydrogen Sul Stratified Lay				Sandy F Stripped				Indicators for Problema Coast Prairie Redo	
	Stratified Lay	ers (À5) [°] \10)			Stripped Loamy	l Matr Mucky	ix (S6) Mineral (F1)		Coast Prairie Redo	x (A16) asses (F12)
	Stratified Lay 2 cm Muck (A Depleted Belo	ers (À5) [´] \10) ow Dark Sur			Stripped Loamy I Loamy (l Matr Mucky Sleye	ix (Ś6) ⁄ Mineral (F1) d Matrix (F2)		Coast Prairie Redo Iron-Manganese M Very Shallow Dark	x (A16) asses (F12)
Restri	Stratified Lay	ers (À5) [′] ∖10) ow Dark Sur urface (A12)	: Type:		Stripped Loamy	l Matr Mucky Sleye	ix (Ś6) ⁄ Mineral (F1) d Matrix (F2)		Coast Prairie Redo	x (A16) asses (F12)
	Stratified Lay 2 cm Muck (A Depleted Beld Thick Dark St ictive Layer (if	ers (À5) [′] ∖10) ow Dark Sur urface (A12)	. ,		Stripped Loamy I Loamy (l Matr Mucky Gleye	ix (Ś6) ⁄ Mineral (F1) d Matrix (F2)	esent?	Coast Prairie Redo Iron-Manganese M Very Shallow Dark	x (A16) asses (F12)
HYDR	Stratified Lay- 2 cm Muck (A Depleted Beld Thick Dark St ictive Layer (if Remarks:	ers (À5) [°] (10) ow Dark Sur urface (A12) f observed)	: Type: Depth (Inches):		Stripped Loamy I Loamy (l Matr Mucky Gleye	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)	esent?	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other	x (A16) asses (F12)
HYDR	Stratified Laying 2 cm Muck (And Depleted Below Thick Dark Strative Layer (if Remarks:	ers (À5) [°] A10) Ow Dark Sur Ourface (A12) Fobserved) Indicators:	: Type: Depth (Inches):		Stripped Loamy (Loamy (Deplete	I Matr Mucky Gleyed d Mat	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)	esent?	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No	x (A16) asses (F12) Surface (F12)
HYDR	Stratified Laying 2 cm Muck (And Depleted Below Thick Dark Strative Layer (if Remarks: COLOGY and Hydrology	ers (À5) [°] A10) bw Dark Sur urface (A12) f observed) Indicators: Pri	: Type: Depth (Inches):	(check all that	Stripped Loamy (Loamy (Depleted	I Matr Mucky Gleyed d Mat	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre	esent?	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica	x (A16) asses (F12) Surface (F12)
HYDR	Stratified Laying 2 cm Muck (A Depleted Below Thick Dark Strative Layer (if Remarks: ROLOGY and Hydrology Surface Water High Water T	ers (Å5) A10) A10) Dark Sur Lurface (A12) Fobserved) Indicators: Prii Pri (A1) able (A2)	: Type: Depth (Inches):	(check all that	Stripped Loamy N Loamy O Depleted at apply Stained c Fauna	I Matr Mucky Gleyedd Mat d Mat Leave (B13)	ix (S6) y Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre	esent?	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10)	x (A16) asses (F12) Surface (F12)
HYDR	Stratified Laying 2 cm Muck (ADDepleted Below Thick Dark Strative Layer (if Remarks: ROLOGY and Hydrology Surface Water High Water Tasturation (ADDept Surface Water Tasturation	ers (Å5) [°] A10) bw Dark Sur urface (A12) f observed) Indicators: Printer (A1) able (A2) 3)	: Type: Depth (Inches):	(check all the Water Aquati	Stripped Loamy I Loamy (Depleted at apply) Stained c Fauna Aquatic P	I Matr Mucky Gleyed d Mat Leave (B13)	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9) (B14)	esent?	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table	x (A16) asses (F12) Surface (F12)
HYDR	Stratified Laying 2 cm Muck (A Depleted Below Thick Dark Strative Layer (if Remarks: ROLOGY and Hydrology Surface Water High Water T	ers (Å5) [°] A10) bw Dark Sur urface (A12) f observed) Indicators: Prii er (A1) able (A2) 3) (B1)	: Type: Depth (Inches):	(check all the Water Aquati	Stripped Loamy I Loamy (Depleted at apply) Stained c Fauna Aquatic P gen Sulfii	I Matr Mucky Gleyed d Mat Leave (B13) lants de Od	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9) (B14)	esent?	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10)	x (A16) asses (F12) Surface (F12) tors
HYDR	Stratified Layı 2 cm Muck (A Depleted Belo Thick Dark St ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits	ers (Å5) A10) bw Dark Sur urface (A12) F observed) Indicators: Printer (A1) able (A2) 3) (B1) boosits (B2) F (B3)	: Type: Depth (Inches):	(check all the Water Aquati True A Hydro Oxidiz Preser	Stripped Loamy No Loamy Openhered Loamy Openhered Loamy Openhered Loam Loam Loam Loam Loam Loam Loam Loam	I Matr Mucky Gleyedd Mat Leave (B13) Ilants de Oosphei	es (B9) (B14) dor (C1) res on Living Roots dix (S6) r Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre		Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plan	x (A16) asses (F12) Surface (F12) tors (C2) al Imagery (C9) ts (D1)
HYDR	Stratified Laying and Market M	ers (Å5) A10) bw Dark Sur urface (A12) f observed) Indicators: Prii er (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4)	: Type: Depth (Inches):	(check all the Water Aquati True A Hydro: Oxidiz Presei Recen	Stripped Loamy N Loamy O Depleter at apply Stained c Fauna equatic P gen Sulfii ed Rhizo nce of Ro t Iron Re	Matr Mucky Gleyedd Mat Leave (B13) lants de Od ssphei	hix (S6) Mineral (F1) Mineral (F2) Mineral (F2) Mydric Soil Pro Hydric Soil Pro es (B9) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6)	X	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plan Geomorphic Position (D2)	x (A16) asses (F12) Surface (F12) tors (C2) al Imagery (C9) ts (D1)
HYDR	Stratified Layi- 2 cm Muck (A Depleted Belo Thick Dark St ictive Layer (if Remarks: COLOGY INDEX STRAIN STRAIN Surface Wate High Water T Saturation (A Water Marks Sediment Deposits Algal Mat or C Iron Deposits Inundation Vi	ers (Å5) A10) bw Dark Sururface (A12) f observed) Indicators: Printer (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) sible on Aeri	: Type: Depth (Inches): mary Indicators	(check all the Water Aquati Aq	Stripped Loamy No Loamy Openhered Loamy Openhered Loamy Openhered Loam Loam Loam Loam Loam Loam Loam Loam	Matr Mucky Gleyedd Mat Leave (B13) lants de Odesphei educte face (es (B9) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)		Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plan	x (A16) asses (F12) Surface (F12) tors (C2) al Imagery (C9) ts (D1)
HYDR	Stratified Layi- 2 cm Muck (A Depleted Belo Thick Dark St ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water T Saturation (A Water Marks Sediment Deposits Algal Mat or (I Iron Deposits Inundation Vi Sparsely Veg	ers (À5) A10) bw Dark Sur urface (A12) f observed) Indicators: Printer (A1) able (A2) 3) (B1) boosits (B2) c (B3) Crust (B4) (B5) sible on Aeri etated Cond	: Type: Depth (Inches): mary Indicators al Imagery (B7) ave Surface	(check all the Water Aquati True A Hydro Oxidiz Presei Recen Thin M Guage Other	Stripped Loamy No Loamy No Depleter Stained or Fauna equatic Pigen Sulfied Refused Ref	I Matri Mucky Gleyedd Mat Leave (B13) Ilants de Od spheleduce eductie face (Data	es (B9) Or (C1) Hydric Soil Pre (B14) Hor (C1) res on Living Roots d Iron (C4) con in Tilled Soil (C6) (C7) (D9)	X	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plan Geomorphic Position (D2)	x (A16) asses (F12) Surface (F12) tors (C2) al Imagery (C9) ts (D1)
HYDR	Stratified Layi- 2 cm Muck (A Depleted Belo Thick Dark St ictive Layer (if Remarks: COLOGY INDEX STRAIN STRAIN Surface Wate High Water T Saturation (A Water Marks Sediment Deposits Algal Mat or C Iron Deposits Inundation Vi	ers (À5) A10) bw Dark Sur urface (A12) f observed) Indicators: Printer (A1) able (A2) 3) (B1) boosits (B2) c (B3) Crust (B4) (B5) sible on Aeri etated Concest	: Type: Depth (Inches): mary Indicators al Imagery (B7) ave Surface	(check all the Water Aquati Aq	Stripped Loamy N Loamy N Loamy N Depleter Stained or Fauna equatic P ggen Sulfied Rhizonce of Rt Iron Refluck Surfuck	Matr Mucky Gleyedd Mat Leave (B13) lants de Odesphei educte face (es (B9) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)	X	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plan Geomorphic Position (D2)	x (A16) asses (F12) Surface (F12) tors (C2) al Imagery (C9) ts (D1)
HYDR Wetla	Stratified Layi- 2 cm Muck (A- Depleted Belo Thick Dark Strative Layer (if Remarks: COLOGY Ind Hydrology Surface Wate- High Water T Saturation (A- Water Marks Sediment Deposits Algal Mat or (Iron Deposits Inundation Vi- Sparsely Veg Observations:	ers (À5) A10) bw Dark Sur urface (A12) f observed) Indicators: Prii er (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc Surface W Water Tab Saturation	mary Indicators al Imagery (B7) ave Surface /ater Present? be Present? Present?	(check all the Water Aquati True A Hydro Oxidiz Preser Recent Thin M Guage Other Yes Yes	Stripped Loamy No Loamy Openhered Loamy Openhered Loamy Openhered Loams Openhe	I Matr Mucky Gleyedd Mat Leavy (B13) lants de Oc ssphel educei face (Data	es (B9) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches) Depth (inches) Depth (inches)	x x	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plan Geomorphic Position (D2 FAC-Neutral Test (D5)	x (A16) asses (F12) Surface (F12) tors (C2) al Imagery (C9) ts (D1)
HYDR Wetla	Stratified Layi- 2 cm Muck (A- Depleted Belo Thick Dark Strative Layer (if Remarks: COLOGY Ind Hydrology Surface Wate- High Water T Saturation (A- Water Marks Sediment Deposits Algal Mat or (Iron Deposits Inundation Vi- Sparsely Veg Observations:	ers (À5) A10) Dw Dark Sur Lufface (A12) F observed) Indicators: Prin Prin Prin Prin Prin Prin Prin Prin	mary Indicators al Imagery (B7) ave Surface /ater Present? be Present? Present?	(check all the Water Aquati True A Hydro Oxidiz Preser Recent Thin M Guage Other Yes Yes	Stripped Loamy No Loamy Openhered Loamy Openhered Loamy Openhered Loams Openhe	I Matr Mucky Gleyedd Mat Leavy (B13) lants de Oc ssphel educei face (Data	es (B9) (B14) dor (C1) es on Living Roots d Iron (C4) con in Tilled Soil (C6) C7) (D9) Depth (inches) Depth (inches)	x x	Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes X No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Stunted or Stressed Plan Geomorphic Position (D2 FAC-Neutral Test (D5) Ioy Indicators Present?	x (A16) asses (F12) Surface (F12) tors (C2) al Imagery (C9) ts (D1)

Site:			e-W.Millersport				airfield County	Date:	27 March 202	24 Data Po	int: <u>UPL-41A</u>
Client:	igator(s):	AEP L. Vine, E.	.Holt	State: OH	_Section	n, Tov	nship, Range: Landform	Floo	od Plains Lo	cal Relief	Convex
Slope	(%):		Lat.	39.774139°	Long.		'-82.628196°	Datum		WI Class:	N/A
			loam, fan, occas ns typical for tim		l Y/N	Υ					
	Vegetation	on N	, Soil	N or Hy	drology	- N	significantly disturbed				
A N.I.	Vegetation		_ ,		drology	N	naturally problematic				
	ormal Circums		ent? Y	es <u>x</u>	No		-				
		rophytic Veg	etation Present?		No		_				
		, .	ric Soil Present? drology Present?		No No	X	-	Is the Yes	DP within a We	etland? X	
		vvctiana r iye	arology i resent:	163	INO			1163	140	Λ	
VEGE	TATION			Absolute %	Domi	nont					
Tree S	Stratum_	Plot size:	30'	Cover	Spe		Indicator Statu	S			
1.										nce Test Wo	
2. 3.					-				Number of dom are OBL, FACV		s that 3
3. 4.					-				Total number of		5
5.									species across		
Shrub	Stratum	Plot size:	15'	0	Total Co	over			Percent of dom are OBL, FACV		60.00
1.	- Circuitation	1 101 0120.							Prevalence Inc	dex Workshe	eet
2. 3.					· - 		- -		Total % co OBL species	ver <u>of:</u> 1 >	. 1
3. 4.							-		FACW species	10 >	
5.									FAC species	10 >	3 30
Herb S	Stratum	Plot size:	5'	0	Total Co	over			FACU species UPL species	<u>65</u> >	
1.	Setaria fabe			60	Y		FACU	4	Total	86	311
2.	Carex franki Verbena urti			15 10	<u> </u>		OBL	1		Prevalence I	
3. 4.	Euthamia gr			10	<u> </u>		FAC FACW	<u>3</u>	Hydrophytic V Rapid Te	est for Hydrop	
5.	Solidago car			5	N		FACU	4	x Dominan	ice Test is >5	60%
6. 7.							<u>.</u> .			ice Index is < ogical Adapta	
8.										tic Hydrophytic	
l., .		5		100	Total Co	over	-			of hydric soil	
Woods	y Vine Stratur	n_ Plot size:	30'						, ,,	must be pres	•
2.							· ·			bed or proble	
	Remarks:			0	Total Co	over				ic Vegetatio X No	n Present?
SOIL	-										
			:mt:am. /Daaau:I	4	adad ta	امماد	mont the indicator or		a abaanaa af in	diagtara \	
	Depth		iption: (Descril Matrix	pe to depth ne			ment the indicator or Redox Featu		n absence of in	dicators.)	
	(inches)	Color	Matrix %	Color				res Tex	ture	dicators.) Remarks	
			Matrix %	_			Redox Featu	ires	ture	•	
	(inches)	Color	Matrix %	_			Redox Featu	res Tex	ture	•	
	(inches)	Color	Matrix %	_			Redox Featu	res Tex	ture	•	
	(inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	%	Туре	Redox Featu	res Tex Sid	ture CL	Remarks	ix
	(inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	% ced Mat Hydric	Type	Redox Featu * Loc** S=Coated Sand grains Indicators:	res Tex Sid	ture CL tion: PL=Pore Li	Remarks ning, M=Matr	
	(inches) 0-18 *Type	Color 10YR 3/2	Matrix % 100	Color	% ced Mat Hydric Sandy M	Type	Redox Feature	res Tex Sid	ture CL tion: PL=Pore Li	Remarks	F6)
	*Type Histosol (A1 Histic Epiper Black Histic	Color 10YR 3/2 : C=Concentu	Matrix % 100	Color	% ced Mat Hydric Sandy M 5cm Mu Sandy (rix, CS Soil I Mucky ucky P Gleyed	Redox Feature Re	res Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D	ning, M=Matr ark Surface (I Dark Surface (Pepressions (I	F6) e (F7) ⁻ 8)
	*Type Histosol (A1 Histic Epiper Black Histic Hydrogen Su	Color 10YR 3/2 : C=Concentu don (A2) (A3) ulfide (A4)	Matrix % 100	Color	% ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy F	rix, CS Soil I Mucky ucky P Gleyed Redox	Redox Feature Re	res Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators fo	ning, M=Matr ark Surface (d Dark Surfac epressions (For Problematic	F6) e (F7) ^{E8)} Hydric Soils
	*Type Histosol (A1 Histic Epiped Black Histic Hydrogen Su Stratified La 2 cm Muck (Color 10YR 3/2 : C=Concentr don (A2) (A3) ulfide (A4) yers (A5) A10)	Matrix % 100 ration, D=Deplet	Color on, RM=Redu	ced Mat Hydric Sandy N Sandy G Sandy F Stripped Loamy	rix, CS Soil I Mucky Jicky P Gleyed Redox d Matr Mucky	Redox Feature Re	res Tex Sid	ture CL tion: PL=Pore Li Redox D Depletec Redox D Indicators for Coast Pr Iron-Mar	ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (aganese Mass	F6) e (F7) F8) Hydric Soils A16) ses (F12)
	*Type Histosol (A1 Histic Epipeo Black Histic Hydrogen Su Stratified La 2 cm Muck (Depleted Be	Color 10YR 3/2 10YR 3/2 C=Concents 10don (A2) (A3) (A3) (Jillide (A4) (A5) (A5) (A10) Low Dark Sur	Matrix % 100 ration, D=Depleti	Color on, RM=Redu	ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	rix, CS Soil I Mucky Icky P Gleyec Redox d Matr Mucky Gleye	Redox Feature Re	res Tex Sid	ture CL Etion: PL=Pore Line Redox D Depleted Redox D Indicators for Coast Pr Iron-Man Very Sha	Remarks ning, M=Matr ark Surface (I Dark Surfac epressions (For Problematic cairie Redox (F6) e (F7) F8) Hydric Soils A16) ses (F12)
Restri	*Type Histosol (A1 Histic Epipee Black Histic Hydrogen St Stratified La 2 cm Muck (Depleted Be Thick Dark S	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti	Color on, RM=Redu	ced Mat Hydric Sandy N Sandy G Sandy F Stripped Loamy	rix, CS Soil I Mucky Icky P Gleyec Redox d Matr Mucky Gleye	Redox Feature Re	res Tex Sid	ture CL tion: PL=Pore Li Redox D Depletec Redox D Indicators for Coast Pr Iron-Mar	ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (aganese Mass	F6) e (F7) F8) Hydric Soils A16) ses (F12)
	*Type #Type Histosol (A1 Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti	Color Color ion, RM=Redu	ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	rix, CS Soil I Mucky Icky P Gleyec Redox d Matr Mucky Gleye	Redox Feature Re	Tex Sid	ture CL Etion: PL=Pore Line Redox D Depleted Redox D Indicators for Coast Pr Iron-Man Very Sha	ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (aganese Mass	F6) e (F7) F8) Hydric Soils A16) ses (F12)
	*Type Histosol (A1 Histic Epipee Black Histic Hydrogen St Stratified La 2 cm Muck (Depleted Be Thick Dark S	Color 10YR 3/2 10YR 3	Matrix % 100 ation, D=Depleti face (A11) Type:	Color Color ion, RM=Redu	ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	rix, CS Soil I Mucky Icky P Gleyec Redox d Matr Mucky Gleye	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depletec Redox D Indicators for Coast Pr Iron-Mar Very Sha	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic airie Redox (nganese Massallow Dark Surface)	F6) e (F7) F8) Hydric Soils A16) ses (F12) Irface (F12)
HYDR	*Type *Type Histosol (A1 Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks:	Color 10YR 3/2 10YR 3/2 Concention Conc	face (A11) Type: Depth (Inches)	Color	% ced Mat Hydric Sandy N 5cm Mu Sandy F Stripped Loamy I Deplete	rix, CS Soil I Mucky P Gleyec Redox d Matr Mucky Gleyed d Mat	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators fc Coast Pr Iron-Mar Very Sha Other Yes	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic airie Redox (nganese Massallow Dark Surface No	F6) e (F7) F8) Hydric Soils A16) ses (F12) rrface (F12)
HYDR	*Type Histosol (A1 Histic Epiper Black Histic Hydrogen St Stratified Lav 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY Ind Hydrology	Color 10YR 3/2 10YR 3/2 Concention Concent	face (A11) Type: Depth (Inches)	Color On, RM=Redu	% ced Mat Hydric Sandy N 5cm Mu Sandy S Sandy F Strippec Loamy Loamy Deplete	Type	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Sha Other Yes Seconda	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (ic) r Problematic airie Redox (iganese Masi allow Dark Su No	F6) e (F7) F8) Hydric Soils A16) ses (F12) rrface (F12)
HYDR	*Type *Type Histosol (A1) Histic Epiper Black Histic Hydrogen Su Stratified La 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrologe Surface Wat High Water	Color 10YR 3/2 10YR 3	face (A11) Type: Depth (Inches)	Color ion, RM=Redu check all the Water Aquati	ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy U Loamy Deplete at apply Stained c Fauna	rix, CS Soil I Mucky P Gleyec Redox Mucky Gleyed d Mat	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depletec Redox D Indicators for Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic airie Redox (aganese Massallow Dark Surface No No ary Indicator acks (B6) arrs (B10)	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12)
HYDR	*Type *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Statified Layer 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A	Color 10YR 3/2 10YR 3	face (A11) Type: Depth (Inches)	Color Color On, RM=Redu (check all the Water Aquati True A	ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy U Deplete at apply Stained c Fauna	rix, CS Soil I Muckyy P Gleyec Redox J Matr Mucky Gleyec d Mat Leave (B13)	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season Ware CL Coast Pr Iron-Mar Very Sha Other Yes	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic aririe Redox (nganese Massallow Dark Surface No No ary Indicator racks (B6) rrs (B10) ater Table (C	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12)
HYDR	*Type *Type Histosol (A1 Histic Epiped Black Histic Hydrogen St Stratified Lat 2 cm Muck Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A	Color 10YR 3/2 10YR 3/2 C=Concentr Color 10YR 3/2 Color 10	face (A11) Type: Depth (Inches)	Color ion, RM=Redu ion, RM=Redu ion Water Aquati True A Hydro	ced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy I Loamy I Deplete at apply Stained c Fauna quatic F gen Sulf	rix, CS Soil I Mucky PGleyecd Redox J Matr Mucky Gleyed d Mat Leave (B13) Plants	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators fo Coast Pr Iron-Mar Very Sha Other Yes Seconda Surface Soil Cr Drainage Patte Dry-Season Wards	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (nganese Massallow Dark Surface No No ary Indicator racks (B6) ater Table (C	F6) e (F7) -8) Hydric Soils A16) ses (F12) rrface (F12) X
HYDR	*Type *Type Histosol (A1 Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A Water Mark Sediment De Drift Deposit	Color 10YR 3/2	face (A11) Type: Depth (Inches)	Color ion, RM=Redu ion, RM=Redu Check all that Water Aquati True A Hydroi Oxidiz Presei	ced Mat Hydric Sandy M Sandy F Stripped Loamy M Loamy M Deplete at apply Stained c Fauna c quatic F gen Sulf ed Rhize chice of R	rix, CS Soil I Mucky PGleyec Redox J Matr Mucky Gleyec d Mat) Leav Plants ide Ocosphele educe	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators fc Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season W: Crayfish Burrov Saturation Visil Stunted or Stre	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (nganese Mass allow Dark Surface No No ary Indicator racks (B6) racks (B6) ater Table (C ws (C8) ble on Aerial essed Plants	F6) e (F7) -8) Hydric Soils A16) ses (F12) urface (F12) X
HYDR	*Type *Type Histosol (A1 Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or	Color 10YR 3/2 10YR 3/2 Color 10YR 3/2 Colo	face (A11) Type: Depth (Inches)	Color On, RM=Redu on, RM=Redu Check all that Water Aquati True A Hydrog Oxidiz Preseg Recen	ced Mat Hydric Sandy M Sandy F Stripped Loamy L Loamy Deplete at apply Stained c Fauna regen Sulfied Rhize chize of R t Iron Re	rix, CS Soil I Mucky Soll H Mucky Gleyec Redox J Matr Mucky Gleyec d Mat) Leav (B13) Plants ide Oc ssphele educe eductie	Redox Feature Re	Tex Sid	ture CL Redox D Depleted Redox D Indicators fo Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season Water Stunted or Stre Geomorphic Po	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (nganese Mass allow Dark Surface racks (B6) racy Indicator racks (B6) rater Table (C ws (C8) ble on Aerial essed Plants position (D2)	F6) e (F7) -8) Hydric Soils A16) ses (F12) urface (F12) X
HYDR	*Type *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY INDEPLIES OF COLOGY Remarks: OLOGY INDEPLIES	Color 10YR 3/2 10YR 3	face (A11) Type: Depth (Inches)	Color Co	ced Mat Hydric Sandy M Sandy F Stripped Loamy M Loamy M Deplete at apply Stained c Fauna c quatic F gen Sulf ed Rhize chice of R	Type rix, CS Soil I Mucky PGleyee d Matr Mucky Gleyee d Matr Plants ide Od educte educte educte face (Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators fc Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season W: Crayfish Burrov Saturation Visil Stunted or Stre	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (nganese Mass allow Dark Surface racks (B6) racy Indicator racks (B6) rater Table (C ws (C8) ble on Aerial essed Plants position (D2)	F6) e (F7) -8) Hydric Soils A16) ses (F12) urface (F12) X
HYDR	*Type *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Su Stratified Layer (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrolog Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Inundation V Sparsely Ve	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators al Imagery (B7) rave Surface	Color ion, RM=Redu ion, RM=Redu Water Aquati True A Hydro Oxidiz Prese Recen Thin M Guage Other	ced Mat Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy Loamy Deplete at apply Stained c Fauna equatic F gen Sulf ed Rhizo nce of R t Iron Re fluck Sur e or Well	rix, CS Soil I Mucky Icky P Gleyec Hodar Mucky I Matri Mucky I Matri Mucky I Hodar Mucky Mucky I Hodar Mucky Muc	Redox Feature Re	Tex Sid	ture CL Redox D Depleted Redox D Indicators fo Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season Water Stunted or Stre Geomorphic Po	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic rairie Redox (nganese Mass allow Dark Surface racks (B6) racy Indicator racks (B6) rater Table (C ws (C8) ble on Aerial essed Plants position (D2)	F6) e (F7) -8) Hydric Soils A16) ses (F12) urface (F12) X
HYDR	*Type *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Su Stratified Layer (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrolog Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Inundation V Sparsely Ve	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators rations (B7) rave Surface Vater Present?	Color Ion, RM=Redu Ion, RM=R	ced Mat Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy U Loamy U Loamy U Loamy G Deplete at apply Stained c Fauna equatic F gen Sulf ed Rhizz cnce of R t Iron Re fluck Sur e or Well No	Type rix, CS Soil I Mucky PGleyee d Matr Mucky Gleyee d Matr Plants ide Od educte educte educte face (Redox Feature Re	**Locat	ture CL Tion: PL=Pore Li Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Shar Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visil Stunted or Stre Geomorphic Por FAC-Neutral Te	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic aririe Redox (aganese Massallow Dark Surfaces (B6) ary Indicator acks	F6) e (F7) -8) Hydric Soils A16) ses (F12) urface (F12) X
HYDR Wetlan	*Type *Type Histosol (A1 Histic Epiped Black Histic Hydrogen St Stratified Lav 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ver Observations	Color 10YR 3/2	Matrix % 100 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface /ater Present? be Present? Present?	Color On, RM=Redu On, RM=Redu Check all the Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes Yes Yes X	ced Mat Hydric Sandy N 5cm Mu Sandy S Stripped Loamy N Deplete at apply Deplete at apply Deplete at apply Conce of R It Iron Re fuck Sur e or Well No No No	rix, CS Soil I Mucky PGleyec Redox J Matr Mucky Gleyec d Mat Leave (B13) Plants ide Ocospher educe educti face (Data	Redox Feature Re	**Locat	ture CL Redox D Depleted Redox D Indicators fo Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season Water Stunted or Stre Geomorphic Po	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic aririe Redox (aganese Massallow Dark Surfaces (B6) ary Indicator acks	F6) e (F7) -8) Hydric Soils A16) ses (F12) urface (F12) X
HYDR Wetlan	*Type *Type Histosol (A1 Histic Epiped Black Histic Hydrogen St Stratified Lav 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ver Observations	Color 10YR 3/2	Matrix % 100 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface /ater Present? be Present? Present?	Color On, RM=Redu On, RM=Redu Check all the Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes Yes Yes X	ced Mat Hydric Sandy N 5cm Mu Sandy S Stripped Loamy N Deplete at apply Deplete at apply Deplete at apply Conce of R It Iron Re fuck Sur e or Well No No No	rix, CS Soil I Mucky PGleyec Redox J Matr Mucky Gleyec d Mat Leave (B13) Plants ide Ocospher educe educti face (Data	Redox Feature Re	**Locat	ture CL tion: PL=Pore Li Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Sha Other Yes Second: Surface Soil Cr Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visil Stunted or Stree Geomorphic Por FAC-Neutral Te	Remarks ning, M=Matr ark Surface (I Dark Surface epressions (For Problematic aririe Redox (aganese Massallow Dark Surfaces (B6) ary Indicator acks	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X S 2) Imagery (C9) (D1)

Site:		r-S.Baltimor AEP	e-W.Millersport			airfield County	Date:	28 March 2024 Data Point: WL-	18
Client: Invest	: igator(s):	N. Houk, N	I. Barnett	_State: OH	Section, 10	wnship, Range: Landform	Flood	Sec S35, T 15N, R 19W Plains Local Relief Concave	
Slope	(%):	A - 1 11 1		39.729007	Long.	-82.633563		NAD83 NWI Class: PEM	
			oam, occasionans typical for time		Y/N Y				
	Vegetation	ĭ N	, Soil	N or Hy	ydrology N				
Aro Na	Vegetation ormal Circumst		, Soil	N or Hy Yes x	ydrology N No	naturally problematic			
	MARY OF FIND	INGS		-		_			
	Hydro		etation Present		No	_	L. d. D	Socialists - Western 10	
	V		ric Soil Present' Irology Present'		_No 	_	Yes	P within a Wetland? x No	
Rema	rks:						•	-	
	TATION			Absolute %	Dominant		- 1		
Tree S	Stratum	Plot size:	30'	Cover	Species	Indicator Statu	ıs		
1.						_		Dominance Test Worksheet	
2. 3.	-					_		lumber of dominant species that re OBL, FACW, or FAC:	
4.								otal number of dominant	-
5.				0	Total Cover	_		pecies across all strata:	
Shrub	Stratum	Plot size:	15'		_ Total Cover			re OBL, FACW, or FAC:	Э0
1.					_	_	P	revalence Index Worksheet	
2. 3.				-	=			Total % cover of: OBL species 0 x 1	0
4.									196
5.				0	T-1-1-0			AC species 2 x 3	6
Herb S	Stratum	Plot size:	5'		_Total Cover			ACU species0 x 4 IPL species0 x 5	0
1.	Phalaris arund	dinacea		98	Y	FACW	2	Total 100 2	202
2. 3.	Apocynum ca	nnabınum		2	N	FAC	3 H	Prevalence Index: 2 lydrophytic Vegetation Indicators:	.02
4.								Rapid Test for Hydrophytic Veg.	
5.								x Dominance Test is >50%	
6. 7.				-		_		x Prevalence Index is ≤3.0* Morphological Adaptations*	
8.					-	_		Problematic Hydrophytic Vegetation*	
\\\ood	y Vine Stratum	Plot cizo:	30'	100	_Total Cover			*Indicators of hydric soil and wetland	
1.	y vine Stratum	FIOI SIZE.	30					hydrology must be present, unless	
2.					- 0			disturbed or problematic	
	Remarks:			0	Total Cover			Hydrophytic Vegetation Present? Yes X No	
SOIL		<u>, </u>							_
	Depth		i ption: (Descri Matrix	be to depth n	eeded to doc	ument the indicator or Redox Featu		bsence of indicators.)	
	(inches)	Color	%	Color		e* Loc**	Textur		
	0-5 5-18	10YR 3/2 10YR 4/2		10YR 5/6 10YR 5/6	5 C		Si C I		
	3-16	1011 4/2	95	10110 3/0	3 0	IVI	5101	_	
	*Type: 0		ation. D=Deple	_ tion. RM=Red≀	uced Matrix. C	S=Coated Sand grains	**Location	n: PL=Pore Lining, M=Matrix	
		0 0011001111	ашогт, в ворго		Hydric Soil	Indicators:		-	
	Histosol (A1) Histic Epipedo	n (A2)				y Mineral (S1) Peat or Peat	_	x Redox Dark Surface (F6) Depleted Dark Surface (F7)	
	Black Histic (A					ed Matrix (S4)	_	Redox Depressions (F8)	
	Hydrogen Sulf				Sandy Redo		_	Indicators for Problematic Hydric Soils	
	Stratified Laye 2 cm Muck (A				Stripped Ma	trix (S6) xy Mineral (F1)	_	Coast Prairie Redox (A16) Iron-Manganese Masses (F12)	
	Depleted Belo		ace (A11)		Loamy Gley	ed Matrix (F2)	_	Very Shallow Dark Surface (F12)	
	Thick Dark Su		_		Depleted Ma			Other	
Restri	ictive Layer (if	observed):	Type: Depth (Inches	١٠-		Hydric Soil Pro	esent?	Yes x No	
	Remarks:		Boptii (moneo	<i>,</i> •		1 11/4110 0011111		100 X NO	
	OLOGY nd Hydrology	Indicators:							
vvctia	na riyarology		nary Indicators	s (check all th	at apply)			Secondary Indicators	_
	Surface Wate	r (A1)		Wate	r Stained Lea			urface Soil Cracks (B6)	
	High Water Ta Saturation (A3				tic Fauna (B1: Aquatic Plants			Prainage Patterns (B10) Pry-Season Water Table (C2)	
	Water Marks ((B1)		Hydro	ogen Sulfide C	Odor (Ć1)	С	rayfish Burrows (C8)	
	_Sediment Dep					eres on Living Roots		aturation Visible on Aerial Imagery (C9)
	Drift Deposits Algal Mat or C				ence of Reduction	ed Iron (C4) ion in Tilled Soil (C6)		tunted or Stressed Plants (D1) Geomorphic Position (D2)	
	Iron Deposits	(B5) `´		Thin I	Muck Surface		<u>x</u> F.	AC-Neutral Test (D5)	
	Inundation Vis	(B5) ` sible on Aeri	al Imagery (B7)	Thin I	e or Well Data		X F	AC-Neutral Test (D5)	
Field		(B5) ` sible on Aeri etated Conc	ave Surface	Thin I	e or Well Data		<u>X</u> F.	AC-Neutral Test (D5)	
Field (Inundation Vis	(B5) sible on Aeri etated Conc Surface W	ave Surface ater Present? le Present?	Thin I Guag Other	e or Well Data	a (D9)		AC-Neutral Test (D5) y Indicators Present? Yes x No	

Site: Client:		r-S.Baltimor AEP	e-W.Millersport	City/County: State: OH	Section		ld County	_Date:	28 March 202	<u>4 </u> Data Poi T 15N, R 19\	
	igator(s):	N. Houk, N	I. Barnett	_Olale. OII	_ 5600011,	, TOWNSH	Landforn	n Floc		cal Relief	Convex
Slope		A		39.728973	_Long		82.633588	Datum	NAD83 NV	VI Class:	N/A
			oam, occasionans typical for tim		Y/N	V					
C	Vegetation				drology _	N sigi	nificantly disturbed				
	Vegetation	N N	, Soil		drology _		urally problematic				
	ormal Circumsta		ent? Y	es <u>x</u>	No _						
SOININ	IARY OF FIND Hydro		etation Present?	Yes	No	Х		$\overline{}$			
	-	Hydr	ric Soil Present?	Yes	No _	X		Is the I	DP within a Wet	tland?	
Dama		Vetland Hyd	Irology Present?	Yes	No	Χ		Yes	No x	[
Remai	TATION										
	Stratum	Diet eizer	201	Absolute %	Domin	ant	Indicator Statu	10			
	<u>stratum</u>	Plot size:		Cover	Speci	es	mulcator Statt	22			
1.									Dominar Number of dom	nce Test Wo	
2. 3.									are OBL, FACW	•	1
4.									Total number of		3
5.				0	T-1-10-1				species across Percent of domi		
Shrub	Stratum	Plot size:	15'		_Total Cov	/er			are OBL, FACW	•	33.33
1.	Catalpa specie			50	Υ		FACU		Prevalence Ind		et
2.	Rosa multiflora			15	Y		FACU	4	Total % cov		
3. 4.	Crataegus cru	ıs-gallı		2	N		FAC		OBL species FACW species	0 x 55 x	
5.									FAC species	x	
l <u>.</u>				67	Total Cov	/er			FACU species	75_ x	
<u>Herb S</u>	<u>Stratum</u> Elymus virgini	Plot size:	5'	50	Υ		FACW		UPL species Total	0 x	5 <u>0</u>
2.	Taraxacum of			10	- I		FACU	2 4		Prevalence Ir	
3.	Phalaris arund	dinacea		5	N		FACW	2	Hydrophytic Ve		dicators:
4.										st for Hydrop	
5. 6.										ce Test is >5 ce Index is <3	
7.									Morpholo	gical Adaptat	tions*
8.				- CF	T-4-1 C-1					c Hydrophytic \	•
Woods	y Vine Stratum	Plot size:	30'	65	_Total Cov	/ei			*Indicators o	•	
1.									, ,,	nust be prese bed or proble	
2.					Total Cov					•	
2.	Remarks:			0	Total Cov	/er				c Vegetation	
2.				-					Hydrophyti Yes	c Vegetation No	n Present?
2.	Pro			-			nt the indicator or Redox Feat		Hydrophyti Yes	c Vegetation No	n Present?
2.			ption: (Describ	-	eeded to		Redox Feat		Hydrophyti Yes absence of ind	c Vegetation No	n Present?
2.	Pro Depth		Matrix %	pe to depth no	eeded to	documer	Redox Feat	ures	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches)	Color	Matrix %	pe to depth no	eeded to	documer	Redox Feat	ures Text	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches)	Color	Matrix %	pe to depth no	eeded to	documer	Redox Feat	ures Text	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	eeded to	documer	Redox Feat	ures Text Si C	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	% 3	Type* Lo	Redox Feat	ures Text Si C	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	% 3	Type* Lo	Redox Feat oc** pated Sand grains cators:	ures Text Si C	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches) 0-18 *Type: 0	Color 10YR 3/2 C=Concentr	Matrix % 100	Color	eeded to e % iced Matrix Hydric \$ Sandy M. 5cm Muc	Type* Lo	Redox Feat ocated Sand grains cators: eral (S1) or Peat	ures Text Si C	Hydrophyti Yes absence of ind ture C L ion: PL=Pore Lin Redox Da Depleted	c Vegetation No licators.) Remarks sing, M=Matri ark Surface (I Dark Surface	n Present? x
2.	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A	Color 10YR 3/2 C=Concentr	Matrix % 100	Color	ced Matrix Hydric S Sandy M 5cm Muc Sandy G	Type* Lo x, CS=Cooil Indicucky Mincky Peat of leyed Ma	Redox Feat oc** pated Sand grains cators: eral (S1) or Peat trix (S4)	ures Text Si C	Hydrophyti Yes absence of ind ture CL ion: PL=Pore Lin Redox Da Depleted Redox Da	c Vegetation No licators.) Remarks sing, M=Matri ark Surface (I Dark Surface	Present? X
2.	Depth (inches) 0-18 *Type: 0	Color 10YR 3/2 C=Concentr on (A2) (A3) (Gide (A4)	Matrix % 100	Color	eeded to e % iced Matrix Hydric \$ Sandy M. 5cm Muc	Type* Lo x, CS=Co Soil Indio ky Peat o leyed Ma edox (S5)	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)	ures Text Si C	Hydrophyti Yes absence of ind ture C L ion: PL=Pore Lin Redox Da Depleted Redox Da Indicators for	c Vegetation No licators.) Remarks sing, M=Matri ark Surface (I Dark Surface	Present? X F6) e (F7) 8) Hydric Soils
2.	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 3/2 10YR 3/2 C=Concentr on (A2) (33) Gide (A4) ers (A5) 10)	Matrix % 100 ation, D=Depleti	Color	sandy Re Sandy Re Sandy Re Stripped Loamy M	Type* Lo x, CS=Co Soil Indic ucky Min eky Peat o ledyod Ma edox (S5 Matrix (S5 lucky Mir	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)) 66) heral (F1)	ures Text Si C	Hydrophyti Yes absence of ind ture C L ion: PL=Pore Lin Redox Da Depleted Redox Da Indicators foi Coast Pra Iron-Mang	c Vegetation No licators.) Remarks ling, M=Matri ark Surface (I Dark Surface pressions (F r Problematic airie Redox (A ganese Mass	n Present? x F6) e (F7) e (F7) Hydric Soils A16) ses (F12)
2.	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 3/2 C=Concentr on (A2) (A3) (iide (A4) ers (A5) (10) w Dark Surf	Matrix % 100 ation, D=Depleti	Color	seded to of the sed of	Type* Lo x, CS=Co Soil Indic ucky Min eky Peat o leeyed Ma leeyed Ma for Matrix (S) Matrix (S) lucky Min leyed Ma	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)) li6) heral (F1) etrix (F2)	ures Text Si C	Hydrophyti Yes absence of ind ture C L ion: PL=Pore Lin Redox Da Depleted Redox De Indicators foi Coast Pra Iron-Mang Very Sha	c Vegetation No licators.) Remarks sing, M=Matri ark Surface (I Dark Surface expressions (F r Problematic airie Redox (A	n Present? x F6) e (F7) e (F7) Hydric Soils A16) ses (F12)
SOIL	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 3/2 C=Concentr on (A2) (A3) (Gide (A4) (First (A5) (A5) (D10) (D2) (D3) (D3) (D4) (D4) (D5) (D6) (D7) (D7) (D7) (D7) (D7) (D7) (D7) (D7	Matrix % 100 ation, D=Depleti	Color	sandy Re Sandy Re Sandy Re Stripped Loamy M	Type* Lo x, CS=Co Soil Indic ucky Min eky Peat o leeyed Ma leeyed Ma for Matrix (S) Matrix (S) lucky Min leyed Ma	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)) li6) heral (F1) etrix (F2)	ures Text Si C	Hydrophyti Yes absence of ind ture C L ion: PL=Pore Lin Redox Da Depleted Redox Da Indicators foi Coast Pra Iron-Mang	c Vegetation No licators.) Remarks ling, M=Matri ark Surface (I Dark Surface pressions (F r Problematic airie Redox (A ganese Mass	n Present? x F6) e (F7) e (F7) Hydric Soils A16) ses (F12)
SOIL Restri	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 3/2 C=Concentr on (A2) (A3) (Gide (A4) (First (A5) (A5) (D10) (D2) (D3) (D3) (D4) (D4) (D5) (D6) (D7) (D7) (D7) (D7) (D7) (D7) (D7) (D7	Matrix % 100 ation, D=Depleti	Color On, RM=Redu	seded to of the sed of	Type* Lo x, CS=Co Soil Indic ucky Min eky Peat o leeyed Ma leeyed Ma for Matrix (S) Matrix (S) lucky Min leyed Ma	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)) li6) heral (F1) etrix (F2)	**Locati	Hydrophyti Yes absence of ind ture C L ion: PL=Pore Lin Redox Da Depleted Redox De Indicators foi Coast Pra Iron-Mang Very Sha	c Vegetation No licators.) Remarks ling, M=Matri ark Surface (I Dark Surface pressions (F r Problematic airie Redox (A ganese Mass	n Present? x F6) e (F7) e (F7) Hydric Soils A16) ses (F12)
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Client: Investiga Slope (% Soil Map Clim	tor(s): b): Unit Name:	AEP N. Houk, N 1-3 Pewamo si gic condition N N ances Prese	Lat. 3 Ity clay loam, los typical for tim , Soil , Soil	State: C 39.887537 ow caronate ie of year? N or N or	Long e till, 0 to Y/N Hydrolog	g. 2 perce Y y N y N	airfield County wnship, Range: Landfor -82.567358 nt slopes significantly disturbe naturally problematio	rm <u>Drair</u> Datum	nageways Lo	T 16N, R 18W	:: 33A Convex N/A
COMMINI	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	Yes	No No No	X 	_	Is the Yes	DP within a We	etland?	
Remarks	:	ctiaria riyai	ology i resent:	163	INO			163	140 2	`	
VEGETA				Absolute	% Do	minant			1		1
1 2 3 4 5.		Plot size:		Cover		pecies	Indicator Sta	atus	Number of dom that are OBL, F Total number o	ACW, or FAC f dominant	0
Shrub St 1. R	ratum_ ubus alleghe igustrum vulg		15'	50 5	Total	Cover	FACU FACU	4	species across Percent of dom that are OBL, F Prevalence Ind Total % co	inant species ACW, or FAC dex Workshee	
2. <u>Li</u> 3 4 5	gustrum vulg	gare		55		Cover	FACU	4	OBL species FACW species FAC species FACU species	x	2 <u>0</u> 3 30
2. <u>P</u>	atum_ olidago cana oa pratensis irsium arvens aucus carota	se	5'	40 10 2 2	Total	Y N N N	FACU FAC FACU UPL	4 3 4 5	UPL species Total IMPLICATION Hydrophytic V Rapid Te Dominan Prevalen	2 x 109 Prevalence Indiest for Hydroph ce Test is >50 ce Index is ≤3.	5 10 428 ex: 3.93 cators: ytic Veg. % 0*
7. 8. <u>Woody V</u> 1. 2.	/ine Stratum	Plot size:		54		Cover			Problemat *Indicators of hydrology r disturb	ogical Adaptation of Hydrophytic Ventral Adaptation of Hydric soil are must be preserued or problem	egetation* ad wetland at, unless aatic
Re	marks:	Ī		0	Total	Cover			Hydrophyti Yes	c Vegetation No	
SOIL		<u>l</u>									
	Prof Depth		tion: (Describ Matrix	e to depth	needed	to docu	ment the indicator o Redox Fea		n absence of in	dicators.)	
	(inches)	Color	%	Color	%	Туре	e* Loc**	Text		Remarks	
	0-18	10YR 4/2	100			_		Si (J L		
						_					
	*Type: C	=Concentra	ition, D=Depleti	on, RM=Re			S=Coated Sand grains Indicators:	s **Locat	tion: PL=Pore Li	ning, M=Matrix	(
Hi BI	istosol (A1) istic Epipedo lack Histic (A	(3)			Sand 5cm Sand	y Mucky Mucky F ly Gleye	Mineral (S1) Peat or Peat d Matrix (S4)		Depleted Redox Depleted	ark Surface (Fo Dark Surface epressions (F8	(F7) 3)
Si 2 D	ydrogen Sulf tratified Laye cm Muck (A' epleted Belov	rs (À5) [´] 10) w Dark Surf	ace (A11)		Stripp Loam Loam	ny Gleye	rix (Ś6) y Mineral (F1) d Matrix (F2)		Coast Pron-Man Very Sha	r Problematic H airie Redox (A ganese Masse Illow Dark Surf	16) s (F12)
	nick Dark Sulve Layer (if		Type:		Deple	eted Mat	trix (F3)		Other		
	marks:		Depth (Inches)	:			Hydric Soil F	Present?	Yes	No >	(
HYDROL											
Wetland	Hydrology I			/-ll				1	0		
History Science of the Control of th	parsely Vege	(A1) lble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aerie		Wa Aq Tru Hyu Ox Pre Re Thi Gu	ater Stain uatic Fau ue Aquati drogen S idized Rh esence of	ed Leav ina (B13 c Plants ulfide O nizosphe f Reduce Reducti Surface ((B14) dor (C1) veres on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7)		Seconda Surface Soil Cr Drainage Patte Dry-Season Wa Crayfish Burrow Saturation Visil Stunted or Stre Geomorphic Po FAC-Neutral Te	rns (B10) ater Table (C2) vs (C8) ble on Aerial In ssed Plants (D osition (D2)	nagery (C9)
Field Ob	servations:	Surface Water Table Saturation	ater Present? le Present? Present?	Yes Yes Yes ring well, a	No No No erial phot	x x x os, prev	Depth (inches) Depth (inches) Depth (inches) rious inspections), if a		loy Indicators F Yes	Present? No	(

Site:	W. Lanca	ster-S. Baltimo	ore-W. Millersport	t City/County		Fa	airfield County			n 2024 Data P	oint: 33
Client		AEP	N. Barnett	State: OH	Section	on, To	wnship, Range: Landform			S6, T 16N, R 18 Local Relief	
Slope	(%): `´	1-3	Lat. 3	39.886661	Long.		-82.567648	_ Datum_			N/A
Soil M C	ap Unit Na limatic/hvo	me: <u>Pewamo</u> Irologic conditio	silty clay loam, loons typical for time	ow caronate to ne of vear?	ill, 0 to 2 Y/N	perce Y	nt slopes				
	Vegeta	ation N	, Soil	N or H	ydrology		significantly disturbed				
Are No	Vegeta ormal Circu	ation <u>N</u> umstances Pre		N or H	ydrology No	N	_naturally problematic				
SUMN	MARY OF I		getation Present?	Yes x	No	-	_	1			
		Hyd	dric Soil Present?	Yes	No	Х	- : -			a Wetland?	
Rema	rks:	Wetland Hy	drology Present?	Yes	No	Х		Yes	No	Х	
	TATION			Al I1 - 0/	D						
Tree S	Stratum	Plot size:	30'	Absolute % Cover		inant ecies	Indicator Statu	ıs			
1.								NI NI		ninance Test W	
2. 3.	-				= ====					dominant spec BL, FACW, or F	1
4. 5.								Te	otal numb	per of dominant	1
				0	Total C	over		P	ercent of	ross all strata: dominant speci	100.00
Shrub 1.	Stratum	Plot size:	15'							BL, FACW, or F e Index Works	AC:
2.									Total 9	% cover of:	
3. 4.	-			-			<u> </u>		BL specion		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5.				0	Total C	`0\'0"		F.	AC specie ACU spec	es 40	x 3 120
Herb S	Stratum	Plot size:	5'		_				PL specie	es 0	x 4 x 5
1. 2.	Barbarea	vulgaris		40		Y	FAC	3	Tota	al <u>40</u> Prevalence	120 Index: 3.00
3.								Н		ic Vegetation	Indicators:
4. 5.							_			d Test for Hydro inance Test is:	
6.									x Prev	alence Index is	<u><</u> 3.0*
7. 8.										phological Adap ematic Hydrophyti	
Wood	v Vine Stra	tum Plot size:	30'	40	Total C	cover				ors of hydric so	
1.	y vine one	<u>ituiii</u> 1 10t 3126.							•	ogy must be pre sturbed or prob	•
2.	-			0	Total C	:over				ohytic Vegetati	
	Remarks:			· · · · · · · · · · · · · · · · · · ·	. 014.				Yes	x No	
SOIL		Profile Descr	iption: (Describ	e to depth n	eeded to	o doci	ument the indicator or		absence	of indicators.)	
	Depth (inche		Matrix %	Color	%	Type	Redox Featue* Loc**	ures Textur	·e	Remarks	
	0-14	10YR 3/	1 100			. , , ,	200	Si C L	_		
	14-18	3 10YR 3/	1 95	10YR 5/6	5			Si C L	_		
	*Ту	oe: C=Concent	ration, D=Depleti	on, RM=Red			S=Coated Sand grains	**Location	n: PL=Po	re Lining, M=Ma	atrix
	Histosol (A1)					Indicators: / Mineral (S1)		Redo	ox Dark Surface	e (F6)
	Histic Epi	pedon (A2)			5cm M	ucky É	Peat or Peat	_	Depl	eted Dark Surfa	ace (F7)
	Black His Hydrogen	Sulfide (A4)			_Sandy Sandy		d Matrix (S4) ((S5)	_		ox Depressions rs for Problemat	
	Stratified 2 cm Muc	Layers (À5)			Strippe		rix (S6) y Mineral (F1)	_		st Prairie Redox Manganese Ma	
	Depleted	Below Dark Su					ed Matrix (F2)			Shallow Dark	
Rostri		k Surface (A12 er (if observed		-	Deplet	ed Ma	trix (F3)		Othe	er	
		i (ii obscived	Depth (Inches)	:			Hydric Soil Pr	esent?	Yes	No	x
	Remarks: OLOGY										
		ogy Indicators		/abaalaall ti	4				Casa		
	Surface V	Vater (A1)	imary Indicators		r Staine		res (B9)	S		ondary Indicate oil Cracks (B6)	ors
	High Wat Saturation	er Table (A2)		Aqua	tic Faun Aquatic	a (B13	(B14)			Patterns (B10) n Water Table ((C2)
	Water Ma	rks (B1)		Hydro	ogen Sul	fide O	dor (C1)	С	rayfish B	urrows (C8)	,
	Sediment Drift Depo	Deposits (B2)					eres on Living Roots and Iron (C4)			Visible on Aeria Stressed Plant	al Imagery (C9)
	Algal Mat	or Crust (B4)		Rece	nt Iron R	Reduct	ion in Tilled Soil (C6)	G	eomorph	ic Position (D2)	
	Iron Depo		erial Imagery (B7)		Muck Suge or We			FF	AC-Neutr	al Test (D5)	
	Sparsely	Vegetated Con	cave Surface	Othe	r		. ,				
Field	Observation		Water Present? able Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydrolov	y Indicato	ors Present?	
Doso	he Possa	Saturatio	n Present?	Yes	No	Х	Depth (inches) rious inspections), if ava		Yes		Х
LICOLI I	ne 1/60010	ou pala islied	ııı uuau c . HIUHIIO	ınıu wen. aell	ai piiUlU	s, piev	ious mispections). Il dVa	anabic.			

Client: Invest Slope Soil M C	igator(s): (%): lap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumst	AEP N. Houk, N 1-3 Pewamo si gic condition N N tances Prese	Lat. ilty clay loam, kens typical for time, Soil , Soil	State: 39.88445 ow caron ne of yea N	OH 59 nate till r? or Hyd	Long. , 0 to 2 Y/N drology drology	percer Y N	irfield County /nship, Range: Landford -82.569989 nt slopes significantly disturbed naturally problemation	m <u>Drai</u> Datum	27 Mard Sei nageways n NAD83	c S6, T Loc	16N, R	18W C	31 Convex N/A
SUMIN	-	phytic Vege Hydri	etation Present? ic Soil Present?	Yes		No No	X	-		DP within				
Rema	rks:	/etiand Hydi	rology Present?	Yes		No	Х		Yes	No	Х			
VEGE	TATION			Absolu	ıto %	Dom	inant			ı				<u>'</u>
1. 2. 3. 4. 5.		Plot size:		Cov		Spe		Indicator Sta	tus	Number of that are C Total nun species a	of domi OBL, Fanber of	ACW, or dominar	cies FAC: nt	0 2
		Plot size:		0		Total C	over			Percent of that are C Prevalen	of domi OBL, France Ind % cov cies Decies	nant spe ACW, or ex Work er of: 0 5	cies FAC:	0.00 0 10
Herb 5 1. 2. 3. 4. 5. 6. 7.	Stratum Lamium purpu Zea mays res Conium macu Stellaria medi Allium vineale	idue ılatum ia	5'	0 48 40 5 5 2	3	1	over Y Y N N N	UPL UPL FACW FACU FACU	5 5 2 4 4	FACU spectors To	ecies cies otal P ytic Ve pid Tes minance evalence	7 88 100 Prevalence egetation st for Hyd ce Test is se Index i gical Ada	x 4 x 5 e Index Indica Irophyti s >50% s <3.0*	28 440 478 4.78 ators: ic Veg.
1. 2.	y Vine Stratum	Plot size:	30'	0		Total C				*Indica hydro	ators of plogy m disturb ophytic	Hydrophy hydric so lust be pro ed or pro Vegeta No	oil and resent, blemat	wetland unless ic
SOIL	Pro	file Descrip	tion: (Describ	e to der	oth ne	eded to	docu	ment the indicator of	r confirr	n absence	e of inc	dicators.)	
	Depth	Ī	Matrix					Redox Fea	tures					
	(inches) 0-18	Color 10YR 3/1	% 100	Col	or	%	Туре	* Loc**		ture	F	Remarks		
	0.10	10110 3/1	100				+			_				
		 		 										
	*Type: C	=Concentra	ation, D=Depleti	on, RM=	Reduc	ced Mat	rix, CS	=Coated Sand grains	**Loca	tion: PL=P	ore Lir	ing, M=N	/latrix	
	11'-11 (04)							ndicators: Mineral (S1)		Б.	.l D	-l- Of	· · /E0\	
Rostri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3) fide (A4) ers (A5) .10) ow Dark Surf urface (A12)	` ′	- - - - - -		5cm Mu Sandy Sandy Strippe Loamy	ucky Po Gleyed Redox d Matri Mucky Gleyed	eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2)		De Re Indica	pleted dox De tors for ast Pra n-Mano	rk Surfac Dark Sur pression Problema irie Redo ganese M low Dark	face (F s (F8) atic Hyd ox (A16 lasses	ric Soils (F12)
10361	ctive Layer (ii	observeuj.	Depth (Inches)):				Hydric Soil P	resent?	Ye	s	No	X	
	Remarks:													
	OLOGY nd Hydrology	Indicators:												
		Prim	nary Indicators									ry Indica		
	Sparsely Vege	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerie			Aquati True A Hydrog Oxidizo Preser Recen Thin M	ed Rhiz	a (B13) Plants fide Oc cospher Reduce leduction	(B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface S Drainage Dry-Seas Crayfish I Saturatio Stunted of Geomorp FAC-Neu	Patter son Wa Burrow n Visib or Stres phic Pos	ns (B10) ter Table s (C8) le on Aer ssed Plar sition (D2	(C2) rial Ima	gery (C9)
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes		No No No	X X X	Depth (inches) Depth (inches) Depth (inches)	_	loy Indica Ye		resent? No	х	
Descri	ibe Recorded D	ata (stream	guage, monito	rıng well	, aeria	ı pnotos	s, previ	ous inspections), if a	/aiiable:					

Sito:	W Lancaste	ır-S Baltimor	WEILA e-W. Millersport			_	FORM-MIDWEST	I REGI Date:	_	n 2024 Data	Point: 28
Client:		AEP	•	State: OH	Sectio		nship, Range:		Sec	S7, T 16N, R	18W
Invest Slope	igator(s): (%)·	N. Houk, N 1-3		9.877952	Long.		_ Landform -82.574087		nageways NAD83	Local Relief NWI Class:	Convex N/A
Soil M	làp Únit Name	e: Pewamo s	silty clay loam, lo	w caronate ti	II, 0 to 2	percent		_ Datum	1171200	_ 14441 Oldoo.	14// (
С	limatic/hydrolo Vegetatio		ns typical for tim , Soil		Y/N /drology	$\frac{Y}{N}$	significantly disturbed				
	Vegetatio	n N	, Soil	N or Hy	drology/	N	naturally problematic				
Are No	ormal Circums MARY OF FIN	stances Pres	ent? Y	es x	No						
SUIVIN	Hydr	rophytic Vege	etation Present?	Yes	No	Х		1			
	,	Hydr	ric Soil Present?	Yes	No	Х				a Wetland?	
Rema		wetiand Hyd	Irology Present?	Yes	No	Х		Yes	No	Х	
	TATION										
Tree S	Stratum	Plot size:	30'	Absolute %	Domi		Indicator Statu	ıs			
1.				Cover	Spe	cies			Dor	ninance Test	Worksheet
2.									Number of	dominant spe	cies
3. 4.									that are Ol	BL, FACW, or per of dominar	FAC:
5.									species ac	ross all strata:	1
O ! !-	011	DI	451	0	Total C	over			Percent of	dominant spe	cies 0.00
Shrub 1.	Stratum	Plot size:	15'							BL, FACW, or e Index Work	FAC:
2.			 ,							% cover of:	Silect
3.									OBL speci		x 1 0
4. 5.							-		FACW speci		x 2 x 3
				0	Total C	over			FACU spe	cies 0	x 4 0
Herb S	Stratum Glycine max	Plot size:	5'	60	`	<i>(</i>	UPL	5	UPL speci Tota		x 5 300 300
1. 2.	Glycine max	residue			'		UPL	5	100	Prevalenc	
3.										tic Vegetation	
4. 5.					_					id Test for Hyd ninance Test is	
6.							-			alence Index i	
7.										phological Ada	
8.				60	Total C	over	-			ematic Hydrophy	oil and wetland
	y Vine Stratun	n_Plot size:	30'							ogy must be pi	
1. 2.									•	isturbed or pro	
			 ,	0	Total C	over					tion Present?
SOIL	Remarks:								Yes	No	X
SUIL	Pro	ofile Descrip	otion: (Describ	e to depth ne	eded to	docun	nent the indicator or	confirm	absence	of indicators.)
	Depth		Matrix				Redox Featu	ıres			,
	(inches) 0-18	Color 10YR 3/2	% 100	Color	%	Type"	Loc**	Text Si C		Remarks	
	0.0	.0									
	*Type:	C=Concentra	ation, D=Depleti	on, RM=Redu			Coated Sand grains	**Locat	ion: PL=Pc	re Lining, M=N	Matrix
	Histosol (A1)	1					dicators: Mineral (S1)		Red	ox Dark Surfac	ce (F6)
	Histic Epiped				5cm Mu	icky Pe	at or Peat	-		leted Dark Sur	
	Black Histic (Hvdrogen Su				Sandy (Gleyed	Matrix (S4)	-		ox Depression	s (F8) atic Hydric Soils
	Stratified Lay				Sandy I Stripped					st Prairie Redo	
	2 cm Muck (/	A10)			Loamy	Mucky I	Mineral (F1)	- -	Iron-	-Manganese M	lasses (F12)
	Depleted Bel Thick Dark S				Loamy Deplete		Matrix (F2)	-	Very Othe		Surface (F12)
Restri	ictive Layer (i				Deplete	u Main	х (гэ)		Otne	2 1	
			Depth (Inches)				Hydric Soil Pro	esent?	Yes	No	X
	Remarks: OLOGY										
	nd Hydrology	y Indicators:									
	Curfo on Mot	Prir	nary Indicators	(check all th	at apply	<u>')</u>	- (DO)			ondary Indica	
	Surface Water T				r Stained tic Fauna		s (B9)			oil Cracks (B6) Patterns (B10)	
	Saturation (A	\3) `´´		True	Aquatic F	Plants (l	B14)		Dry-Seaso	n Water Table	
	Water Marks				gen Sulf					urrows (C8)	sial Imagan, (CO)
	Sediment De Drift Deposits						es on Living Roots I Iron (C4)			Stressed Plan	rial Imagery (C9) nts (D1)
	Algal Mat or	Crust (B4)		Recei	nt Iron R	eductio	n in Tilled Soil (C6)		Geomorph	ic Position (D2	
	Iron Deposits		ial Imagery (B7)		Muck Su			<u> </u>	FAC-Neuti	al Test (D5)	
	Sparsely Vec			Guag Other	e or Wel	เ บลเล ((פּט				
Field		s: Surface W	ater Present?	Yes	No	Х	Depth (inches)			_	
		Water Tab Saturation	ole Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydrol	oy Indicat Yes	ors Present? No	x
Descri	ibe Recorded						ous inspections), if ava	ailable:	163	110	

Site: Client:		er-S. Baltimore	e-W. Millersport	City/County:		Fa	irfield County /nship, Range:	_Date:		n 2024 <u>Data Po</u> S7, T 16N, R 18	
Investi	igator(s):	N. Houk, N	I. Barnett	-		,, , , o v	Landform		nageways	Local Relief	Convex
Slope Soil M		1-3 e: Pewamo si	Lat. 3 ilty clay loam, lo	39.871979 ow caronate til	Long. IL 0 to 2	percer	-82.576534 nt slopes	Datum	NAD83	NWI Class:	N/A
C	limatic/hydro	logic condition	ns typical for tim	e of year?	Y/N	Υ	•				
	Vegetation Vegetation		,		drology drology		significantly disturbed naturally problematic				
	ormal Circum	stances Prese		es x			a.ay problemane -				
SUMN	MARY OF FIN Hvd		tation Present?	Yes	No	Х					1
	•	Hydri	c Soil Present?	Yes	No	Х	-			a Wetland?	
Remai		Wetland Hydr	rology Present?	Yes	No	Х		Yes	No	X	
	TATION										
Tree S	Stratum	Plot size:	30'	Absolute % Cover		inant cies	Indicator Statu	IS			
1.				Cover	Spe	CIES			Don	ninance Test W	orksheet
2.										dominant specie	7
3. 4.					-				Total numb	BL, FACW, or FA ber of dominant	
5.										ross all strata:	4
Shruh	Stratum	Plot size:	15'	0	Total C	over				dominant specie BL. FACW. or FA	50.00
1.	Rubus alleg	heniensis		5	•	Y	FACU	4	Prevalenc	e Index Worksh	
2.	Rosa multifle	ora		3		N	FACU	4	Total %	% cover of:	y 1
3. 4.					-				FACW species		x 1 <u>0</u> x 2 100
5.							· -		FAC speci	es 0	x 3 0
Herh S	Stratum_	Plot size:	5'	8	Total C	over			FACU specie		
1.	Conium mad			30	,	Y	FACW	2	Tota	al 98	322
2.	Lamium pur			30 20		Y Y	UPL	5] 	Prevalence	
3. 4.	Cyperus esc Stellaria me			10		Y N	FACW FACU	<u>2</u> 4		tic Vegetation In id Test for Hydro	
5.		u.u					17100	•	Dom	ninance Test is >	50%
6. 7.										/alence Index is : ohological Adapt	
7. 8.										lematic Hydrophytic	
	\" O	DI		90	Total C	over			*Indicat	ors of hydric soil	and wetland
Woods	y Vine Stratui	m_Plot size:	30'						,	ogy must be pres	•
2.										isturbed or probl	
	Remarks:			0	Total C	over			Hydror Yes	phytic Vegetatio No	on Present?
SOIL											~
	Pi Depth		ition: (Describ Matrix	e to depth ne	eded to	docu	ment the indicator or Redox Featu		n absence	of indicators.)	
	(inches)	Color	%	Color	%	Type	* Loc**	Text	ture	Remarks	
	0-18	10YR 3/2	100					Si (CL		
	*Type:	C=Concentra	l ation, D=Depleti	⊥ on, RM=Redu	iced Ma	trix, CS	S=Coated Sand grains	**Locat	tion: PL=Po	re Lining, M=Ma	trix
			•	•	Hydric	Soil I	ndicators:		D(D 0 f	(F0)
	Histosol (A1 Histic Epipe						Mineral (S1) eat or Peat			ox Dark Surface leted Dark Surfa	
	Black Histic	(A3) ´			Sandy	Gleyed	d Matrix (S4)		Redo	ox Depressions	(F8) ´
	Hydrogen Stratified La				Sandy Strippe					ors for Problemationst Prairie Redox	
	2 cm Muck (Mineral (F1)			-Manganese Mas	
	Depleted Be	low Dark Surf	ace (A11)		Loamy	Gleye	d Matrix (F2)			√ Shallow Dark S	urface (F12)
Restri		Surface (A12) (if observed):	Type:		Deplete	ed Mati	rix (F3) T		Othe	er	
			Depth (Inches)				Hydric Soil Pro	esent?	Yes	No	x
	Remarks: OLOGY										
		y Indicators:									
	Surface Wat		nary Indicators		at apply r Stained		oo /P0\			ondary Indicato oil Cracks (B6)	rs
	High Water				ic Fauna					Patterns (B10)	
	Saturation (A3) `´´		True	Aquatic	Plants	(B14)		Dry-Seaso	n Water Table (0	C2)
	Water Marks Sediment De				gen Sul		dor (C1) res on Living Roots			urrows (C8) Visible on Aeria	I Imagery (C9)
	Drift Deposit	ts (B3)					d Iron (C4)		Stunted or	Stressed Plants	
	Algal Mat or						on in Tilled Soil (C6)			ic Position (D2)	
	Iron Deposit		al Imagery (B7)		Muck Su e or We				FAC-Neutr	ral Test (D5)	
	Sparsely Ve	getated Conc	ave Surface	Other							
		e Surface W	ater Present?	Yes	No	Х	Depth (inches)				
Field (Observation			Voc	No	v	Donth (inches)	Hydro	lov Indicate	ore Procont?	
		Water Tab	le Present? Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches) ous inspections), if ava	_	loy Indicate Yes	ors Present? No	х

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name: limatic/hydrolo Vegetatior Vegetatior ormal Circumsi	AEP N. Houk, N 1-3 Benningtor gic conditior N N tances Prese	Lat. n silt loam, 0 tons typical for tir , Soil , Soil	State: _ 39.86654 2 percer ne of yea N	OH I1 It slope Ir? or Hyd	Long. es Y/N Irology Irology	n, Tow Y N	irifield County vnship, Range: Landforn -82.578898 significantly disturbed naturally problematic	m <u>M</u> Datum		12024 Data 518, T 16N, I Local Relie NWI Class	R 18W ef(22 Convex N/A
SUMN	-	phytic Vege Hydri	etation Present ic Soil Present	? Yes ¯		No No	X			DP within a			
Remai	ks:	Vetland Hydi	rology Present	? Yes		No	Х		Yes	No	Х		
VEGE	TATION			۸ h a a l .	.t. 0/	D							
1. 2. 3. 4. 5.		Plot size:		Absolu		Spe		Indicator Stat	us	Number of that are OF Total numb	ninance Tes dominant sp BL, FACW, o per of domina ross all strat	ecies or FAC: ant	1 3
Shrub 1. 2. 3. 4.		Plot size:		0		Total C	over			Percent of that are OF Prevalence	dominant sp BL, FACW, on the Index Work of cover of: the cover of:	ecies r FAC:	33.33
1.	Stratum Glycine max I Barbarea vulg Stellaria medi Allium vineale	garis ia	5'	0 40 20 20 5)	Total C	<u> </u>	UPL FAC FACU FACU	5 3 4 4	FACU species UPL species Tota Hydrophyt Rapi Dom Prev	cies 2	25 x 4 40 x 5 35 nce Inde: on Indic; or drophytis >50% c is ≤3.0°	100 200 360 x: 4.24 ators: ic Veg.
1. 2.	/ Vine Stratum			85		Total C				*Indicate hydrolo di	ematic Hydrop ors of hydric ogy must be sturbed or p ohytic Veget No	soil and present, roblema	wetland unless tic
SOIL	Pro	file Descrin	ntion: (Descri	he to der	oth nee	aded to	docu	ment the indicator of	r confirm	n ahsence	of indicator	e 1	1
	Depth		Matrix	be to dep	Juli He	tueu io	uocu	Redox Feat		ii absence	or indicator.	s. <i>j</i>	
	(inches)	Color	%	Col	or	%	Туре	* Loc**		ture	Remark	S	
	0-18	10YR 3/2	100						51	L			
	*Type: (C-Concentra	ation D=Denle	ion RM-	Reduc	ed Mat	rix C.S	S=Coated Sand grains	**Loca	tion: PI =Po	re Linina. M=	-Matrix	
	турс. С	<u> </u>	Allon, B-Beple			Hydric	Soil I	ndicators:	Looa	(IOI). 1 L=1 O	io Lilling, ivi-	-WIGHTA	
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3) fide (A4) ers (A5) a10) ow Dark Surf urface (A12)	, ,	- - - - - -		5cm Mu Sandy (Sandy I Strippe Loamy	icky P Gleyed Redox d Matr Mucky Gleye	ix (Ś6) ⁄ Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas	ox Dark Surfa eted Dark So ox Depressions for Probler st Prairie Rea Manganese Shallow Darer	urface (F ons (F8) natic Hyd dox (A16 Masses	7) Iric Soils S) (F12)
Restri	ctive Layer (if	observed):	: Type: Depth (Inches	\·				Hydric Soil P	rasant?	Yes	No	х	
	Remarks:		Deput (mones	7.				1 TIYOTIC SOILE	. cociil (162	INU		
	OLOGY												
wetiai	nd Hydrology		nary Indicator	s (check	all tha	t apply	·)			Seco	ondary Indic	ators	
	Sparsely Vege	r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conc	ial Imagery (B7 ave Surface		Water Aquation True A Hydrog Oxidize Present Recent	Stained Fauna quatic f gen Sulf ed Rhize ace of R	Leave (B13) Plants ide Od osphe educe educti rface ((B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	oil Cracks (Bi Patterns (B10 In Water Tab Jurrows (C8) Visible on A Stressed Platic Position (I al Test (D5)	6))) le (C2) erial Ima ants (D1	gery (C9))
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes Oring well	, aerial	No No No photos	x x x , prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av		loy Indicate Yes	ors Present' No	? x	

Client: Investig Slope (Soil Ma Cl	gator(s): (%): ap Unit Name: imatic/hydrolo Vegetatior Vegetatior ormal Circumsi	AEP N. Houk, N 1-3 Benningtor gic conditior N N tances Prese	Lat. n silt loam, 0 to ns typical for tir , Soil , Soil	State: 39.8602 2 perce	OH 15 ent slop ar? or Hy	Long. es Y/N drology drology	n, Tov	nirfield County vnship, Range: Landforn -82.581483 significantly disturbed naturally problematic	n <u>M</u> Datum	27 March Sec S oraines NAD83	2024 Data 518, T 16N, F Local Relie NWI Class	R 18W fC	19 Convex N/A
SUMM	-	phytic Vege Hydri	tation Present ic Soil Present	? Yes		No No	X	_		DP within a	a Wetland?		
Remar		Vetland Hydi	rology Present	? Yes		No	Х		Yes	No	Х		
VEGE	TATION			A I I		D				1			
Tree S 1. 2. 3. 4. 5.		Plot size:			ute % ver		inant	Indicator State	us	Number of that are Of Total numb	ninance Test dominant sp BL, FACW, o per of domina ross all strata	ecies FAC: nt	0 2
	Stratum	Plot size:	15'		0	Total C	over			Percent of that are Of Prevalenc	dominant speak, FACW, or elindex Work cover of: es ecies	ecies FAC:	0.00 0 0 15
<u>Herb S</u> 1. 2.	Stratum Zea mays res Stellaria medi Barbarea vulg	ia	5'	7 2	0 0 0 5		over Y Y N	UPL FACU FAC	5 4 3	FACU species Tota Hydrophyte Rapies Dome	cies 2		80 350 445 4.68 ators: c Veg.
8. <u>Woody</u> 1. 2.	Vine Stratum		5'		0	Total C				Probl *Indicat hydrold di	ematic Hydropl ors of hydric ogy must be p sturbed or pr ohytic Veget No	nytic Vege soil and present, oblemat	etation* wetland unless ic
SOIL	Pro	file Descrin	ntion: (Descri	ne to de	nth ne	eded to	doci	ment the indicator or	confirm	n absence	of indicators		
ſ	Depth		Matrix	Je to de	purne	cucu it		Redox Feat		ii abscilec	or indicators	·- <i>)</i>	
	(inches)	Color	%	Co	olor	%	Туре	e* Loc**		ture	Remarks	3	
	0-18	10YR 4/3	100						L	_			
ŀ													
	*Type: (C=Concentra	tion. D=Deple	ion. RM	=Redu	ced Mat	rix. CS	S=Coated Sand grains	**Locat	tion: PI =Po	re Linina. M=	Matrix	
	. , , , , ,		2 200.00			Hydric	Soil I	ndicators:			· <u>J</u> ,		
	Histosol (A1) Histic Epipedo Black Histic (I Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	A3) fide (A4) ers (A5) a10) ow Dark Surf urface (A12)	, ,			5cm Ma Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleye	ix (Ś6) / Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas	ox Dark Surfa eted Dark Su ox Depressio rs for Problen st Prairie Red Manganese I Shallow Dar	irface (F ns (F8) natic Hyd lox (A16 Masses	ric Soils) (F12)
Resuit	Clive Layer (II	observeu).	Depth (Inches):				Hydric Soil Pr	esent?	Yes	No	x	
	Remarks:		, ,										
	OLOGY nd Hydrology	Indicators:											
		Prin	nary Indicator	s (check					L	Sec	ondary Indic	ators	
	Sparsely Vege	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc)	Aquati True A Hydro Oxidiz Preser Recen Thin N	ed Rhiz	a (B13) Plants fide Od osphe Reduce educti rface ((B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	oil Cracks (Be) catterns (B10 n Water Tabl urrows (C8) Visible on Ae Stressed Plai ic Position (D al Test (D5)) e (C2) erial Ima nts (D1)	gery (C9)
Field (Observations:	Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes oring we	II, aeria	No No No Il photos	X X X S, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if avi		loy Indicate Yes	ors Present? No	x	

Client: Invest Slope Soil M	igator(s):	AEP N. Houk, N 1-3 Aetna silt I gic condition N N	N. Barnett Lat. loam, occasion s typical for tir , Soil , Soil	State	232 oded ear? or Hy	Long Y/N vdrology	on, Tov	airfield County vnship, Range: Landfor -82.583901 significantly disturbed naturally problematic	m Floo Datum		2024 Data 519, T 16N, R Local Relief NWI Class:	18W	nonvex N/A
	MARY OF FIND	INGS phytic Vege	etation Present	? Yes	Х	No		=	1				
Domo			ic Soil Present rology Present			No No	X X	_	Is the Yes	DP within a	a Wetland?		
Rema VEGE	TATION												
1. 2. 3. 4.		Plot size:			olute % over		ninant ecies	Indicator Sta	tus	Number of	ninance Test dominant spe BL, FACW, or per of dominar	cies	neet 22
1. 2. 3.	<u>Stratum</u>	Plot size:	15'		0	Total (Cover			Percent of that are Of Prevalenc Total % OBL speci-		cies FAC: sheet	100.00
4. 5. Herb 9 1. 2. 3. 4. 5. 6.	Stratum Phalaris arund Apocynum ca Echinacea pa Allium vineale	nnabinum Ilida	5'		0 45 20 10 5	Total (Cover Y Y N N	FACW FAC UPL FACU	2 3 5 4	Rapi x Dom	es 20 cies 5 es 10	e Index Indica Irophytics >50%	tors:
1. 2.	y Vine Stratum				80	Total (Probl *Indicate hydrolo di Hydro p	phological Ada ematic Hydroph ors of hydric s ogy must be p sturbed or pro phytic Vegeta	vtic Vege oil and v resent, u oblemati	tation* wetland unless c
SOIL	Remarks:									Yes	x No		
00.2				be to c	epth ne	eded t	o docu	ment the indicator o		n absence	of indicators.)	
	Depth (inches)	Color	Matrix %	-	Color	%	Type	Redox Fea		ture	Remarks		-
	0-18	10YR 3/2			Oloi	/0	Турс	LUC	Si (Remarks		-
			 										-
	*Type: C	C=Concentra	ation, D=Deple	ion, RI	M=Redu			S=Coated Sand grains Indicators:	**Loca	tion: PL=Po	re Lining, M=N	<i>l</i> atrix	
	Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo	A3) fide (A4) ers (A5) 10)	face (A11)			Sandy 5cm M Sandy Sandy Strippo Loamy	Mucky Mucky P Gleyed Redox ed Matr Mucky	Mineral (S1) Peat or Peat d Matrix (S4) (S5)		Depl Redo Indicato Coas	ox Dark Surface eted Dark Sur ox Depression rs for Problem ot Prairie Redo Manganese M Shallow Dark	face (F7 s (F8) atic Hydr ox (A16) lasses (ic Soils F12)
	Thick Dark Su	ırface (A12)	, ,			Deple	ted Mat	rix (F3)		Othe			- ()
Restri	ictive Layer (if	observed):	: Type: Depth (Inches	١٠				Hydric Soil P	recent?	Yes	No	х	
	Remarks:		Deptil (Iliches).				Tiyane Son i	resent:	163	NO		
	OLOGY	ll' 1											
wetia	nd Hydrology		nary Indicator	s (che	k all th	at app	lv)			Sec	ondary Indica	tors	
	Sparsely Vege	r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conc	ial Imagery (B7 ave Surface)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	r Staine lic Faur Aquatic ligen Su liged Rhi lince of lint Iron I Muck Si lige or We	ed Leav na (B13 Plants Ilfide Od zosphe Reduce	(B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	il Cracks (B6) catterns (B10) n Water Table urrows (C8) Visible on Ae Stressed Plar ic Position (D2 al Test (D5)	e (C2) rial Imaç nts (D1)	gery (C9)
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes	oll 055'	No No No	X X X	Depth (inches) Depth (inches) Depth (inches)		loy Indicate Yes	ors Present? No	х	
Descr	ine kecolaea L	vata (Stream	i guage, monito	ning w	en, aeria	ai prioto	, prev	ious inspections), if a	aliable.				

Client: Invest Slope Soil M	igator(s): (%): (ap Unit Name limatic/hydrolo Vegetation Vegetation	AEP N. Houk, N 1-3 : Minster sillogic condition n N n N	N. Barnett Lat. Ity clay loam ins typical fo , Soil , Soil	39.85 1, 0 to 1 p r time of N	e: OH 1571 ercent sl year? or Hy or Hy	Long. opes Y/N rdrology	n, Tow 	irfield County unship, Range: Landform -82.584979 significantly disturbed naturally problematic	- ı Lak		2024 Data Po 19, T 16N, R 18 Local Relief NWI Class:	
	ormal Circums MARY OF FINI			Yes	X	No No		-	1			
	-	Hydr Wetland Hyd	ric Soil Pres	ent? Yes	X	_No No	X 	- -	Is the Yes	DP within a No	Wetland?	
Rema	rks: TATION								-			
				Abs	solute %	Dom	inant					
1. 2. 3. 4.		Plot size:			Cover	Spe	cies	Indicator Statu	JS	Number of o	inance Test Wo dominant specie L, FACW, or FA er of dominant	es 0 AC:0
5.	Stratum	Plot size:			0	Total C	over			species acre Percent of contract that are OB	oss all strata: dominant specie L, FACW, or FA e Index Worksh	es 0.00
2. 3. 4. 5.										Total % OBL specie FACW specie FAC specie	cover <u>of:</u> es	x 1 0 x 2 0
Herb \$ 1. 2.	Stratum Glycine max Lolium multifi	Plot size: residue	_		0 60 30	Total C	over /	UPL UPL	5 5	FACU spec UPL specie Total	s 90)	x 5 450 450
3. 4. 5. 6. 7.										Rapid Domi Preva	ic Vegetation Ir d Test for Hydro nance Test is statence Index is	phytic Veg. 50% < <u>3</u> .0*
8.					00	T-1-10				Proble	ematic Hydrophytic	Vegetation*
Wood 1. 2.	y Vine Stratum	n_ Plot size:	30'		90	Total C				hydrolog dis	ors of hydric soil gy must be pres sturbed or proble	sent, unless ematic
	Remarks:	1			0	Total C	over			Hydrop Yes	hytic Vegetatio No	n Present? x
SOIL												
	Depth Pro		ption: (Des Matrix	cribe to	depth ne	eded to	docu	ment the indicator or Redox Featu		n absence o	of indicators.)	
	(inches)	Color	%		Color	%	Туре	* Loc**	Text		Remarks	
	0-4 4-18	10YR 2/2 10YR 2/2		10	YR 4/6	5	С	M	C			
	4-10	1011 2/2	93	10	711(4/0	3		IVI		<u> </u>		
	*Type:	C=Concentr	ation D=De	pletion R	M=Redu	ced Mat	rix C.S	 S=Coated Sand grains	**Locat	ion: PI =Por	e Lining, M=Mat	rix
	1,700.	<u>0-00110011111</u>	<u>ution, b-bo</u>	piotion, r		Hydric	Soil I	ndicators:	Local		G,	
	_Histosol (A1) _Histic Epiped Black Histic (lon (A2) (A3)				5cm Mu Sandy (icky É Gleyed	Mineral (S1) eat or Peat Matrix (S4)		Deple Redo	x Dark Surface eted Dark Surfac x Depressions (ce (F7) F8)
	Hydrogen Su Stratified Lay					Sandy I					s for Problemation	
	2 cm Muck (A							Mineral (F1)			Manganese Mas	
	Depleted Bel							d Matrix (F2)			Shallow Dark Si	urface (F12)
Postri	Thick Dark S ictive Layer (i					Deplete	ed Mati	rix (F3) 1		Other	ſ	
IIVE SUI	ictive Layer (i	i observeu)	Depth (Incl	hes):				Hydric Soil Pro	esent?	Yes	x No	
	Remarks:							_				
	OLOGY nd Hydrology	/ Indicators										
		Prir	nary Indica	tors (che							ndary Indicato	rs
	_Surface Wate _High Water T _Saturation (A _Water Marks	āble (A2) .3)			Aquat	r Stained ic Fauna Aquatic F gen Sulf	a (B13) Plants) (B14)		Drainage Pa	il Cracks (B6) atterns (B10) n Water Table (C irrows (C8)	; 2)
	Sediment De Drift Deposits Algal Mat or (Iron Deposits	S (B3) Crust (B4)			Prese Recer	nce of R	educe eduction	res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)		Stunted or S	Visible on Aerial Stressed Plants c Position (D2) al Test (D5)	
	Inundation Vi	isìble on Aeri			Guag	e or Wel						
Field	Sparsely Veg Observations				Other	No	Х	Depth (inches)	1			
1614	- Door valions	Water Tab	ole Present?	Yes		No	Х	Depth (inches) Depth (inches)	Hydro		rs Present?	v
Descri	ibe Recorded		<u>n Present?</u> n guage, mo	Yes onitoring v		No al photos	x , previ	ous inspections), if ava	ailable:	Yes	No	Х

Client: Invest Slope Soil M	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Canal silt lo	Lat. 3	State: 39.84599 cent slo	94 pes	Long.	n, Tow	irfield County vnship, Range: Landforn 	n Te	27 March Sec Serraces NAD83	n 2024 Da 319, T 16N Local Re NWI Clas	, R 18W lief	Convex N/A
Are No	Vegetation Vegetation ormal Circumst	N N ances Prese	, Soil	N N /es	or Hy or Hy x	-	N	significantly disturbed naturally problematic	I				
	W	Hydri	ic Soil Present? rology Present?	? Yes		No No No	X X X		Is the Yes	DP within a	a Wetland? x	>	
Rema VEGE	rks: TATION												
1. 2. 3. 4.	Stratum_	Plot size:		Absolu		Dom Spe	inant cies	Indicator Stat	us	Number of that are Of Total numb	BL, FACW, per of domi	species or FAC: nant	0
5. Shrub 1. 2. 3. 4. 5.	Stratum_ Pyrus callerya Sambucus cal Lonicera maad	nadensis	15'	4-	5		over Y Y	UPL FACU UPL	5 4 5	Percent of that are Of Prevalenc	BL, FACW, e Index We 6 cover of: es ecies	species or FAC: or ksheet $\frac{0}{0} \times 1$	0 0
Herb 5 1. 2. 3. 4. 5.	Stratum_ Allium vineale Solidago cana Poa pratensis	adensis		30 20 10	0		over Y Y	FACU FACU FAC	4 4 3	FACU species Tota Hydrophytes Rapies Dome	cies es Prevale tic Vegetat id Test for I sinance Test ralence Inde	Hydrophy at is >50% ax is <u><</u> 3.0	260 250 540 ex: 4.32 cators: rtic Veg. %
1. 2.	y Vine Stratum Remarks:	_ Plot size:		6		Total C				Probl *Indicat hydrolo di	phological A ematic Hydro ors of hydri ogy must be isturbed or phytic Vego No	ophytic Ver c soil and e present problema etation F	getation* d wetland t, unless atic Present?
SOIL	Pro	file Descrip	tion: (Describ	e to de	pth ne	eded to	docu	ment the indicator o	r confirn	n absence	of indicato	rs.)	
	Depth (inches) 0-18	Color 10YR 4/2	Matrix % 100	Со	olor	%	Туре	Redox Feat	Text		Remar	ks	
	*Type: C	C=Concentra	ation, D=Deplet	ion, RM	=Redu	ced Mat	rix, CS	S=Coated Sand grains	**Locat	tion: PL=Po	re Lining, N	∕I=Matrix	
	History (A4)							ndicators: Mineral (S1)		Dad	ari Danii Cri	-fa-a- (EC	
Restri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	, ,			5cm Mi Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleyed	eat or Peat ´ I Matrix (S4) (S5) ix (S6) d Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas	ox Dark Suleted Dark Sox Depressors for Problest Prairie Rumanganese Shallow Der	Surface (ions (F8) ematic Hy edox (A1 e Masses	(F7) odric Soils 6) s (F12)
			Depth (Inches)):				Hydric Soil P	resent?	Yes	No) х	
	Remarks: OLOGY												
	nd Hydrology												
	Sparsely Vege	r (A1) able (A2) B) (B1) sosits (B2) (B3) crust (B4) (B5) sible on Aerie			Water Aquati True A Hydrog Oxidiz Presen Recen Thin M	Stained ic Fauna Aquatic I gen Sulf ed Rhiz nce of R	d Leave a (B13) Plants fide Oc osphe Reduce eduction	(B14) dor (C1) res on Living Roots dof Iron (C4) on in Tilled Soil (C6) C7)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	n Water Ta urrows (C8) Visible on A Stressed F ic Position	36) 10) ble (C2)) Aerial Im Plants (D' (D2)	agery (C9)
	Observations:	Surface Water Table Saturation	ater Present? le Present? Present?	Yes Yes Yes oring wel	l, aeria	No No No al photos	x x x s, previ	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av	_	loy Indicate Yes			

			e-W. Millersport				field County	Date:	27 March 2024		10
Client: Investi	igator(s):	AEP N. Houk, N		State: OH	_Section	n, Iowr	nship, Range: Landform	Lak	Sec S24, T 16 te Plains Local F		nvex
Slope	(%):	1-3	Lat. 3	9.843258	Long.		- -82.588475	Datum			V/A
			ty clay loam, 0 to								
С	limatic/hydrolog Vegetation	gic conditior N	ns typical for tim , Soil	e of year? N or H\	Y/N /drology	$\frac{Y}{N}$	significantly disturbed				
	Vegetation	N	, Soil		/drology		naturally problematic				
	ormal Circumst	ances Pres		es x			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
SUMN	IARY OF FIND		totion Dragant?	V	NI-			ı			
	пушо		etation Present? ic Soil Present?		_No No	X		Is the I	DP within a Wetlan	43	
			rology Present?		No	X		Yes	No x		
Remai								-			
	TATION			Absolute %	Domi	inant					
Tree S	Stratum_	Plot size:	30'	Cover	Spe		Indicator Statu	s			
1.				0010.	Opo.	0.00			Dominance '	Test Worksh	eet
2.									Number of dominan		1
3. 4.									that are OBL, FACV Total number of dor	W, or FAC:	
5.	-			-					species across all s	strata:	3
				0	Total Co	over			Percent of dominan	t species	33.33
	Stratum Cornus alba	Plot size:	15'	30	Υ	,	FACW	2	that are OBL, FACV		
1. 2.	Rubus alleghe	eniensis		20	- - '		FACU	<u>2</u> 4	Prevalence Index Notal % cover of		
3.	Rosa multiflor	а		10	N	-	FACU	4	OBL species	10 x 1	10
4.	Lonicera maa	ckii		5	N	1	UPL		FACW species	30 x 2	60
5.	-			65	Total Co	over	-		FAC species FACU species	30 x 3 75 x 4	90 300
Herb S	Stratum	Plot size:	5'		_ 10101 01	0 7 01			UPL species	5 x 5	25
1.	Solidago cana			40	<u>Y</u>		FACU	4	Total	150	485
2. 3.	Juncus tenuis Poa pratensis			15 15	<u> </u>	-	FAC FAC	3	Preva Hydrophytic Veget	alence Index:	
3. 4.	Juncus effusu			10	N		OBL	1	Rapid Test fo		
5.	Symphyotrich	um ericoide	S	5	N	1	FACU	4	Dominance T	est is >50%	,
6. 7.				-	-				Prevalence Ir		*
7. 8.									Morphologica Problematic Hy		
				85	Total Co	over			*Indicators of hyd		
	y Vine Stratum	Plot size:	30'						hydrology must		
1.									disturbed (or problemation	
2.									disturbed t	or problemane	,
2.				0	Total Co	over			Hydrophytic Ve	egetation Pre	
ı	Remarks:			0	Total Co	over			Hydrophytic Ve	•	
		l file Descrip	otion: (Describ				nent the indicator or	confirm	Hydrophytic Ve Yes	egetation Pre No x	
ı	Pro Depth	İ	Matrix `	e to depth no	eeded to	docun	nent the indicator or Redox Featu	ıres	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches)	Color	Matrix %			docun		res Text	Hydrophytic Ve Yes n absence of indica	egetation Pre No x	
ı	Pro Depth (inches) 0-6	Color 10YR 4/1	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches)	Color	Matrix %	e to depth no	eeded to	docun	Redox Featu	res Text	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches) 0-6	Color 10YR 4/1	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches) 0-6 6-18	Color 10YR 4/1 10YR 4/1	Matrix	e to depth no Color 10YR 5/6	% 5	Type*	Redox Featu Loc**	res Text Si Si C	Hydrophytic Veryes n absence of indicature Rem L CL	egetation Pre No x ators.)	
ı	Pro Depth (inches) 0-6 6-18	Color 10YR 4/1 10YR 4/1	Matrix	e to depth no Color 10YR 5/6	% 5 uced Matr	Type* C rix, CS=	Redox Featu Loc** M -Coated Sand grains dicators:	res Text Si Si C	Hydrophytic Veryes n absence of indications ure Rem L C L ion: PL=Pore Lining	egetation Pre No x ators.) harks , M=Matrix	
ı	Pro Depth (inches) 0-6 6-18 *Type: C	Color 10YR 4/1 10YR 4/1	Matrix	e to depth no Color 10YR 5/6	% 5 suced Mate	docun Type* C rix, CS= Soil In	Redox Featu Loc** M Coated Sand grains dicators: Mineral (S1)	res Text Si Si C	Hydrophytic Veryes n absence of indicators ure Rem L C L ion: PL=Pore Lining Redox Dark S	egetation Pre No x ators.) marks , M=Matrix Surface (F6)	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C	Color 10YR 4/1 10YR 4/1 =Concentra	Matrix	e to depth no Color 10YR 5/6	% 5 suced Mate Hydric Sandy N 5cm Mu	Type* C rix, CS= Soil In Mucky N	Redox Featu Loc** M Coated Sand grains dicators: Wineral (S1) at or Peat	res Text Si Si C	Hydrophytic Veryes n absence of indication: L C L ion: PL=Pore Lining Redox Dark S Depleted Dar	egetation Pre No x ators.) harks , M=Matrix Surface (F6) k Surface (F7	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (# Hydrogen Sull	Color 10YR 4/1 10YR 4/1 ==Concentra on (A2) 33) fide (A4)	Matrix	e to depth no Color 10YR 5/6	% 5 suced Mate Hydric Sandy N 5cm Mu	Type* C rix, CS= Soil In Mucky N ucky Pe Gleyed	Redox Featu Loc** M Coated Sand grains dicators: wineral (S1) at or Peat Matrix (S4)	res Text Si Si C	Hydrophytic Veryes n absence of indicators ure Rem L C L ion: PL=Pore Lining Redox Dark S	egetation Pre No x ators.) harks , M=Matrix Surface (F6) k Surface (F7 ssions (F8)	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (A1) Hydrogen Sull Stratified Laye	Color 10YR 4/1 10YR 4/1 10YR 4/1 ==Concentra on (A2) A3) Fide (A4) ers (A5)	Matrix	e to depth no Color 10YR 5/6	eeded to % 5 ced Mate Hydric Sandy f Sandy (Sandy (Sandy (Sandy f Stripped	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6)	res Text Si Si C	Hydrophytic Veryes n absence of indication: PL=Pore Lining Redox Dark S Depleted Dar Redox Depre Indicators for Pro Coast Prairie	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16)	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (A) Hydrogen Sull Stratified Laye 2 cm Muck (A	Color 10YR 4/1 10YR 4/1 10YR 4/1 2=Concentra on (A2) A3) fide (A4) ers (A5) 10)	Matrix % 100 95 ation, D=Depletic	e to depth no Color 10YR 5/6	eeded to % 5 ceed Mate Hydric Sandy N Sandy O Sandy S Strippec Loamy	rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Mucky	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1)	res Text Si Si C	Hydrophytic Veryes n absence of indicators of PL=Pore Lining Redox Dark Some Depleted Dare Redox Depresidations for Processing Coast Prairie Iron-Mangane	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16) ese Masses (I	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/1 10YR 4/1 10YR 4/1 E=Concentra on (A2) A3) ide (A4) ers (A5) 10) w Dark Suri	Matrix % 100 95 ation, D=Depletic	e to depth no Color 10YR 5/6	eeded to % 5 ceed Mate Hydric Sandy N Sandy O Sandy S Strippec Loamy	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2)	res Text Si Si C	Hydrophytic Veryes n absence of indication: PL=Pore Lining Redox Dark S Depleted Dar Redox Depre Indicators for Pro Coast Prairie	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16) ese Masses (I	sent?
SOIL	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (A) Hydrogen Sull Stratified Laye 2 cm Muck (A	Color 10YR 4/1 10YR 4/1 10YR 4/1 E=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surlarface (A12)	Matrix % 100 95 ation, D=Depletion face (A11)	e to depth no Color 10YR 5/6 on, RM=Redu	seeded to % 5 Loced Mate Hydric Sandy F 5cm Mu Sandy F Sandy F Sandy F Sandy F Loamy Loamy	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed	Redox Featu Loc** M Coated Sand grains dicators: dineral (S1) at or Peat Matrix (S4) S5) (S6) Mineral (F1) Matrix (F2) x (F3)	Text Si Si C ***Locat	Hydrophytic Veryes n absence of indications PL=Pore Lining Redox Dark Some Depleted Dare Redox Depresions for Proceeding Iron-Mangane Very Shallow Other	marks M=Matrix M=Matrix M=Matrix Gurface (F6) k Surface (F7 ssions (F8) blematic Hydri Redox (A16) ese Masses (I Dark Surface	sent?
SOIL	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedd Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 4/1 10YR 4/1 10YR 4/1 E=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surlarface (A12)	Matrix % 100 95 ation, D=Depletic	e to depth no Color 10YR 5/6 on, RM=Redu	seeded to % 5 Loced Mate Hydric Sandy F 5cm Mu Sandy F Sandy F Sandy F Sandy F Loamy Loamy	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2)	Text Si Si C ***Locat	Hydrophytic Veryes n absence of indications PL=Pore Lining Redox Dark Some Depleted Dare Redox Depresions for Proceeding Iron-Mangane Very Shallow Other	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16) ese Masses (I	sent?
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SOIL Restri	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks)	Color 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surl rface (A12) observed): Indicators: Prin r (A1) able (A2) B) (B1)	Matrix % 100 95 ation, D=Depletion face (A11) Type: Depth (Inches)	cto depth not color Color 10YR 5/6 con, RM=Reduce X	eeded to % 5 Icced Matt Hydric Sandy N Sandy P Strippec Loamy Loamy Deplete at apply r Stained tic Fauna Aquatic F ggen Sulf	rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed d Matrix Mucky Gleyed d Matrix I Leaves a (B13) Plants (I Gide Odd	Redox Featu Loc** M	**Locat	Hydrophytic Veryes n absence of indicators in the secondary In Surface Soil Cracks Drainage Patterns (Drainage Patterns (Dray-Season Water Crayfish Burrows (Drainage Patterns (Dray-Season Water Crayfish Burrows (Dray-Season Water Crayfish Burrows (Drainage Patterns (Dray-Season Water Crayfish Burrows (Dray-Season Wa	egetation Pre No x ators.) marks marks M=Matrix Surface (F6) k Surface (F7 ssions (F8) blematic Hydri Redox (A16) ese Masses (I Dark Surface No mdicators s (B6) (B10) Table (C2) C8)	c Soils = 12)
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SOIL Restri	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks	Color 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) 33) fide (A4) ers (A5) 10) w Dark Surl urface (A12) observed): Indicators: Prin r (A1) able (A2) 8) B1) lossits (B2) (B3) rrust (B4) (B5)	Matrix % 100 95 ation, D=Depletic	cto depth not color colo	eeded to % 5 Iced Mate Hydric Sandy N Sandy N Sandy N Sandy S Stripped Loamy Loamy Loamy Deplete sat apply r Stained tic Fauna Aquatic F gen Sulf zed Rhizo ence of R ent Iron R Muck Sun	Type* C C Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Pe Gleyed d Matrix File I Leaves a (B13) Plants (l'ide Odo osphere educed eduction face (C	Redox Featu Loc** M	res Text Si Si C **Locat	Hydrophytic Veryes n absence of indications PL=Pore Lining Redox Dark Some Depleted Dare Redox Depreside Indicators for Proceed Prairie Iron-Mangane Very Shallow Other Yes x Secondary In Surface Soil Cracks Drainage Patterns (Dry-Season Water Crayfish Burrows (C Saturation Visible of Stunted or Stressed	egetation Pre No x ators.) harks marks m	c Soils = 12)
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Restri	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks	Color 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surl urface (A12) observed): Indicators: Prin r (A1) able (A2) B1) ossits (B2) (B3) crust (B4) (B5) gible on Aerietated Concentrated	Matrix % 100 95 ation, D=Depletic face (A11) Type: Depth (Inches): nary Indicators	cto depth not color colo	eeded to % 5 Icced Mate Hydric Sandy for Stripped Loamy Loamy Loamy Deplete Totalined Aquatic Fogen Sulfed Rhizzed Renter of Renter	Type* C C Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Pe Gleyed d Matrix File I Leaves a (B13) Plants (l'ide Odo osphere educed eduction face (C	Redox Featu Loc** M	res Text Si Si C **Locat	Hydrophytic Veryes n absence of indication: PL=Pore Lining Redox Dark Some Depleted Dare Redox Depresided Prairie Iron-Mangane Very Shallow Other Yes x Secondary In Surface Soil Cracks Drainage Patterns (Dry-Season Water Crayfish Burrows (Casturation Visible of Stunted or Stressed Geomorphic Positions)	egetation Pre No x ators.) harks marks m	c Soils = 12)
Restri	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Inundation Vis Sparsely Veget	Color 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 c=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surinface (A12) observed): Indicators: Prin r (A1) able (A2) b) rust (B4) (B5) crust (B4) (B5) sible on Aerie etated Conc Surface W Water Tab	Matrix % 100 95 ation, D=Depletion face (A11) Type: Depth (Inches): nary Indicators al Imagery (B7) ave Surface ater Present? le Present?	cto depth not color Color 10YR 5/6 10YR	seeded to % 5 Loced Mate Hydric Sandy F San	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed d Matrix Mucky Fleated d Matrix Mucky Gleyed	Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Redox Feature	**Locat	Hydrophytic Veryes n absence of indicate	egetation Pre No x ators.) harks marks M=Matrix Surface (F6) k Surface (F7 ssions (F8) blematic Hydri Redox (A16) ese Masses (I Dark Surface No ndicators 6 (B6) (B10) Table (C2) (C8) n Aerial Imag d Plants (D1) on (D2) (D5)	c Soils = 12)
Restri HYDR Wetlar	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Vater Marks Coediment Deposits Algal Mat or Coediment Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 4/1 con (A2) A3) fide (A4) ers (A5) 10) w Dark Surriface (A12) observed): Indicators: Print r (A1) able (A2) B1) cosits (B2) (B3) crust (B4) (B5) sible on Aerietated Conc Surface W Water Tab Saturation	Matrix % 100 95 ation, D=Depletion face (A11) Type: Depth (Inches): mary Indicators fall Imagery (B7) fave Surface fall Present? Present?	cto depth not color colo	eeded to % 5 Inced Matt Hydric Sandy F Sandy F Sandy F Stripped Loamy No No No No	Type* C C Soil In Mucky Pe Gleyed (A Matrix Mucky Pe Gleyed (B Matrix Mucky Pe Gleyed (B Matrix Mucky Pe Gleyed (C Matrix X X	Redox Featu Loc** M	**Locat	Hydrophytic Veryes n absence of indicate	egetation Pre No x ators.) marks m	c Soils = 12)

Client: Invest	igator(s):	AEP N. Houk, N	l. Barnett	State	: <u>OH</u>	Section	n, Tov	uirfield County vnship, Range: Landform	n Te	Sec :	n 2024 Da S25, T 16N, Local Rel	, R 19W lief(8 Convex
Slope Soil M C	(%): lap Unit Name: limatic/hydrolo Vegetatior Vegetatior	Canal silt I gic condition N	oam, 0 to 2 pe	39.838 rcent sl ne of yo N	opes ear? or Hy	Y/N drology drology	Y	-82.590298 significantly disturbed naturally problematic	_	NAD83	_ NWI Clas	SS:	N/A
	ormal Circumst	tances Prese	ent?	Yes .	X		IN	_naturally problematic -					
Domo	V	Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X X X		Is the Yes	DP within No	a Wetland? x	<i>`</i>	
Rema VEGE	TATION												
1. 2.		Plot size:			olute % over	Spe		Indicator State	ıs	Number of	ninance Te f dominant s	species	sheet 0
3. 4. 5.										-	BL, FACW, ber of domin cross all stra		1
	Stratum	Plot size:	15'		0	Total C	over	-		Percent of that are Ol Prevalence	dominant s BL, FACW, ce Index Wo cover of:	species or FAC:	0.00
3. 4. 5.										OBL speci FACW speci FAC speci	es ecies	0 x 1 0 x 2 0 x 3	0 0 0
	Stratum Triticum aesti	Plot size:	5'		0	Total C		UPL	5	FACU speci UPL speci Tota	cies es	0 x 4 80 x 5	0 400 400
2. 3. 4.		vum residue			00		ı	UPL	5	Hydrophy Rap	Prevale tic Vegetat id Test for F	ence Index ion Indica lydrophyt	x: 5.00 ators: ic Veg.
5. 6. 7.										Prev Mor	ninance Tes valence Inde phological A	ex is $\leq 3.0^{\circ}$ Adaptation	้* าร*
8. <u>Wood</u> 1.	y Vine Stratum				80	Total C	over	<u> </u>		*Indicat	lematic Hydro ors of hydri ogy must be	c soil and	wetland
2.					0	Total C	over	-			isturbed or phytic Vege	•	
SOIL	Remarks:									Yes	No	<u> </u>	
	Pro Depth		otion: (Descri Matrix	oe to d	epth ne	eded to	docu	ment the indicator or Redox Feat		n absence	of indicato	rs.)	
	(inches)	Color	%	С	olor	%	Туре	* Loc**	Text		Remar	ks	
	0-18	10YR 4/2	100						Si (S L			
	*Type: 0	C=Concentra	ation, D=Deple	ion, RN	∕l=Redu			S=Coated Sand grains ndicators:	**Locat	tion: PL=Pc	ore Lining, M	/I=Matrix	
	Histosol (A1)					Sandy	Mucky	Mineral (S1)			ox Dark Sui		
	Histic Epipedo Black Histic (A				-			eat or Peat d Matrix (S4)			leted Dark Sox Depress		- 7)
	Hydrogen Sul	fide (A4)				Sandy	Reďox	(S5) `		Indicato	ors for Proble	ematic Hyd	
	Stratified Laye 2 cm Muck (A	ers (A5) .10)				Strippe		ix (S6) / Mineral (F1)			st Prairie Re -Manganese		
	Depleted Belo	ow Dark Surf				Loamy	Gleye	d Matrix (F2)		Very	/ Shallow Da		
Restri	Thick Dark Suictive Layer (if					Deplete	ed Mat	rix (F3) I		Othe	∍r		
			Depth (Inches):				Hydric Soil Pr	esent?	Yes	No) х	
	Remarks:												
	nd Hydrology			, .		, ,	,						
	Surface Wate		nary Indicator	s (cnec		Stained		es (B9)			ondary Ind oil Cracks (E		
	High Water Ta					ic Fauna Aquatic I					Patterns (B1 on Water Ta		
	Water Marks	(B1)			Hydro	gen Sul	fide O	dor (C1)		Crayfish B	urrows (C8)) `´´	
	Sediment Dep Drift Deposits			-				res on Living Roots ed Iron (C4)		Saturation Stunted or	Visible on A Stressed P	Aerial Ima	agery (C9)
	Algal Mat or C	Prust (B4)			Recer	nt Iron R	educti	on in Tilled Soil (C6)		Geomorph	ic Position	(D2)	,
	Iron Deposits Inundation Vis		al Imagery (B7)		/luck Su e or Wel				FAC-Neuti	ral Test (D5)	
	Sparsely Vege	etated Conc	ave Surface	,	Other								
Field	Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hvdro	lov Indicat	ors Presen	t?	
Doco	iha Rogardad F	Saturation	Present?	Yes	all acris	No	х	Depth (inches) ious inspections), if ava	_	Yes			
اانادتات	ioc ivacoided L	oua (sutall	ı guay e , monill	mig w	, a c 116	יי איוטנטנ	, piev	ious mopeulions), ii ave	anabic.				

		ter-S. Baltimo AEP	re-W. Mil	llersport (City/County:		Fa	airfield County wnship, Range:	Date:		n 2024 Data S25. T 16N. R		6
	igator(s):	L. Vine, E	.Holt	;	State: OH	_ Section	on, Tov	vnsnip, Range: Landform	Te	rrances	Local Relie		onvex
Slope Soil M		1-3 ne: Canal silt	Lat.		9.836914°	Long.		-82.590981°	Datum	NAD83	NWI Class:	:	N/A
C	limatic/hydro	ologic conditio	ons typica	I for time	e of year?	Y/N	Υ						
	Vegetat Vegetat		, Soil _, Soil	N	or H	ydrology ydrology	/ N	significantly disturbed naturally problematic					
Are No	ormal Circun	nstances Pres		Ye			IN	_naturally problematic					
SUMN	MARY OF FI	NDINGS drophytic Veg	etation P	Present?	Voc	No							
	1 iy	Hyd	ric Soil P	resent? `	Yes	_No _No	X	-	Is the	DP within a	a Wetland?		
		Wetland Hyd	drology P	resent?	Yes	No	X	-	Yes	No	Х		
VEGE	TATION												
Tree S	Stratum	Plot size:	30'		Absolute %		ninant	Indicator Statu	IS				
1.				_	Cover	Spe	ecies			Don	ninance Test	Worksh	eet
2.										Number of	dominant spe	ecies	0
3. 4.								_		that are OL Total numb	BL, FACW, or per of domina	rFAC: int	
5.				 						species ac	ross all strata	a:	1
Shruh	Stratum	Plot size:	15'	-	0	Total C	Cover				dominant spe		0.00
1.	Stratum	FIUL SIZE.	10	_						Prevalenc	e Index Worl		
2.										Total %	% cover of:		
3. 4.										OBL specie FACW spe		1 x 1 0 x 2	1
5.										FAC specie	es	0 x 3	0
Harh S	Stratum	Plot size:	5'	-	0	Total C	Cover			FACU specie		0 x 4 0 x 5	0
1.	Carex athe		<u>J</u>	_	Υ	1	100	OBL	1	Tota	al	1	1
2.								- -		Usaronby	Prevalend tic Vegetation		
3. 4.											id Test for Hy		
5.							-	-		Dom	inance Test i	s >50%	
6. 7.								_			ralence Index phological Ada		*
8.											ematic Hydroph		
\^/aadı	· \/ina Strati	Dlot cizo:	20'	-	0	Total C	Cover		<u></u>		ors of hydric s		
<u>vvooav</u> 1.	√ VINE Suau	um_Plot size:	30	_						,	ogy must be p		
2.											isturbed or pro		
	Remarks:				0	Total C	Jovei			Hyarop Yes	ohytic Vegeta No	ation Pre X	sent?
SOIL		file Deceri	-tion. /	ibr	- t- Joseph n	dad 6	- 4201	···· and the indicator or	mfirn				
	Depth	'rotile Descri	ı ptıon: (L Matrix	Jescribe	to aeptn n	eeaea ı	o aocu	ıment the indicator or Redox Featu		1 absence	of indicators	·-)	٦
	(inches)	Color		%	Color	%	Туре	e* Loc**	Text		Remarks	-	
						+				Resid	dential, no soi	l pit takeı	1
			+			<u> </u>	<u> </u>	<u> </u>					1
			_			-	T]
	*Турє	e: C=Concentr	 ration, D=	=Depletic	n, RM=Redi	uced Ma	atrix, CS	S=Coated Sand grains	**Locat	ion: PL=Po	re Lining, M=	Matrix	J
						Hydric	c Soil I	Indicators:			· 5,		
	Histosol (A Histic Epipe							Mineral (S1) Peat or Peat			ox Dark Surfa leted Dark Su		7)
	Black Histic	c (A3)` ´				Sandy	Gleyed	d Matrix (S4)		Redo	ox Depression	ns (F8)	<i>'</i>
	Hydrogen S Stratified La	Sulfide (A4)					Redox				ors for Problem st Prairie Red		
	2 cm Muck							Mineral (F1)			Manganese N		
	Depleted B	elow Dark Su	`	1)		Loamy	/ Gleye	d Matrix (F2)			Shallow Darl	k Surface) (F1́2)
Dostri		Surface (A12 (if observed)				Deplet	ed Mat	rix (F3)		Othe	r		
Kesui	Clive Layer		Depth ((Inches):				Hydric Soil Pro	esent?	Yes	No	Х	
	Remarks:	No soil pit						<u> </u>	_				
	OLOGY nd Hydrolo	gy Indicators	:										
		Pri		licators ((check all th			75-53			ondary Indica		
	Surface Water	ater (A1) r Table (A2)		-		r Staine itic Faun					oil Cracks (B6 Patterns (B10)		
	Saturation	(A3) `´		-	True	Aquatic	Plants	(B14)		Dry-Seaso	n Water Table		
	Water Mark			-				dor (C1)			urrows (C8)		···· (CO)
	Sediment L Drift Depos	Deposits (B2) sits (B3)		-				res on Living Roots ed Iron (C4)	-		Visible on Ae Stressed Pla		ery (C9)
	Algal Mat o	or Crust (B4)		_	Rece	nt Iron F	Reducti	on in Tilled Soil (C6)		Geomorph	ic Position (D		
	Iron Depos		rial Imaa	on/(D7) =		Muck Su				FAC-Neutr	al Test (D5)		
		Visible on Aeregetated Con-			Guag Other	ge or We r	iii Data	(D9)					
Field (ns: Surface V	Vater Pre	esent? `	Yes	No		Depth (inches)					
		Water Tal Saturation			Yes Yes	No No		Depth (inches) Depth (inches)	Hydro	loy Indicato Yes	ors Present? No	X	
		d Data (strear					s, prev	ious inspections), if ava	ailable:	163	110		
	dric indicat												

Site: Client		-S. Baltimor AEP	e-W. Millerspor	City/County:	Section		rfield County	Date:	27 M	arch 202 ec S25.	24 Data Po T 16N, R 19	int:4	
	tigator(s):	L. Vine, E. 1-3	.Holt	9.833067°	Long.		Landfo 82.591983°		errances NAD	Ló	cal Relief WI Class:	Conve N/A	
Soil N	làp Unit Name:	Canal silt I	loam, 0 to 2 per ns typical for tim	cent slopes	Y/N	Y	02.001000	Datum	I IVAD	00 141	W Olass	14/74	
(Vegetation	n N	, Soil	N or Hy	drology	N	significantly disturb						
	Vegetation ormal Circums	tances Pres		N or Hy 'es x	drology No	N	naturally problema	tic					
SUMI	MARY OF FINE Hydro		etation Present?	Yes X	No								
	-	Hydr	ric Soil Present? Irology Present?	Yes	No No	Χ		Is the Yes		nin a We	etland? X		
Rema		Totalia Tiya	rology i roconc.	103 X	140			103		,	<u> </u>		
	Stratum	Plot size:	30'	Absolute %	Domi	nant	Indicator S	tatue					
1.		1 101 3120.		Cover	Spec	cies	maioator C	idido		Domina	nce Test W	orksheet	
2.											ninant specie		1
4.											FACW, or FA of dominant		3
5.				0	Total Co	over			species Percen	s across it of dom	all strata: ninant specie	s	3.33
Shrub 1.	Stratum	Plot size:	15'		=						FACW, or FA	C:	3.33
2.										tal % co	ver of:		20
3. 4.									FACW	species		(2	30 30
5.				0	Total Co	over			FAC sp	pecies species	<u>10</u> 3		30 180
Herb 1.	Stratum Juncus effusi	Plot size:	5'	30	_ Y		OBL	1	UPL sp	ecies Total	100		0 270
2.	Solidago can	adensis		25	Y	/	FACU	4		1	Prevalence I		2.70
3. 4.	Schedonorus Dichantheliur			<u>20</u> 10	Y		FACU FACW	4 2			egetation Ir est for Hydro		
5. 6.	Apocynum ca Cyperus strig			10 5	N		FAC FACW	3 2	[Dominan	nce Test is >	50%	.,
7.	Оурстав вину	0000			- <u> </u>	•	TAOW		N	Morpholo	ogical Adapta	ations*	_
8.				100	Total Co	over					tic Hydrophytic of hydric soil	•	
<u>Wood</u>	ly Vine Stratum	Plot size:								drology r	must be pres	ent, unle	
2.							-			distur	bed or proble		
				0	Total Co	OVA			H _V	dronhyti	ic Venetatio	n Presen	+2
	Remarks:			0	Total Co	over					ic Vegetatio x No	n Presen	ıt?
SOIL	Pro						ment the indicator		``\	res 2	x No	n Preser	it?
			otion: (Describ Matrix %			docu	ment the indicator Redox Fe	eatures	`\	res of in	x No	n Presen	it?
	Depth (inches)	Color 7.5YR 4/2	Matrix %	color	eeded to	Туре	Redox Fe * Loc** M	eatures Tex SiL	n abser	res of in	x No	n Presen	nt?
	Pro Depth (inches)	Color	Matrix %	e to depth ne	eeded to	docu	Redox Fe	eatures Tex	n abser	res of in	x No	n Presen	nt?
	Depth (inches) 0-15 15-18	Color 7.5YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	% 5	Type C	Redox Fe	eatures Tex SiL SiCL	n abser	res in	x No adicators.) Remarks		nt?
	Depth (inches) 0-15 15-18	Color 7.5YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	eeded to % 5	Type C	Redox Fe	eatures Tex SiL SiCL	n abser	res in	x No		nt?
	Depth (inches) 0-15 15-18 *Type: 0	Color 7.5YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	% 5 iced Matr Hydric Sandy M	Type C rix, CS Soil II	Redox Fe * Loc** M M =Coated Sand graindicators: Mineral (S1)	eatures Tex SiL SiCL	n abser	res of in	x No Indicators.) Remarks Ining, M=Ma ark Surface	rix (F6)	nt?
	Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (.	Color 7.5YR 4/2 10YR 4/2 C=Concentra on (A2) A3)	Matrix	Color 10YR 4/6	seeded to % 5 Icced Matr Hydric Sandy 6 5 som Mu Sandy 0	Type C Crix, CS Soil II Mucky licky Po	Redox Fe Loc** M	eatures Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D	Remarks ining, M=Ma ark Surface I Dark Surface epressions ((F6) :e (F7) F8)	
	Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5)	Matrix	Color 10YR 4/6	seeded to % 5 ceed Matr Hydric Sandy N Sandy C Sandy C Sandy C Sandy C	Type C rix, CS Soil II Mucky P Gleyed Redox d Matri	Redox Fe	eatures Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic rairie Redox	(F6) :e (F7) F8) : Hydric Sc (A16)	bils
	Pro Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A	Color 7.5YR 4/2 10YR 4/2 C=Concentra on (A2) A3) lfide (A4) ers (A5)	Matrix % 100 95 ation, D=Depleti	Color 10YR 4/6	seeded to % 5 ceed Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippee Loamy I	Type C C Soil II Mucky Icky P Geleyed Redox Mucky Mucky Mucky	Redox Fe Loc** M	eatures Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas	(F6) be (F7) F8) E Hydric So (A16) ses (F12)	oils
SOIL	Production Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Bele Thick Dark So	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 c=Concentra on (A2) A3) ers (A5) 110) ow Dark Surfurface (A12)	Matrix % 100 95 attion, D=Depleti	Color 10YR 4/6	seeded to % 5 ceed Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippee Loamy I	Type C C Soil II Mucky Icky P Geleyed Redox H Matri Mucky Gleyed	Redox Fe Loc** M	eatures Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic rairie Redox	(F6) be (F7) F8) E Hydric So (A16) ses (F12)	oils
Restr	Production Depth (inches) 0-15 15-18 15-18 *Type: 0 Place of the production of the p	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 c=Concentra on (A2) A3) ers (A5) 110) ow Dark Surfurface (A12)	Matrix % 100 95 attion, D=Depleti	Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy M 5cm Mu Sandy F Sandy F Sarbec Loamy (Type C C Soil II Mucky Icky P Geleyed Redox H Matri Mucky Gleyed	Redox Fe Loc** M	Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas	(F6) be (F7) F8) E Hydric So (A16) ses (F12)	oils
Restr	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Bele Thick Dark Si ictive Layer (if	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed):	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy M 5cm Mu Sandy F Sandy F Sarbec Loamy (Type C C Soil II Mucky Icky P Geleyed Redox H Matri Mucky Gleyed	Redox Fe Loc** M	Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coron-Man Very Sha Other	mining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas allow Dark S	rrix (F6) Se (F7) F8) Hydric So (A16) Ses (F12) urface (F2)	oils
Restr	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (, Hydrogen Su Stratified Lay 2 cm Muck (/ Depleted Belothick Dark Si ictive Layer (if	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed):	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 ion, RM=Redu	seeded to % 5 ceed Matri Hydric Sandy N 5cm Mu Sandy C Sandy F Sandy C Sandy F Loamy (Deplete	Type C C rix, CS Soil II Mucky Icky Poleyed Redox d Matri Mucky Gleyed d Matri	Redox Fe Loc** M	Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha Other	ndicators.) Remarks Ining, M=Marark Surface I Dark Surface Problematicative Redox Iganese Masallow Dark S	rix (F6) Se (F7) F8) Hydric So (A16) Ses (F12) urface (F7)	oils
Restr	Production Depth (inches) 0-15 15-18 15-18 *Type: 0 Place of the production of the p	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) bw Dark Surfurface (A12) f observed): Indicators: Prine er (A1)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 on, RM=Redu	seeded to % 5 Inceed Mate Hydric Sandy N 5 cm Mu Sandy C Sandy F Strippec Loamy 0 Deplete at apply T Stained	Type C C rix, CS Soil II Mucky Gleyed Hucky Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Leave	Redox Fe Redox Fe Loc** M M Cocated Sand graindicators: Mineral (S1) Eat or Peat Matrix (S4) (S5) X (S6) Mineral (F1) Mineral (F2) Mix (F3) Hydric Soil Mes (B9)	Tex SiL SiCL	m abser ture tion: PL: findi	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man Very Sha Dther Yes Seconda e Soil Cr	ndicators.) Remarks Ining, M=Ma ark Surface I Dark Surface Problematic Ining Redox Iganese Mas Indicator	rix (F6) Se (F7) F8) Hydric So (A16) Ses (F12) urface (F7)	oils
Restr	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belothick Dark Si ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water T Saturation (A	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color 10YR 4/6 on, RM=Redu color co	seeded to % 5 Icced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy I Loamy I Loamy I Loamy I Loamy I T Strippee Loamy I L	Type C rix, CS Soil II Mucky Icky Pr Gleyed Redox d Matri Mucky Gleyed d Matri Leave (B13) Plants	Redox Fe Loc** M	Tex SiL SiCL	n abser ture tion: PL findi indi indi indi indi indi indi ind	Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man Very Sha Dther Yes Seconda e Soil Cr ge Patte ason W	ining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas allow Dark S No ary Indicato aracks (B6) arens (B10) ater Table (0	rrix (F6) Se (F7) F8) Se Hydric So (A16) Ses (F12) urface (F7)	oils
Restr	Production Depth (inches) 0-15 0-15 15-18	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color 10YR 4/6 ion, RM=Redu General the Water Aquat Aquat Hydro Oxidiz	seeded to % 5 ceed Matri Hydric Sandy N Sandy F San	Type C rix, CS Soil II Mucky Icky Po Gleyed Redox d Matri Mucky Gleyed d Matri Leave (B13) Plants ide Ocopher	Redox Fe Loc** M	Tex SiL SiCL	m abser ture tion: PL findi fi	Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man /ery Sha Other /es Seconda e Soil Cr ge Patte ason W h Burrov	ining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas allow Dark S No ary Indicato aracks (B6) arens (B10) ater Table (0	(F6) Se (F7) F8) Se (Hydric Sc (A16) Ses (F12) urface (F7) X	pils) 12)
Restr	Depth (inches) 0-15 15-18 *Type: (inches) 15-18 *Type: (inches) *Type: (inches) Histosol (A1) Histic Epiped Black Histic (inches) Stratified Layer (inches) Thick Dark Stratified Layer (inches) Remarks: RoLOGY Ind Hydrology Surface Wate High Water T Saturation (AA Water Marks Sediment De Drift Deposits	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10On, RM=Redu Water Aquat True Hydro Oxidiz Prese	seeded to % 5 Icced Matr Hydric Sandy N 5cm Mu Sandy F Strippec Loamy I Loamy I Loamy I Toplete Total a tapply Total a tap	Type C rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed d Matri Leave (B13) Plants ide Octopher educe	Redox Fe Loc** M	Present?	ture tion: PL-	=Pore Li =Pore Li Redox D Depleted Redox D Cators for	mining, M=Marks mining, M=Marks mining, M=Marks mining, M=Marks mark Surface mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)
Restr	Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (. Hydrogen Su Stratified Lay 2 cm Muck M Depleted Bela Thick Dark Si ictive Layer (if Remarks: ROLOGY und Hydrology Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra con (A2) A3) Iffide (A4) ers (A5) A10) bow Dark Surfurface (A12) f observed): Indicators: Printer (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5)	Matrix % 100 95 ation, D=Depleti Type: Depth (Inches) mary Indicators	color Color 10YR 4/6 10YR 4/6 Con, RM=Redu Water Aquat True / Hydro Oxidiz Prese Recer Thin M	seeded to % 5 Iced Mate Hydric Sandy N 5 cm Mu Sandy C Sandy F Strippec Loamy I Loamy I Loamy I Coult Country Loamy I Loa	Type C C Soil II Mucky Cleyed Redox Mucky Cleyed Mucky Cleyed Mucky Cleyed Mucky Cleyed Mucky Cleyed Cl	Redox Fe Loc** M	Present?	ture tion: PL: tion: PL: findi Comparison of the comparison of t	=Pore Li =Pore Li Redox D Depleted Redox D Cators for	mining, M=Ma mining, M=Ma mark Surface mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)
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Restr HYDF Wetla	Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Bele Thick Dark Si ictive Layer (if Remarks: ROLOGY Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Iron Deposits Inundation Vi	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed): Findicators: Prin er (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aerietated Conce: Surface W	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches) nary Indicators	color Color 10YR 4/6 10YR 4/6 On, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage	ceded to % 5 ced Matr Hydric Sandy N 5 m Mu 6 m Mu 7 m Mu 6 m Mu 7 m Mu 7 m Mu 8 m	Type C C Soil II Mucky Cleyed Redox Mucky Cleyed Mucky Cleyed Mucky Cleyed Mucky Cleyed Mucky Cleyed Cl	Redox Fe Loc** M	Present?	m abser ture tion: PL findi Current Surface Drainae Dry-Se Crayfis Saturae Stuntee Geomo FAC-N	Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha Dther Seconda e Soil Cr ge Soil Cr ge Streen do or Streen son Wish h Burrov tion Visil d or Streen reduction Visil	mining, M=Marks Ining, M=Mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)
Restr HYDF Wetla	Production Depth (inches) 0-15 15-18	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Printer (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conce : Surface W Water Tab Saturation	Matrix % 100 95 ation, D=Depleti face (A11) :Type: Depth (Inches) mary Indicators face Vater Present? Depent? Present?	color Color 10YR 4/6 10YR 4/6 On, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes X Yes X	seeded to % 5 Inceed Mate Hydric Sandy No Sandy F Stripped Loamy No Deplete Stained dic Fauna Aquatic Fagen Sulfiged Rhizon Sund No No No No	Type C C Trix, CS Soil II Mucky Gleyed d Matri Mucky Gleyed d Matri Mucky Gleyed d Matri C Leave (B13) Plants ide Oc pspher educe eduction face (II Data	Redox Fe Loc** M	Present? Present? Hydro	m abser ture tion: PL findi Surface Drainae Dry-Se Crayfis Saturae Stuntee Geomo FAC-N	=Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha Dther Yes Seconda e Soil Cr ge Patte gason Wa th Burrov tion Visil d or Stree prphic Po eutral Te cators F	mining, M=Ma mining, M=Ma mark Surface mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)

Site: Client	W. Lancaster	-S. Baltimor AEP			Section		irfield County nship, Range:	Date:	27 Mar Sed	c S25. T	16N, R	19\//	4A
Inves	tigator(s):	L. Vine, E.	.Holt	· <u></u>		11, 101.	Landform		rrances	Loc	al Relief	Co	nvex
Slope Soil M		1-3 Canal silt I	Lat. 39 loam, 0 to 2 perc	9.832183° cent slopes	Long.		-82.592208°	Datum	NAD83	NVV	'I Class:		N/A
00	Climatic/hydrolo	gic condition	ns typical for time	e of year?	Y/N	Y	The second of th						
	Vegetation Vegetation	n N N			drology drology		significantly disturbed naturally problematic						
	lormal Circums	tances Pres	_,	es x									
SUMI	MARY OF FIND Hydro	phytic Vege	etation Present?	Yes	No	Х		1					
	•	Hydr	ric Soil Present?	Yes	No	Χ	• •		DP within				
	V	Vetland Hyd	drology Present?	Yes	No	X		Yes	No	<u> X</u>			
VEGE	TATION			* 1.1-0/	·				•				
Tree	Stratum_	Plot size:	30'	Absolute % Cover	Domii Spec		Indicator Statu	s					
1.											ce Test \		eet
2. 3.					·						nant spe		0
3. 4.									that are (Total nur	OBL, F <i>F</i> mber of	ACW, or i dominan	FAC: t	
5.					÷ :-10:				species a	across a	all strata:		1
Shrub	Stratum	Plot size:	15'	0	Total Co	over					nant spec		0.00
1.							-		Prevaler	nce Índe	ex Works		
2. 3.									Tota OBL spe	l % cove cies		x 1	1
4.									FACW s	pecies	0	x 2	0
5.	-			0	Total Co	over.			FAC spe FACU sp		0	x 3 x 4	0
Herb	Stratum_	Plot size:	5'		-				UPL spe	cies		x 4 x 5	500
1.	Zea mays res	idue		100	Y	/	UPL	5		otal	101 revalence		501 4.96
2. 3.							- <u> </u>		Hydroph	ytic Ve	getation	Indicat	ors:
4.									Ra	apid Tes	t for Hyd	rophytic	
5. 6.											e Test is e Index is		
7.									Mo	orpholog	gical Ada	ptations	
8.	-			100	Total Co	over					Hydrophy hydric so	•	
	dy Vine Stratum	_ Plot size:	30'		10.0.	J V C.					ust be pr		
1. 2.									,	0,	ed or pro		
۷.													
				0	Total Co	over					: Vegetat		sent?
	Remarks:	I		0	Total Co	over			Hydr Ye		Vegetat No	ion Pre X	sent?
SOIL	Pro			-			ment the indicator or		Ye	s	No	Х	sent?
	Pro Depth	İ	Matrix	e to depth ne	eded to	docu	Redox Featu	res	Ye	e of inc	No licators.)	Х	sent?
	Pro		Matrix %	-		docu			Yen absenc	e of inc	No	Х	esent?
	Pro Depth (inches)	Color	Matrix %	e to depth ne	eded to	docu	Redox Featu	res Text	Yen absenc	e of inc	No licators.)	Х	esent?
	Pro Depth (inches)	Color	Matrix %	e to depth ne	eded to	docu	Redox Featu	res Text	Yen absenc	e of inc	No licators.)	Х	sent?
	Depth (inches) 0-18	Color 10YR 4/2	Matrix % 100	e to depth ne	eeded to	Туре	Redox Featu * Loc**	res Text Si	yen absence	e of ind	No licators.) Remarks	X)	sent?
	Depth (inches) 0-18	Color 10YR 4/2	Matrix % 100	e to depth ne	% ced Matr	Type	Redox Featu	res Text Si	Yen absenc	e of ind	No licators.) Remarks	X)	sent?
	Depth (inches) 0-18 *Type: (Color 10YR 4/2	Matrix % 100	e to depth ne	eeded to % ced Matr Hydric Sandy M	Type Trix, CS Soil II	Redox Featu * Loc** =-Coated Sand grains ndicators: Mineral (S1)	res Text Si	n absence	e of inc	No licators.) Remarks ing, M=M	X Matrix e (F6)	
	Depth (inches) 0-18	Color 10YR 4/2 C=Concentra	Matrix % 100	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy O	Type Tix, CS Soil II Mucky Jicky Po	Redox Feature Re	res Text Si	ure L ion: PL=F	e of income Report Line Port Line Po	No licators.) Remarks ing, M=M	X Matrix e (F6) face (F7	
	Pro Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4)	Matrix % 100	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F	Type rix, CS Soil II Mucky Po Gleyed Redox	Redox Featu * Loc** =Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5)	res Text Si	ion: PL=F	e of income Report Line edox Da epleted I edox De etox for for for for for for for for for for	No licators.) Remarks ing, M=M rk Surfact Dark Surfact Dark Surfact Pressions Problema	Alatrix e (F6) face (F7 s (F8) titic Hydri)
	Pro Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Layo	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5)	Matrix % 100	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C	Type rix, CS Soil II Mucky Po Gleyed Redox d Matri	Redox Featu * Loc** =-Coated Sand grains indicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) x (S6)	res Text Si	ion: PL=F	e of income R Pore Line edox Da epleted I edox De tors for past Pra	No licators.) Remarks ing, M=M rk Surfact Dark Surfact Dark Surfact Pressions Problema irie Redo	X latrix e (F6) face (F7 s (F8) titc Hydri x (A16)	r)
	*Type: (Histosol (A1) Histic Epipedo Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur	Matrix % 100 ation, D=Depletion	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si	ion: PL=F	Pore Linedox Da epleted I edox De tedox Bernardors for the tedox Bernardors for the tedox Bernardors for the tedox Bernardors France and the tedox Bernardors France and the tedox Bernardors for the tedox Bernardors fo	No licators.) Remarks ing, M=M rk Surfact Dark Surfact Dark Surfact Pressions Problema	// Attrix e (F6) face (F7 s (F8) ix (A16) asses (F	r) ic Soils =12)
SOIL	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul Stratified Layo 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Depletic	e to depth ne	ced Matr Hydric Sandy N Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si	ion: PL=F	e of ind R Pore Lin edox Da epleted I edox De ators for oast Pra an-Mang	No licators.) Remarks ling, M=M rk Surfactor S	// Attrix e (F6) face (F7 s (F8) ix (A16) asses (F	r) ic Soils =12)
SOIL	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Depletic	color Color Color Color RM=Redu	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si **Locat	ion: PL=F	e of inc	No licators.) Remarks ling, M=M rk Surfactor S	// Attrix e (F6) face (F7 s (F8) ix (A16) asses (F	r) ic Soils =12)
Restr	Pro Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sc ictive Layer (if	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Depletion face (A11) : Type:	color Color Color Color RM=Redu	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si **Locat	ion: PL=F	e of inc	ing, M=M rk Surfac Dark Surfac Pressions Problema irie Redo lanese M low Dark	Matrix e (F6) face (F7 s (F8) titic Hydri vx (A16) asses (F Surface	r) ic Soils =12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) a10) ow Dark Sur urface (A12) observed):	Matrix % 100 ation, D=Depletion face (A11) The control of the	color Color Color Color Color	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N Depleted	Type Type rix, CS Soil II Mucky Gleyed A Matri Mucky Gleyed Mucky Gleyed Mucky Mucky Mucky Mucky Mucky Mucky	Redox Feature Re	res Text Si **Locat	ion: PL=F Re De Re Indica Iro Ve Ot	Pore Line edox Da epleted I edox De ators for another Shall her	ing, M=M rk Surfac Dark Surfac Dark Surfac Problema irie Redo janese M low Dark	Matrix Pe (F6) face (F7s (F8) tic Hydri x (A16) asses (f Surface	r) ic Soils =12)
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Restr	*Type: (Histosol (A1) Histic Epipedo Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark So ictive Layer (if Remarks:	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) a10) ow Dark Sur urface (A12) observed) Indicators: Printer (A1)	Matrix % 100 ation, D=Depletion face (A11) The control of the	c to depth ne Color Color On, RM=Redu (check all th Water	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N Depleted	Type Type Tix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed d Matri	Redox Feature Re	res Text Si **Locat	ion: PL=F Re De Re Indica Iro Ve Ot	e of ind R Pore Lin edox Da epleted I edox De stors for oast Pra on-Mang ery Shall her es	ing, M=No Remarks ing, M=No rk Surfac Dark Surfac Dark Surfac Problema irie Redo panese M low Dark No ry Indicar cks (B6)	Matrix Pe (F6) face (F7s (F8) tic Hydri x (A16) asses (f Surface	r) ic Soils =12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A) Depleted Belo Thick Dark Scrictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Tasaturation (A)	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3)	Matrix % 100 ation, D=Depletion face (A11) The control of the	cto depth ne	ced Matr Hydric Sandy N Sandy C Sandy	Type rix, CS Soil III Mucky Po Gleyed Redox Mucky Gleyed Matri Mucky Mu	Redox Feature Re	res Text Si **Locat	re la la la la la la la la la la la la la	Pore Line edox Da expleted I extens for past Pra expleted Secondar Soil Crase Pattern explete Soil Crase Pattern explored explete Soil Crase Pattern explored explore	No licators.) Remarks ling, M=M rk Surface Dark Surface	Matrix se (F6) face (F7 s (F8) stic Hydri x (A16) asses (F Surface	r) ic Soils =12)
Restr	*Type: (Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A1) Histosol (A1) Histic Epipedo Black Histic (A1) Hydrogen Sul Stratified Layer 2 cm Muck (A2) Depleted Belo Thick Dark Suictive Layer (ifferenarks: ROLOGY And Hydrology Surface Water High Water Tasaturation (A2) Water Marks	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1)	Matrix % 100 ation, D=Depletion face (A11) The control of the	check all the Water Aquati True A Hydro	ced Matr Hydric Sandy N Sandy N Sandy C Sandy N Strippec Loamy N Loamy O Depleter at apply Stained ic Fauna Aquatic F gen Sulfi	Type Tix, CS Soil II Mucky Icky Po Gleyed Mucky Id Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed I Matri J Leave I (B13) Plants Ide Oo	Redox Feature Re	res Text Si **Locat	ion: PL=F ReDe ReIndica Indica Iro Ve Ot Ye Surface S Drainage Dry-Seas Crayfish	Pore Lin edox Da epleted I edox De ators for bast Pra an-Mang ery Shall her es econdar soil Cra e Pattern son War Burrows	ing, M=M rk Surfac Dark Surfac No Ler Table Surface Surface Dark Surface	Matrix e (F6) face (F7) s (F8) titic Hydrii x (A16) asses (F Surface X	(F12)
Restr	*Type: 0 Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A) Hydrogen Sul Stratified Layo 2 cm Muck (A) Depleted Belo Thick Dark Suictive Layer (if Remarks: ROLOGY Surface Wate High Water To Saturation (A) Water Marks Sediment Dep Drift Deposits	Color 10YR 4/2 C=Concentra C=	Matrix % 100 ation, D=Depletion face (A11) The control of the	check all the Water Aquati True A	ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Stripper Loamy C Depleted at apply Stained ic Fauna Aquatic P gen Sulfit ged Rhizc nce of Ro	Type rix, CS Soil II Mucky Icky Po Gleyed Redox d Matr Mucky Gleyed d Matr Leave (B13) Plants ide Ocospher educe	Redox Feature	res Text Si **Locat	re landica con landica sturted of Sturface sturted of S	e of ind R Pore Lin edox Da epleted I edox De ators for oast Pra an-Mang ery Shall her es econdar Soil Cra e Patterr son War Burrow on Visibl or Stres	ing, M=M rk Surface Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A) Depleted Bela Thick Dark Surictive Layer (iff Remarks: ROLOGY and Hydrology Surface Wate High Water To Saturation (A) Water Marks Sediment Deposits Algal Mat or 0	Color 10YR 4/2 C=Concentra C=	Matrix % 100 ation, D=Depletion face (A11) The control of the	check all the Water Aquati True A Hydroo Oxidiz Prese Recer	ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Stripped Loamy (Depleted Team (Depleted Team (Depleted Team (Depleted	Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox d Matri Mucky Gleyed I (B13) Plants Ide Ocospher educe eductice	Redox Feature	res Text Si **Locat	re lure lure lure lure lure lure lure lu	e of inc R Pore Lin edox Da epleted I edox De entors for on-Mang ery Shall her es econdar Soil Cra e Patterr son Wat Burrows on Visibl or Stress on Visibl or Stress on Visibl	ing, M=M rk Surfact Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	*Type: 0	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ob Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aeri	Matrix % 100 ation, D=Depletion face (A11) : Type: Depth (Inches): mary Indicators	color Color Color Color Color Check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin N Guage	ced Matr Hydric Sandy N Sandy N Sandy O Sandy N Sandy O Sandy N Stripped Loamy N Loamy O Depleted The Fauna Aquatic P gen Sulfited Rhizc nce of Rint Iron Re Muck Sur e or Well	Type Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox Id Matri Mucky Gleyed Id Matri Leave Id (B13) Plants Ide October Ide Oc	Redox Feature	res Text Si **Locat	re landica con landica sturted of Sturface sturted of S	e of inc R Pore Lin edox Da epleted I edox De entors for on-Mang ery Shall her es econdar Soil Cra e Patterr son Wat Burrows on Visibl or Stress on Visibl or Stress on Visibl	ing, M=M rk Surfact Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	*Type: (Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Bele Thick Dark Surictive Layer (iff Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ov Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Concentration	Matrix % 100 ation, D=Depletic face (A11) : Type: Depth (Inches): mary Indicators	check all the Water Aquati True A Hydro Oxidiz Preser Recer Thin M Guage Other	ced Matr Hydric Sandy M Sandy M Sandy G Sandy M Sandy G Strippe Loamy M Loamy	Type Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox Id Matri Mucky Gleyed Id Matri Leave Id (B13) Plants Ide October Ide Oc	Redox Feature	res Text Si **Locat	re lure lure lure lure lure lure lure lu	e of inc R Pore Lin edox Da epleted I edox De entors for on-Mang ery Shall her es econdar Soil Cra e Patterr son Wat Burrows on Visibl or Stress on Visibl or Stress on Visibl	ing, M=M rk Surfact Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	*Type: 0	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ov Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conce Surface W	Matrix % 100 ation, D=Depletic face (A11) : Type: Depth (Inches): mary Indicators	color Color Color Color Color Check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin N Guage	ced Matr Hydric Sandy N Sandy N Sandy O Sandy N Sandy O Sandy N Stripped Loamy N Loamy O Depleted The Fauna Aquatic P gen Sulfited Rhizc nce of Rint Iron Re Muck Sur e or Well	Type Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox Id Matri Mucky Gleyed Id Matri Leave Id (B13) Plants Ide October Ide Oc	Redox Feature	res Text Si **Locat	re lion: PL=F Re De Re Indica Co Ot Ot Ye Surface Surface Surface Surface Stunted Geomorp FAC-Neu	Pore Lin Pore Lin Redox Da Repleted I Redox Da ing, M=M rk Surface Dark Surface Dark Surface Problema irie Redo anese M low Dark No ry Indicar cks (B6) se (B10) se (B10) se (C8) le on Aeri sed Plan sition (D2 st (D5)	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)	
Restr	*Type: 0 Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (Anderty Community Comm	Color 10YR 4/2 C=Concentra C=	Matrix % 100 ation, D=Depletic face (A11) Type: Depth (Inches): mary Indicators fal Imagery (B7) ave Surface Vater Present? Present?	check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes Yes	ceded to % ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy (Deplete at apply Stained ic Fauna Aquatic P ggen Sulfi ited Rhizc nce of Re It Iron Re Muck Sur e or Well No No No	Type rix, CS Soil II Mucky Icky Po Gleyed Redox d Matri Mucky Gleyed I (B13) Plants I ide Octopher educe eduction face (II Data	Redox Feature	**Locat	re lure lure lure lure lure lure lure lu	e of ind R Pore Lin R Pore Lin R R Pore Lin R R R R R R R R R R R R R R R R R R	ing, M=M rk Surface Dark Surface Dark Surface Problema irie Redo anese M low Dark No ry Indicar cks (B6) se (B10) se (B10) se (C8) le on Aeri sed Plan sition (D2 st (D5)	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)

		ster-S. Baltimo AEP	re-W. N		t City/0	County:			Fai	irfield Co		Date:			4 Data P T 16N. R 1		3
	igator(s):	L. Vine, E	:.Holt_		_				I OW	nship, Ra	Landform	Floo	od Plains	Loc	cal Relief	C	onvex
Slope Soil M		me: Aetna silt	Lat.		39.8309		Lon	g.		-82.59)2558°	Datum	NAD83	NV	VI Class:		N/A
C	limatic/hydi	rologic condition	ons typic	cal for tim	ne of ye	ear?	Y/N		Υ								
	Vegeta Vegeta		, Soil _, Soil		N N		ydrolog ydrolog				ntly disturbed problematic						
Are No	ormal Circu	ımstances Pres			'es	X				11000,	p. 00.0						
SUMIN	MARY OF F	ydrophytic Veg	etation	Present?	Yes	Х	No					I					
	-	Hyd	ric Soil	Present?	Yes		No	_	Х	:			DP within				
		Wetland Hy	rology	Present	Yes	Х	No					Yes	No	<u> </u>			
VEGE	TATION				Abe	olute %	Dr	omina	ant					-			
Tree S	Stratum	Plot size:	30'			over		omina pecie		I	Indicator Statu	IS					
1.				_											nce Test V		eet
2. 3.							=						that are (OBL, F	inant spec ACW, or F	AC:	5
4.													Total nur	nber of	f dominant	,	7
5.						0	Total	Cov	er						all strata: inant spec	es	71 /2
	Stratum	Plot size:	15'		-		= * -						that are 0	OBL, F	ACW, or F	AC:	71.43
1. 2.													Tota	l % cov	lex Works ⁄er of:	neet	
3.													OBL spe	cies	1	x 1	1 170
4. 5.													FACW spe	cies		x 2 x 3	170 0
		Dist size:	E1	_		0	Total	Cov	er				FACU sp	ecies	15	x 4	60
Herb S		Plot size: a alternifolia	_ 5			25		Υ			FACW		UPL spe	cies otal	101	x 5	0 231
2.		canadensis		<u> </u>		20		Y			FACW	2			Prevalence		2.29
3. 4.	Urtica dioi Thalictrum	ıca n dasycarpum				20 10		N			FACW FACW	2			egetation st for Hydr		
5.	Conium m	naculatum		_		10		N			FACW	2	Do	minan	ce Test is:	>50%	,
6. 7.	Allium can	orus arundinace nadense) US	_		10 5		N N			FACU FACU	4			ce Index is gical Adap		,*
8.				<u> </u>			T-4-1	2			17.00		Pro	blemati	c Hydrophyt	ic Vege	tation*
Wood	v Vine Stra	tum Plot size:	30'			100	_ I otai	Cov	er						f hydric so		
1.				<u> </u>						-			,	0,	nust be pre ed or prob		
2.						0	Total	Cov	er_						c Vegetati		
SOIL	Remarks:												Ye	s X	No		
SUIL		Profile Descri			e to d	epth no	eeded	to d	ocur	ment the			absenc	e of in	dicators.)		
	Depth (inches		Matrix	%		Color	%		- Fyne'	* Loc**	Redox Featu	ires Text	hire		Remarks		-
	0-18	10YR 3/2	2	100		0.01		#	75~			Si		-	1011100		_
			+		+		+	-									-
			1					#			-						<u> </u>
	*Typ	e: C=Concent	 ration, Γ)=Depleti	on. RI	M=Redu	ıced N	/latrix	. CS	=Coated	Sand grains	**Locat	ion: PL=F	Pore Lir	ning, M=M	atrix	_
	- 1		<u></u>		<u>,</u>		Hydi	ric S	oil Ir	ndicators	s:				<u>U</u>		
	Histosol (A Histic Epip	A1) pedon (A2)								Mineral (eat or Pe					ark Surface Dark Surfa		7)
	Black Hist	tic (A3) ´					Sand	dy Gle	eyed	Matrix (S			Re	dox De	epressions	(F8)	,
		Sulfide (A4) Layers (A5)					Sand Strip			(S5) x (S6)					Problematairie Redox		
	2 cm Mucl	k (A10)` ´	11				Loan	ny Μι	ucky	Mineral			Iro	n-Man	ganese Ma	isses (F12)
	_	Below Dark Su k Surface (A12	,	(11)						d Matrix (ix (F3)	F2)			ry Sha her	llow Dark S	Surface) (F12)
Restri		r (if observed): Type:					J.C.	1710			10				.,	
	Remarks:		Deptn	n (Inches)	<u>: </u>					Н	lydric Soil Pre	esent?	Ye	S	No	Х	
HYDR	OLOGY	!:aataw															
Wetia	na Hyaroic	ogy Indicators Pri		ndicators	(cher	ck all th	at ap	ply)				l	Se	conda	ry Indicat	ors	
	Surface W	/ater (A1)				Water	r Stain	ned L		es (B9)			Surface :	Soil Cra	acks (B6)	-	
	Saturation					True A		ic Plà	ants ((B14)				son Wa	ater Table	(C2)	
	Water Mai	rks (B1)				Hydro	ogėn S	Sulfide	e Od	lor (Ć1)	to = Dooto		Crayfish	Burrow	/s (C8)	` ,	· · · · · (CO)
	Sediment Drift Depo	Deposits (B2) sits (B3)								es on Liv d Iron (C	ving Roots (4)				le on Aeria ssed Plant		ery (C9)
	Algal Mat	or Crust (B4)				Recer	nt Iron	Red	luctio	on in Tille	ed Soil (C6)	Х	Geomorp	ohic Po	sition (D2)		
	Iron Depos Inundation	sits (B5) n Visible on Ae	rial Ima	gery (B7)			Muck S e or W					Х	FAC-Neu	utrai ie	st (D5)		
- :	Sparsely \	Vegetated Con	cave Su	urface		Other	•			` ′	('\)						
Field	Observatio	ns: Surface V Water Ta			Yes Yes		No No		X X		(inches) (inches)	Hvdro	loy Indica	ators P	resent?		
Dagori	" - Depord	Saturation	n Presei	nt?	Yes	-II cori	No	'-o r	Х	Depth .	(inches)	_			No		
Descri		ed Data (strear	n guage	3, monito	ring w	eii, aeria	ai pnoi	ios, p	orevio	ous inspe	ections), it ava	illable:					

Client:	W. Lancast	er-S. Baitimore AEP			Section	n Tow	irfield County nship, Range:	_Date:			16N, R 19	nt: W	2
Investi	igator(s):	L. Vine, E.H	lolt			11, 10	Landform		rrances	Loca	l Relief	Conve	
Slope Soil M		e: Canal silt lo		9.829667° cent slopes	_Long.		-82.592922°	Datum	NAD83	_ NWI	Class:	N/A	
C	limatic/hydro	logic conditions	s typical for time	e of year?	Y/N	Y							
	Vegetati Vegetati			N or Hy N or Hy	drology drology	N N	significantly disturbed naturally problematic						
	ormal Circum	nstances Presei		es x			Haturany problemate						
SUMN	MARY OF FIN	NDINGS drophytic Vegeta	ation Present?	Voc	No			1					
	тус	Hydric	Soil Present?	Yes	_No	X X	-	Is the	DP within	a Wetla	and?		
			ology Present?		No	X	•	Yes	No	Χ			
VEGE	TATION												
	Stratum	Plot size: 3	30,	Absolute %	Domi		Indicator Statu	Q					
	Juanu	1 IUI 3120		Cover	Spec	cies	maioator otata	`	Dor	-inanc	e Test Wo	-kahaat	
1. 2.											ant specie		
3.									that are Ol	BL, FA	CW, or FA		1
4. 5.									Total numl				6
ວ.	-			0	Total Co	over			species ac Percent of		ıı strata: ant species	s —	0.07
	Stratum	Plot size: _	15'	-	_ 10.0	0.0.			that are Ol	BL, FA	CW, or FA	C:	6.67
1. 2.							-			e Inde % cove	x Workshe	eet	
2. 3.									OBL speci		1 x	1 —	1
4.					-				FACW spe	ecies	10 x	2	20
5.				0	Total Co				FAC speci FACU spe		0 x		0 40
Herb S	Stratum	Plot size:	5'		_ I Olai Ol	ovei			UPL speci		10_ x		275
1.	Zea mays	_		30	Y		UPL	5	Tota	al	76		336
2.	Brassica raj			15 10	Y	<u>/</u>	UPL UPL	5	· I. dronby		evalence Ir getation In		4.42
3. 4.	Packera gla			10	<u>'</u>	<u>'</u>	FACW	5 2			for Hydrop		
5.	Allium cana	dense		5	N	•	FACU	4	Don	ninance	e Test is >5	50%	· .
6. 7.	Stellaria me	edia		5	N	1	FACU	4			lndex is < cal Adapta		
7. 8.											cai Adapta Hydrophytic		n*
				75	Total Co	over					hydric soil a	•	
Woods 1.	y Vine Stratu	ım Plot size: 🤇	30'						hydrol	ogy mu	ist be prese	ent, unle	
2.					- <u> </u>		·				d or proble		
	D 2 m 2 m/c 0 :			0	Total Co	over					Vegetatio		nt?
SOIL	Remarks:								Yes		No	Χ	
	Ь												
				e to depth ne	eded to	docu	ment the indicator or				cators.)		
	Depth	M	1atrix 1	-			Redox Featu	ires	absence	of indi	,		
				e to depth ne	eeded to				absence ure	of indi	emarks		
	Depth (inches)	Color	fatrix %	-			Redox Featu	ires Text	absence ure	of indi	,		
	Depth (inches)	Color	fatrix %	-			Redox Featu	ires Text	absence ure	of indi	,		
	Depth (inches) 0-18	Color 10YR 4/3	Matrix % 100	Color	%	Туре	Redox Featu	res Text Si	ure L	of indi	emarks		
	Depth (inches) 0-18	Color 10YR 4/3	Matrix % 100	Color	% ced Mati	Type	Redox Featu * Loc** =Coated Sand grains	res Text Si	ure L	of indi	,	rix	
	Depth (inches) 0-18	Color 10YR 4/3 : C=Concentrat	Matrix % 100	Color	% ced Mati	Type	Redox Featu * Loc** =-Coated Sand grains indicators:	res Text Si	ure L	of indi	emarks		
	Depth (inches) 0-18 *Type Histosol (A1 Histic Epipe	Color 10YR 4/3 : C=Concentrat	Matrix % 100	Color	ced Mate Hydric Sandy M	Type rix, CS Soil I	Redox Featu * Loc** =-Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Text Si	ion: PL=Pc	of indi	emarks ng, M=Mati k Surface (F6) e (F7)	
	Depth (inches) 0-18 *Type Histosol (A1 Histic Epipe Black Histic	Color 10YR 4/3 : C=Concentrat I) edon (A2)	Matrix % 100	Color	% ced Mate Hydric Sandy Modern Muccond	rix, CS Soil I Mucky ucky P Gleyec	Redox Feature Re	res Text Si	i absence ure L ion: PL=Pc Red Dep Red	of indi Re ore Linin ox Darl leted D ox Dep	emarks ng, M=Mati k Surface (lark Surface)	F6) e (F7) ⁻ 8)	-110
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S	Color 10YR 4/3 : C=Concentrat I) edon (A2) : (A3) sulfide (A4)	Matrix % 100	Color	% ced Mate Hydric Sandy N 5cm Mu Sandy G Sandy F	rix, CS Soil I Mucky Icky P Gleyec Redox	Redox Feature Re	res Text Si	i absence ure L ion: PL=Pc Red Dep Red Indicato	of indi Re ore Linia ox Dari leted Dox Depors for F	emarks ng, M=Mati k Surface (F6) e (F7) ⁻ 8) Hydric S	oils
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	Color 10YR 4/3 : C=Concentrat I) cdon (A2) : (A3) sulfide (A4) sayers (A5) (A10)	Matrix % 100	Color	ced Mati Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy	rix, CS Soil II Mucky Icky P Gleyec Redox d Matri Mucky	Redox Feature Re	res Text Si	n absence ure L ion: PL=Po Red Dep Red Indicate Coa Iron-	of indi Re ore Linin ox Darl leted D ox Dep ox Sfor F st Prain -Manga	emarks ng, M=Mati k Surface (park Surfac problematic rie Redox (anese Mass	F6) e (F7) F8) Hydric S (A16) ses (F12)
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be	Color 10YR 4/3 : C=Concentrat I) cdon (A2) (A3) (A40) elow Dark Surfa	Matrix % 100	Color	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	res Text Si	n absence ure ion: PL=Po Red Dep Red Indicate Coa Iron- Very	of indi Re ore Linin ox Darl leted D ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (park Surface) ressions (problematic	F6) e (F7) F8) Hydric S (A16) ses (F12)
Restri	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 : C=Concentrat (I) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12)	Matrix % 100 tion, D=Depletion	Color	ced Mati Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	res Text Si	n absence ure L ion: PL=Po Red Dep Red Indicate Coa Iron-	of indi Re ore Linin ox Darl leted D ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (park Surfac problematic rie Redox (anese Mass	F6) e (F7) F8) Hydric S (A16) ses (F12)
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 : C=Concentrat (A) : C=Concentrat (A) : (A3) : (A3) : (A4) : (A4) : (A7) : (A10) : (A7) : (A10) :	Matrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches):	Color on, RM=Redu	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	Text Si **Locat	n absence ure ion: PL=Po Red Dep Red Indicate Coa Iron- Very	of indi Re ore Linin ox Darl leted D ox Dep ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (park Surfac problematic rie Redox (anese Mass	F6) e (F7) F8) Hydric S (A16) ses (F12)
ı	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks:	Color 10YR 4/3 : C=Concentrat (A) : C=Concentrat (A) : (A3) : (A3) : (A4) : (A4) : (A7) : (A10) : (A7) : (A10) :	Matrix % 100 tion, D=Depletion ace (A11) Type:	Color on, RM=Redu	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	Text Si **Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe	of indi Re ore Linin ox Darl leted D ox Dep ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (lark Surface ressions (F roblematic rie Redox (anese Mass bw Dark Su	F6) e (F7) F8) Hydric So A16) ses (F12 irface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY	Color 10YR 4/3 : C=Concentrat I) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit ta	Matrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches):	Color on, RM=Redu	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	Text Si **Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe	of indi Re ore Linin ox Darl leted D ox Dep ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (lark Surface ressions (F roblematic rie Redox (anese Mass bw Dark Su	F6) e (F7) F8) Hydric So A16) ses (F12 irface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog	Color 10YR 4/3 10YR 4	Matrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches):	Color on, RM=Redu al area (check all th	ced Mate Hydric Sandy F Sandy F Stripper Loamy C Loamy C Deplete	rix, CS Soil I Mucky P Gleyec Redox d Matri Mucky Gleyec d Matri	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes	of indi Re ore Linin ox Darl leted D ox Dep ox Frain -Manga / Shalld er	emarks ng, M=Mati k Surface (lark Surface ressions (F roblematic rie Redox (anese Mass ow Dark Su No	F6) e (F7) F8) Hydric Sc A16) ses (F12 rface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa	Color 10YR 4/3 : C=Concentrat (1) cdon (A2) c (A3) culfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to gy Indicators: Primater (A1)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu al area (check all th Water	ced Mate Hydric Sandy N Sandy C Sandy F Strippee Loamy D Loamy Deplete	Type rix, CS Soil II Mucky P Gleyec Redox d Matri Mucky Gleyec d Matri	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface So	of indi Re ore Linin ox Darl leted Dox Dep ox Frain -Manga / Shallo er ondary oil Crac	mg, M=Mati k Surface (lark Surface) ressions (F Problematic rie Redox (lanese Mass ow Dark Su No	F6) e (F7) F8) Hydric Sc A16) ses (F12 rface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog	Color 10YR 4/3 : C=Concentrat (1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit to primater (A1) Table (A2)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu al area (check all th Water Aquat	ced Mate Hydric Sandy F Sandy F Stripper Loamy C Loamy C Deplete	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri Leave (B13)	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F	of indi Re ore Linii ox Darl leted D ox Dep ox Fraii -Manga / Shall er ondar oil Crac atterns	mg, M=Mati k Surface (lark Surface) ressions (F Problematic rie Redox (lanese Mass ow Dark Su No	F6) e (F7) =8) Hydric Si A16) ses (F12 urface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark	Color 10YR 4/3 : C=Concentrat i) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to gy Indicators: Prima atter (A1) Table (A2) A3) is (B1)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	check all the Water Aquat True A	ced Mati Hydric Sandy N Sandy F Stripped Loamy Loamy Deplete	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Mu	Redox Feature Re	**Locat	rabsence ure ure lion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B	of indi Re ore Linin ox Darl leted D ox Dep ors for F st Prain -Manga / Shallo er ondary oil Crac on Wate urrows	emarks emarks	F6) e (F7) F8) Hydric S6 A16) ses (F12 urface (F X) 12)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wae High Water Saturation (Water Mark Sediment D	Color 10YR 4/3 : C=Concentrat i) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to gy Indicators: Prima ater (A1) Table (A2) A3) s (B1) eposits (B2)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu on, RM=Redu Check all th Water Aquat True A Hydro Oxidiz	ced Mati Hydric Sandy N Sandy O Sandy O Sandy O Stripped Loamy Deplete	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Motor Mucky Gleyed Motor Mucky Gleyed Motor Mucky Muck	Redox Feature Redox Feature Redox Feature Recoated Sand grains Indicators: Mineral (S1) Reat or Peat Indicators: Mineral (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9) (B14) dor (C1) res on Living Roots	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation	of indi Re ore Linin ox Darl leted D ox Dep ors for F sala Analog ondary oil Crac ontern ourrows Visible	mg, M=Mati k Surface (lark Surface) ressions (Forblematic rie Redox (anese Mass bw Dark Sur No No VIndicator cks (B6) s (B10) er Table (C (C8)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark	Color 10YR 4/3 10YR 4/3	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu al area (check all th	ced Mate Hydric Sandy F Sandy F Stripper Loamy C Loamy C Loamy C T Stained ic Fauna Aquatic F gen Sulf ted Rhizz nce of R	rix, CS Soil II Mucky P Gleyec Redox d Matri Mucky Gleyec d Matri I Leave a (B13) Plants ide Ocospheie	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation	of indi Re ore Linin ox Darl leted Dox Depors for F st Prain -Manga y Shallo er on Wate urrows Visible Stress	mg, M=Mati k Surface (lark Surface) foroblematic rice Redox (lanese Mass ow Dark Surface No No No VIndicator cks (B6) s (B10) er Table (C (C8) e on Aerial	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat of	Color 10YR 4/3 : C=Concentrat (1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit to ay Indicators: Primater (A1) Table (A2) A3) s (B1) eposits (B2) its (B3) r Crust (B4) ts (B5)	Adatrix % 100 ace (A11) Type: Depth (Inches): aken, residentia	Color On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Press Recer Thin M	ced Matt Hydric Sandy N Sandy F Stripped Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ged Rhizo nnce of R t Iron Re Muck Sur	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (Redox Feature	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or	of indi Re ore Linin ox Dari leted Dox Depors for F st Prain -Manga / Shallo er ondary oil Crac atterns on Wate urrows Visible Stress ic Posi	mg, M=Mate k Surface (lark Surface) ressions (Forblematic rie Redox (lanese Mass ow Dark Su No / Indicator cks (B6) s (B10) er Table (C (C8) e on Aerial led Plants (ition (D2)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark i ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat of Iron Deposi Inundation	Color 10YR 4/3 : C=Concentrat : C=Concentrat : C=Concentrat : C=Concentrat : C(A3) : c(A3) : culfide (A4) : ayers (A5) (A10) : clow Dark Surfa : Surface (A12) : (if observed): -	ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu color col	ced Mate Hydric Sandy M Sandy M Sandy F Stripped Loamy M Loamy Deplete at apply Stained Aquatic F gen Sulf ged Rhizz nnce of R t Iron R Muck Sur e or Well	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (Redox Feature	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	of indi Re ore Linin ox Dari leted Dox Depors for F st Prain -Manga / Shallo er ondary oil Crac atterns on Wate urrows Visible Stress ic Posi	mg, M=Mate k Surface (lark Surface) ressions (Forblematic rie Redox (lanese Mass ow Dark Su No / Indicator cks (B6) s (B10) er Table (C (C8) e on Aerial led Plants (ition (D2)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR Wetlan	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation \ Sparsely Ve	Color 10YR 4/3 : C=Concentrat (1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit to ay Indicators: Primater (A1) Table (A2) A3) s (B1) eposits (B2) its (B3) r Crust (B4) ts (B5)	ace (A11) Type: Depth (Inches): aken, residentia ary Indicators	Color On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Press Recer Thin M	ced Mate Hydric Sandy M Sandy M Sandy F Stripped Loamy M Loamy Deplete at apply Stained Aquatic F gen Sulf ged Rhizz nnce of R t Iron R Muck Sur e or Well	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (Redox Feature	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	of indi Re ore Linin ox Dari leted Dox Depors for F st Prain -Manga / Shallo er ondary oil Crac atterns on Wate urrows Visible Stress ic Posi	mg, M=Mate k Surface (lark Surface) ressions (Forblematic rie Redox (lanese Mass ow Dark Su No / Indicator cks (B6) s (B10) er Table (C (C8) e on Aerial led Plants (ition (D2)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR Wetlan	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation \ Sparsely Ve	Color 10YR 4/3 10YR 4/1	ace (A11) Type: Depth (Inches): aken, residentia ary Indicators al Imagery (B7) ave Surface ater Present? e Present?	Color On, RM=Redu On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes	ced Mati Hydric Sandy F Sandy F Stripper Loamy F Loamy F Loamy F Stained ic Fauna Aquatic F gen Sulf ted Rhiz cnce of R nt Iron Re Muck Sur e or Well No	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (Redox Feature	**Locat	rabsence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	of indi Re ore Linii ox Darl leted D ox Dep ors for F straii -Manga / Shalld er ondar oil Crac Pattern on Wate urrows Visible Stress ic Posi ral Test	mg, M=Matin k Surface (k Surface (pressions (Foroblematic rie Redox (pressions (Foroblematic rie Redox (pressions (Foroblematic rie Redox (pressions (Foroblematic rie Redox (pressions (Foroblematic rie Redox (pressions (F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X S Imagery (D1)) 12)
HYDR Wetlan	*Type *Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark: ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation \ Sparsely Ve Observation	Color 10YR 4/3 : C=Concentrate (1) edon (A2) (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to ayer (A5) (A10) elow Dark Surface (A12) (If observed): Table (A2) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A7) (A7) (A7) (A8) (A8) (A8) (A8) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A9	ace (A11) Type: Depth (Inches): aken, residentia ary Indicators al Imagery (B7) ave Surface e Present? e Present?	Color On, RM=Redu On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes Yes	ced Matt Hydric Sandy N Sandy F Stripped Loamy C Loamy C T Stained ic Fauna Aquatic F gen Sulf ged Rhizo nnce of R nt Iron R Muck Sur e or Well No No	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri File File File File File File File Fil	Redox Feature	**Locat	rabsence ure L ion: PL=Pc Red Dep Red Indicate Iron-Very Othe Yes Sec Surface Si Drainage F Dry-Sease Crayfish B Saturation Stunted or Geomorph FAC-Neutr	of indi Re ore Linii ox Darl leted D ox Dep ors for F straii -Manga / Shalld er ondar oil Crac Pattern on Wate urrows Visible Stress ic Posi ral Test	mg, M=Matin k Surface (k Surface (problematic file Redox (problemati	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)

Site: Client	W. Lancaster	r-S. Baltimor	e-W. Millersport			airfield County vnship, Range:	_Date:		<u>12024</u> Data P 336, T 16N, R 1	
Inves	tigator(s):	L. Vine, E.				Landform		oraines	Local Relief	Convex
Slope Soil N		1-3 Benningtor	Lat. 3 n silt loam, 0 to	9.826230° 2 percent slop	Long bes	-82.593620°	_Datum	NAD83	NWI Class:	N/A
(Climatic/hydrolo	gic condition	ns typical for tim	ne of year?	Y/N Y					
	Vegetation Vegetation	n N N				significantly disturbed naturally problematic				
	Iormal Circums	tances Prese		'es x						
SUIVII	MARY OF FINE Hydro	ophytic Vege	etation Present?	Yes	No X		I			
	•	Hydri	ic Soil Present?	Yes	No X	- -		DP within a		
<u> </u>		Vetiana myu	rology Present?	Yes X	No		Yes	No	X	
VEG	ETATION			^ L 201:10 0/	Daminont			1		
Tree	Stratum	Plot size:	30'	Absolute % Cover	Dominant Species	Indicator Statu	IS			
1.					——————————————————————————————————————				ninance Test V	
2. 3.						_			dominant spec	
4.					· ·				BL, FACW, or Foor of dominant	t 9
5.				0	Total Cover			species ac Percent of	ross all strata: dominant spec	-ies
Shrub	Stratum_	Plot size:	1 <u>5'</u>		=			that are OE	BL, FACW, or F	FAC: 44.44
1. 2.	Cornus alba Rubus allegh	onioneie		30 15	- Y	FACW FACU	<u>2</u> 4		e Index Works 6 cover of:	sheet
3.	Lonicera mor	rowii		10	N	FACU	4	OBL specie	es <u> </u>	x 11
4.	Prunus seroti	na		5	N	FACU	4	FACW spe	cies 40	x 2 80
5.				60	Total Cover			FAC specie FACU spec		x 3 x 4 220
	Stratum_	Plot size:	5'	O.F.	=	E4011	4	UPL specie	es 10	x 5 50
1. 2.	Solidago altis Epilobium col			25 20	- <u>Y</u>	_ <u>FACU</u> OBL	<u>4</u> 1	Tota	nl <u>111</u> Prevalence	366 e Index: 3.30
3.	Brassica rapa	3		10	N	UPL	5		ic Vegetation	Indicators:
4. 5.	Symphyotrich Xanthium stru		<u>um</u>	10 5	N N	FACW FAC	3		d Test for Hydr inance Test is	
6.	71007				·			Prev	alence Index is	s <u><</u> 3.0*
7. 8.									hological Adap ematic Hydrophyt	
				70	Total Cover				ors of hydric so	•
<u>Wood</u>	dy Vine Stratum	Plot size:	30'					hydrolo	ogy must be pre	esent, unless
2.					·	_			sturbed or prob	
					T				hitia Vaaatati	ion Present?
-	Demarks:	Т		0	Total Cover					
SOIL								Yes	No	Х
	Pro					ıment the indicator or Redox Feat		Yes	No	Х
	Pro Depth (inches)	Color	Matrix %		eded to docu	ument the indicator or Redox Featuer Redox Featuer	ures Text	Yes n absence o	No	Х
	Depth (inches)	Color 10YR 4/2	Matrix % 100	e to depth ne	eded to docu	Redox Featu	res Text Si0	Yes n absence of ture	No of indicators.)	Х
	Pro Depth (inches)	Color	Matrix % 100	e to depth ne	eded to docu	Redox Featu	ures Text	Yes n absence of ture	No of indicators.)	Х
	Depth (inches)	Color 10YR 4/2	Matrix % 100	e to depth ne	eded to docu	Redox Featu	res Text Si0	Yes n absence of ture	No of indicators.)	Х
	Depth (inches) 0-12 12-18	Color 10YR 4/2 10YR 4/1	Matrix	color	% Type	Redox Feature Redox Feature	Text	n absence of ture	No of indicators.)	X
	Depth (inches) 0-12 12-18 *Type: 0	Color 10YR 4/2 10YR 4/1	Matrix	color	% Type % Ced Matrix, CS Hydric Soil	Redox Featu * Loc**	Text	Tyes n absence of ture CL CL CL ction: PL=Po	No of indicators.) Remarks re Lining, M=M	X
	Depth (inches) 0-12 12-18 *Type: (Color 10YR 4/2 10YR 4/1 C=Concentra	Matrix	color	% Type % Type ced Matrix, C3 Hydric Soil Sandy Mucky F	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface	x latrix e (F6) ace (F7)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Color 10YR 4/2 10YR 4/1 C=Concentra	Matrix	color	% Type % Type ced Matrix, C: Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface ox Depressions	x latrix e (F6) ace (F7) c (F8)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay	Color 10YR 4/2 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5)	Matrix	color	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matrix	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemate et Prairie Redox	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (A) Hydrogen Su Stratified Lay 2 cm Muck (A)	Color 10YR 4/2 10YR 4/1 C=Concentra on (A2) A3) lfide (A4) ers (A5)	Matrix % 100 100 ation, D=Depleti	color	eeded to docu % Type ced Matrix, C3 Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleyee Sandy Redox Stripped Matt Loamy Mucky	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface sox Depressions rs for Problemat st Prairie Redox Manganese Ma	atrix e (F6) ace (F7) s (F8) s (F8) x (A16) asses (F12)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) leftide (A4) ers (A5) A10) ow Dark Surf	Matrix % 100 100 ation, D=Depleti	color	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matrix	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Presions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark S	atrix e (F6) ace (F7) s (F8) s (F8) x (A16) asses (F12)
SOIL	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (#	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) leffide (A4) ers (A5) A10) ow Dark Surfurface (A12)	Matrix % 100 100 ation, D=Depleti	Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye	Redox Feature Re	Text SiG	r absence of ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Da	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
SOIL	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) leffide (A4) ers (A5) A10) ow Dark Surfurface (A12)	Matrix % 100 100 ation, D=Depleti	Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye	Redox Feature Re	Text SiG	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Presions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark S	atrix e (F6) ace (F7) s (F8) s (F8) x (A16) asses (F12)
Restr	Production Depth (inches) 0-12 12-18 *Type: (inches) *T	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed):	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye	Redox Feature Re	Text SiG	r absence of ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Da	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belot Thick Dark Sorictive Layer (it	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed):	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye Depleted Matri	Redox Feature Re	Text SiG	r absence of ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemate st Prairie Redox Manganese Ma Shallow Dark Surface No	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
Restr	Production Depth (inches) 0-12 12-18 *Type: (inches) 0-12 12-18 *Type: (inches) *Type: (inches) Histosol (A1) Histic Epiped Black Histic (inches) Stratified Lay 2 cm Muck (And Depleted Belack Thick Dark Strictive Layer (inches) Remarks: ROLOGY and Hydrology Surface Water	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): rIndicators: Priner (A1)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Mucky Loamy Gleyer Depleted Matrix at apply) Stained Leave	Redox Feature Re	Text SiG	rabsence of ture ture CL CL CL CL CL CL CL CL CL C	Remarks Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark Surface No ondary Indicat iil Cracks (B6)	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
Restr	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo Thick Dark Si rictive Layer (interpretation of the color) Remarks: ROLOGY Surface Wate High Water T	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) Table (A2)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color	ced Matrix, CS Hydric Soil Sandy Mucky F Sandy Gleyer Sandy Redox Stripped Matri Loamy Muck Loamy Muck Loamy Gleyer Depleted Matri at apply) Stained Leavic Fauna (B13	Redox Features	Text SiG	rabsence of ture ture CL CL CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark Surface No ondary Indicate or Cracks (B6) eatterns (B10)	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12) X
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belot Thick Dark Strictive Layer (interpretation) Remarks: ROLOGY and Hydrology Surface Water High Water T Saturation (A Water Marks	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Plindicators: Priner (A1) able (A2) 3) (B1)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color	ced Matrix, C3 Hydric Soil Sandy Mucky Sandy Redox Stripped Matt Loamy Muck Loamy Gleye Depleted Matt at apply) Stained Leav ic Fauna (B13 Aquatic Plants gen Sulfide O	Redox Feature Re	Text SiG	ture ture CL	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark Surface if No ondary Indicat iii Cracks (B6) Patterns (B10) n Water Table urrows (C8)	atrix e (F6) ace (F7) ace (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12) X
Restr	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo Thick Dark Scrictive Layer (interpretation of the company of th	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleye Depleted Matrix Loamy Gleye The Matrix Loamy Gleye Depleted Matrix Loamy Gleye	Redox Feature Re	Text SiG	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12) X ors (C2) al Imagery (C9)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belot Thick Dark Strictive Layer (interpretation) Remarks: ROLOGY and Hydrology Surface Water High Water T Saturation (A Water Marks	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): rIndicators: Prin er (A1) able (A2) 3) (B1) posits (B2) 6 (B3)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color Co	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix	Redox Feature Re	Text SiG	restant services of the servic	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belac Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra con (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) fable (A2) (B1) posits (B2) (Crust (B4) (B5)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators	color Co	ceded to docu """ """ """ """ """ """ """	Redox Features Redox	res Text Sid Sid ***Locat	restant services of the servic	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belac Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Thick Dark Strictive Layer (inchest Depleted Belac) Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits	Color 10YR 4/2 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surf urface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aeri	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators	color Co	ced Matrix, CS Weded to docu """ """ """ """ """ """ """	Redox Features Redox	res Text Sid Sid ***Locat	restant services of the servic	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	*Type: 0 Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo Thick Dark So rictive Layer (interpretation (A) Remarks: ROLOGY and Hydrology Surface Wate High Water T Saturation (A) Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits Inundation Vi	Color 10YR 4/2 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Printer (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aerietated Conc : Surface W	Matrix % 100 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators face Surface face Vater Present?	color Co	ceded to docu % Type ced Matrix, C3 Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleyee Sandy Redox Stripped Matt Loamy Muck Loamy Gleyee Depleted Mat at apply) Stained Leav ic Fauna (B13 Aquatic Plants gen Sulfide O ted Rhizosphe nce of Reduce thron Reductif Muck Surface e or Well Data No X	Redox Features Redox	esent?	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	Property Depth (inches) 0-12 12-18 1	Color 10YR 4/2 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Printer (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aerietated Conc : Surface W	Matrix % 100 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators face (B7) ave Surface fater Present? ole Present?	color Color	ced Matrix, C3 Wedded to docu Wedge Type Ced Matrix, C3 Hydric Soil Sandy Mucky Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleye Depleted Matrix To Stained Leavi ic Fauna (B13) Aquatic Plants gen Sulfide O ted Rhizosphe nce of Reduce the Iron Reductif Muck Surface e or Well Data	Redox Feature Redox Feature Redox Feature Redox Feature Redox Feature Redox Feature Redox Feature Red Matrix (S4) (S5) (S6) (Mineral (F1) d Matrix (F2) (F3) (F3) (F4) (F4) (F5) (F5) (F5) (F5) (F5) (F5) (F5) (F5	esent?	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)

		ster-S. Baltime		fillersport	City/0	County:		Fa	airfield County	_ Date:		h 2024 Data		70
	igator(s):	L. Vine,			_		_ Seci	lon, ro	wnship, Range: Landforn	n Mo	oraines	S36, T 16N, F Local Relie	ef Co	onvex
Slope	(%): `´	1-3	Lat.		9.8249		Long	j	-82.594821°	Datum		NWI Class		N/A
C	limatic/hydr	ne: Centerbu	ions typic	al for tim	e of y	/ear?	Y/N	Υ						
	Vegetat Vegetat	tion N	, Soil , Soil	1	N ´ N	or Hy	/drolog /drolog	y N	significantly disturbed naturally problematic	ļ				
Are No		tion <u>N</u> mstances Pre			es	or Hy x			_naturally problemanc					
	MARY OF FI			Drocont2	. V.20		NI ₀		<u> </u>					
	Гіу	Hy	dric Soil F	Present?	Yes	X	_No No	X	_	Is the	DP within	a Wetland?		
		Wetland Hy					No	X	<u> </u>	Yes	No	Χ		
VEGE	TATION													
Tree S	Stratum	Plot size	: 30'			olute %		minant	Indicator State	us				
1.			·	_	C	Cover	5p	pecies			Dor	minance Test	ł Workst	neet
2.				<u> </u>							Number of	f dominant sp	ecies	2
3. 4.							 				that are O	BL, FACW, or ber of domina	r FAC:	
5.				_								cross all strata		4
Chh	Ctuatura	Districts	451	_		0	Total	Cover	<u> </u>		Percent of	f dominant spe	ecies	50.00
<u>Snrub</u> 1.	Stratum	Plot size	: 15	_								BL, FACW, or ce Index Wor	_	-
2.			-	_							Total 9	% cover of:		:
3.									-		OBL speci FACW spe		1 x 1 0 x 2	1
4. 5.				_							FAC speci		<u>U</u> x 2 55 x 3	165
		51				0	Total	Cover	-		FACU spe	ecies 3	85 x 4	140
Herb 5	<u>Stratum</u> Setaria fab	Plot size peri	: <u>5</u> '	_		35		Υ	FACU	4	UPL speci Tota		<u>0</u> x 5	50 356
2.	Setaria pur	mila				35		Υ	FAC	3		Prevalen	ce Index:	3.52
3.	Poa prater	nsis		_		20 10		Y N	FAC	3		tic Vegetatio		
4. 5.	Zea mays			_		10		IN	UPL	5		oid Test for Hy ninance Test i		oveg.
6.				<u> </u>							Prev	valence Index	is <u><</u> 3.0*	
7. 8.				_								phological Ad Dematic Hydroph		
			-			100	Total	Cover				tors of hydric:		
	y Vine Strat	um_Plot size	: 30'	_			_			İ		logy must be p		
1. 2.				_					-		,	listurbed or pr		
				<u> </u>		0	Total	Cover	_			phytic Veget		esent?
SOIL	Remarks:										Yes	No_	X	
<u> </u>				(Describe	e to d	lepth ne	eded	to doci	ument the indicator or		n absence	of indicators	s.)	
	Depth (inches)		Matrix	%		Color	%	Type	Redox Feat	ures Text	turo	Remarks		_
	0-10	10YR 4/	/2 1	100						SiC	CL	Tromanic		-
	10-18	10YR 5/	/1	90	10	YR 5/6	10	С	M	SiC	CL]
			+		-		+	-						-
	*Туре	e: C=Concen	tration, D	=Depletion	on, RM	M=Redu			S=Coated Sand grains Indicators:	**Locat	tion: PL=Pc	ore Lining, M=	Matrix	
	Histosol (A						Sandy	y Mucky	y Mineral (S1)			lox Dark Surfa		
	Histic Epip	edon (A2)					5cm Ñ	Mucky É	Peat or Peat		Dep	leted Dark Su	urface (É7	7)
	Black Histi	c (A3) Sulfide (A4)						y Gleye v Redox	d Matrix (S4)			lox Depression ors for Problem		ric Soils
	Stratified L	ayers (A5)					Stripp	ed Mat	rix (S6)		Coa	st Prairie Rec	dox (A16))
	2 cm Muck	k (A10) Below Dark Si	··rfaca (A	44\					y Mineral (F1) ed Matrix (F2)			-Manganese I y Shallow Dar		
	_ '	Selow Dark St Surface (A1)	`	11)				iy Gleye eted Ma			Othe		K Sunace	∋ (F1∠)
Restri		(if observed	d): Type:											
	Remarks:		Depth	(Inches):					Hydric Soil Pr	esent?	Yes	X No		
HYDR	OLOGY													
Wetla	nd Hydrolo	gy Indicator	s: rimary Ind	dicators	/che		of ann	11/1			Sec	ondary Indic	ators	
	Surface Wa		Illiar y III.	uicaioi s	(CITE	Water	r Staine	ed Leav	/es (B9)	+	Surface So	oil Cracks (B6	5)	
	High Water	r Table (A2)				Aquat	tic Fau	na (B13	3)		Drainage I	Patterns (B10)	
	Saturation Water Marl							c Plants ulfide O	s (B14) odor (C1)	-		on Water Tabl Burrows (C8)	e (UZ)	
	Sediment [Deposits (B2))			Oxidiz	zed Rh	izosphe	eres on Living Roots		Saturation	Visible on Ae		
	Drift Depos	sits (B3) or Crust (B4)							ed Iron (C4) ion in Tilled Soil (C6)	<u> </u>		r Stressed Pla nic Position (D		
	Iron Depos							Surface				ral Test (D5)	,2)	
	Inundation	Visible on Ae				Guage	e or W	ell Data			-	` ,		
Field (egetated Cor			Yes	Other	No	Х	Depth (inches)					
rieiu	ODSEI VALIO		able Pres		Yes		No	X	Depth (inches)	Hydro	loy Indicat	ors Present?	,	
Dooori	ha Dagarda		on Presen		Yes	اما معنا	No	X	Depth (inches)	oilobloi	Yes	s No	Х	
	dric indicat		in guage	i, monitor	ing w	en, aena	ai prioto	os, prev	vious inspections), if ava	allable.				

			e-W. Millersport				field County	Date:		24 Data Poin	nt: <u>68</u>
Client: Investi	igator(s):	AEP L. Vine, E.	Holt	State: Un	Section	n, Towr	nship, Range: Landform	Мо		16N, R 19W ocal Relief	Convex
Slope	(%): `	1-3	Lat. 3	9.821591°	Long.		-82.598206°	Datum		WI Class:	N/A
Soil M	ap Unit Name:	Benningtor	n silt loam, 0 to a	2 percent slop	pes Y/N	Υ					
C	Vegetation	ìΝ	, Soil I	N or Hy	/drology	N s	significantly disturbed				
	Vegetation	n N	, Soil	N or Hy	drology		naturally problematic				
	ormal Circumst		ent? Y	es x	_ No						
301		phytic Vege	etation Present?		No	Χ					
	14		ic Soil Present?		No	X			DP within a We		
	V	Vetiana myu	rology Present?	Yes	No	Χ		Yes	No	X	
VEGE	TATION										
Tree S	Stratum	Plot size:	30'	Absolute % Cover	Domii Spec		Indicator Statu	s			
1.				Covei	Spec	cies			Domina	nce Test Wor	ksheet
2.									Number of don	ninant species	3
3.									that are OBL, F	FACW, or FAC	<i></i>
4. 5.					_				species across		7
	-			0	Total Co	over	-		Percent of dom	ninant species	42.86
	Stratum	Plot size:	15'	20	_		- :011		that are OBL, F):
1. 2.	Rubus alleghe Elaeagnus un			30 10	_ <u> </u>	,	FACU UPL	<u>4</u> 5	Prevalence In Total % co		et
3.	Liacagnas a	IDenata		10			OI L		OBL species	1 x	1 1
4.									FACW species	3 13 x	2 26
5.				40	Total Co	ovor.			FAC species FACU species	<u>60</u> x 55 x	
Herb S	Stratum	Plot size:	5'		_ I Ulai Ol	Jvei			UPL species	10 x	
1.	Poa pratensis	;		60	Y	<u>'</u>	FAC	3	Total	139	477
2.	Taraxacum of			20 10	_ <u>Y</u>	<u>'</u>	FACW	4		Prevalence Ind	
3. 4.	Wisteria frute Solidago cana			5	N		FACW FACU	<u>2</u> 4	Hydrophytic V	egetation ind	
5.	Viola renifolia			3	N	1	FACW	2		nce Test is >50	
6.				2	N	I				nce Index is <3	
7. 8.					=					ogical Adaptat tic Hydrophytic V	
0.				100	Total Co	over				of hydric soil a	ŭ
	y Vine Stratum	_ Plot size:	30'		_					must be prese	
1.				-						bed or problen	
2.				0	Total Co	over		_	Hydrophyt	ic Vegetation	
ı	Remarks:			0	Total Co	over					Present? X
		file Descrip	otion: (Describ				nent the indicator or	confirm	Hydrophyt Yes	No	
ı	Pro Depth	Ī	Matrix `	e to depth no	eeded to	docun	Redox Featu	ıres	Hydrophyt Yes n absence of ir	No ndicators.)	
ı	Pro Depth (inches)	Color	Matrix %			docun		res Text	Hydrophyt Yes n absence of in	No	
ı	Pro Depth	Ī	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	ıres	Hydrophyt Yes nabsence of ir	No ndicators.)	
ı	Pro Depth (inches) 0-15	Color 10YR 4/2	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophyt Yes nabsence of ir	No ndicators.)	
ı	Pro Depth (inches) 0-15	Color 10YR 4/2	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophyt Yes nabsence of ir	No ndicators.)	
ı	Pro Depth (inches) 0-15 15-18	Color 10YR 4/2 10YR 4/4	Matrix	e to depth no	eeded to	docun Type*	Redox Featu	res Text Si Si	Hydrophyt Yes nabsence of ir	No ndicators.) Remarks	X
ı	Pro Depth (inches) 0-15 15-18 *Type: (Color 10YR 4/2 10YR 4/4	Matrix	e to depth no	% wced Matr Hydric	docun Type*	Redox Featu Loc** -Coated Sand grains dicators:	res Text Si Si	Hydrophyt Yes absence of in ure L L ion: PL=Pore L	No ndicators.) Remarks ining, M=Matri	X X
ı	Pro Depth (inches) 0-15 15-18 *Type: 0	Color 10YR 4/2 10YR 4/4	Matrix	e to depth no	% uced Matr Hydric Sandy M	docun Type* rix, CS= Soil In	Redox Featu Loc** -Coated Sand grains dicators: Mineral (S1)	res Text Si Si	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D	No ndicators.) Remarks ining, M=Matri	x x
ı	Pro Depth (inches) 0-15 15-18 *Type: (Color 10YR 4/2 10YR 4/4 C=Concentra	Matrix	e to depth no	eeded to % uced Matr Hydric Sandy N 5cm Mu	Type* Type* Tix, CS= Soil In Mucky N acky Pe	Redox Featu Loc** -Coated Sand grains dicators:	res Text Si Si	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D	ndicators.) Remarks ining, M=Matri Park Surface (For John Surface) Depressions (For John Surface)	X x 76) ((F7) 8)
ı	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul	Color 10YR 4/2 10YR 4/4 C=Concentra on (A2) A3) fide (A4)	Matrix	e to depth no	uced Matr Hydric Sandy N Sandy G Sandy F	docum Type* rix, CS= Soil In Mucky N icky Pe Gleyed Redox (Redox Featu Loc** -Coated Sand grains dicators: dineral (S1) at or Peat Matrix (S4) S5)	res Text Si Si	Hydrophyt Yes n absence of in ure L L ion: PL=Pore L Redox D Depleted Redox D Indicators for	ndicators.) Remarks ining, M=Matri park Surface (For Problematic For Proble	X X F6) 1: (F7) 8) Hydric Soils
ı	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye	Color 10YR 4/2 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5)	Matrix	e to depth no	uced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped	Type* Type* Type* Tix, CS= Soil In Mucky Pe Gleyed Redox (dd Matrix	Redox Featu Loc** 	res Text Si Si	Hydrophyt Yes n absence of in ure L L ion: PL=Pore L Redox D Depletec Redox D Indicators for	ndicators.) Remarks ining, M=Matri Dark Surface (For Problematic For Problematic For Produced	X x -6 (6) 1: (F7) 8) 8) Hydric Soils 116)
ı	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul	Color 10YR 4/2 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5)	Matrix % 100 100 ation, D=Depletic	e to depth no	uced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Stripped Loamy N	Type* Tix, CS= Soil In Mucky N cky Pe Gleyed Redox (d Matrix Mucky Mucky	Redox Featu Loc** -Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) (S6) Mineral (F1)	res Text Si Si	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic For Problematic For Programmers Massimal Progr	X x (F7) 8) Hydric Soils 116) es (F12)
SOIL	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Lays 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Surface (A12)	Matrix % 100 100 ation, D=Depleting	e to depth no	uced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Stripped Loamy N	Type* Tix, CS= Soil In Mucky Necky Pe Gleyed Redox (dd Matrix Mucky Gleyed	Redox Featu Loc** -Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) : (S6) Mineral (F1) Matrix (F2)	res Text Si Si	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi	ndicators.) Remarks ining, M=Matri Dark Surface (For Problematic For Problematic For Produced	X x (F7) 8) Hydric Soils 116) es (F12)
SOIL	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (Hydrogen Sul Stratified Layo 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Surface (A12)	Matrix % 100 100 ation, D=Depletion face (A11)	e to depth no	wiced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy N	Type* Tix, CS= Soil In Mucky Necky Pe Gleyed Redox (dd Matrix Mucky Gleyed	Redox Featu Loc** Coated Sand grains dicators: dineral (S1) at or Peat Matrix (S4) S5) (S6) Mineral (F1) Matrix (F2) x (F3)	Text Sil Sil Sil ***Locat	Hydrophyt Yes n absence of in ure L L L Sion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Sha Other	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic For Proble	x F6) (F7) 8) Hydric Soils 116) es (F12) fface (F12)
SOIL	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Lays 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Surface (A12)	Matrix % 100 100 ation, D=Depleting	e to depth no	wiced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy N	Type* Tix, CS= Soil In Mucky Necky Pe Gleyed Redox (dd Matrix Mucky Gleyed	Redox Featu Loc** -Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) : (S6) Mineral (F1) Matrix (F2)	Text Sil Sil Sil ***Locat	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi Iron-Mar Very Sha	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic For Proble	X x (F7) 8) Hydric Soils 116) es (F12)
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Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipedd Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2)	Matrix % 100 100 ation, D=Depleting face (A11) Type: Depth (Inches)	c to depth no Color Color On, RM=Redu (check all the Wate Aquar	eeded to % Inced Matr Hydric Sandy N Sandy N Sandy F Stripped Loamy N Loamy N Depleted mat apply r Stained tic Fauna	Type* Tix, CS= Soil In Mucky Fe Gleyed Redox (d Matrix Mucky Gleyed d Matri Leave: (B13)	Redox Featu Loc**	res Text Si Si Si **Locat	Hydrophyt Yes n absence of ir ure L L Sion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Sha Other Yes Second Surface Soil C Drainage Patte	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Horaline Redox (Anganese Massiallow Dark Surface) No ary Indicators racks (B6) Perns (B10)	x F6) (F7) 8) Hydric Soils 116) es (F12) fface (F12)
Restri	Pro Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epipedd Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water T Saturation (A)	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra con (A2) A3) fide (A4) ers (A5) 10) bw Dark Surfurface (A12) cobserved): Indicators: Prin r (A1) able (A2) 3)	Matrix % 100 100 ation, D=Depleting face (A11) Type: Depth (Inches)	c to depth no Color Color On, RM=Redu (check all the Wate Aquar True	uced Matr Hydric Sandy N 5cm Mu Sandy F Stripped Loamy N Loamy O Depleted	Type* Tix, CS= Soil In Mucky N Cky Pe Sleyed Redox (d Matri Mucky Gleyed d Matri Leave: (B13) Plants (i	Redox Featu Loc** 	**Locat	Hydrophyt Yes n absence of ir ure L L Sion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi Iron-Mar Very Sha Other Yes Second Surface Soil C Drainage Patte Dry-Season W	ndicators.) Remarks ining, M=Matri Park Surface (F d Dark Surface (Pepressions (F- or Problematic H rairie Redox (A- nganese Massiallow Dark Sur No ary Indicators racks (B6) erns (B10) ater Table (C2	x F6) (F7) 8) Hydric Soils 116) es (F12) fface (F12)
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipedd Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Suri urface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1)	Matrix % 100 100 ation, D=Depleting face (A11) Type: Depth (Inches)	cto depth not Color Colo	weeded to % weeded to % weeded to weede	Type* Tix, CS= Soil In Mucky N Cky Pe Gleyed Mucky Gleyed Matri Mucky Gleyed Matri Leaves (B13) Plants (ide Odd	Redox Featu Loc** 	**Locat	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi Iron-Mar Very Sha Other Yes Second: Surface Soil C Drainage Patte Dry-Season W Crayfish Burror	ndicators.) Remarks ining, M=Matri Park Surface (F d Dark Surfa	X x -6) (F7) 8) Hydric Soils 116) es (F12) face (F12) X
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Bele Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water T Saturation (A: Water Marks Sediment Dep	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ww Dark Suriurface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3)	Matrix % 100 100 ation, D=Depleting face (A11) Type: Depth (Inches)	cto depth not Color Color on, RM=Redu on, RM=Redu True Aquat True Hydro Oxidiz Prese	weeded to % water Hydric Sandy Notes and your Sandy Notes and your Sandy Notes and your Sandy Notes are a second to the same of the same and the s	Type* Type* Tix, CS= Soil In Mucky Pe Gleyed d Matrix Mucky Gleyed d Matrix Mucky Gleyed d Matrix Mucky Gleyed d Matrix Mucky Gleyed d Matrix Mucky Gleyed d Matrix Mucky Gleyed d Matrix Delants (lide Oddosphere) educed	Redox Featu Loc** Coated Sand grains dicators: dineral (S1) at or Peat Matrix (S4) S5) (S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Pro S (B9) S14) or (C1) or S on Living Roots	res Text Sii Si **Locat	Hydrophyt Yes n absence of in ure L L Sion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Shar Other Yes Seconda Surface Soil C Drainage Patte Dry-Season W Crayfish Burrov Saturation Visi Stunted or Stre	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Prairie Redox (Anganese Massiallow Dark Surfaces (B6) ems (B10) fater Table (C2) wis (C8) ble on Aerial Intersed Plants (Intersed Plants)	x x x x x x x x x x x x x x x x x x x
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Bele Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra Con (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Print (A1) able (A2) (B1) cosits (B2) (B3) Crust (B4)	Matrix % 100 100 ation, D=Depleting face (A11) Type: Depth (Inches)	cto depth not color Colo	weeded to % water Hydric Sandy Notes and your Sandy Notes and your Sandy Notes and your Sandy Notes are to sandy Notes are to sandy Notes are to sand your sand aduatic Pauna Aquatic Pagen Sulfit yed Rhizoe and Roman Iron Research Sand Notes are to sand Notes are	docun Type* rix, CS= Soil In Mucky Pe Gleyed Add Matri Mucky Gleyed d Matri Plants (I ide Odo osphere educed eduction	Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Feature Redox Fe	res Text Si Si Si **Locat	Hydrophyte Yes n absence of interpretation: PL=Pore Les Control Contr	ndicators.) Remarks ining, M=Matri Dark Surface (Fed Dark Surface Depressions (Fed Dark Surfa	x x x x x x x x x x x x x x x x x x x
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipedd Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A) Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A) Water Marks Sediment Dep Drift Deposits Algal Mat or (Inches) Inches Inch	Color 10YR 4/2 10YR 4/4 10YR 4/4 10YR 4/4 C=Concentra On (A2) A3) fide (A4) ers (A5) 10) ow Dark Surfurface (A12) Tobserved): Indicators: Prin or (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5)	Matrix % 100 100 ation, D=Depletion face (A11) Type: Depth (Inches) nary Indicators	cto depth not Color Color On, RM=Redu Check all th Wate Aquat True Hydro Oxidia Presse Recee Thin I	eeded to % Juced Matr Hydric Sandy N Sandy F Strippeo Loamy N Loamy N Loamy N Loamy O Depleter at apply r Stained tic Fauna Aquatic P ogen Sulfi zed Rhizo ence of Re nt Iron Re Muck Sur	Type* Tix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed d Matrix (B13) Plants ((ide Odd osphere educed eduction face (C	Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Feature Redox Feature Redox Feature Redox Feature Redox	res Text Si Si Si **Locat	Hydrophyt Yes n absence of in ure L L Sion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Shar Other Yes Seconda Surface Soil C Drainage Patte Dry-Season W Crayfish Burrov Saturation Visi Stunted or Stre	ndicators.) Remarks ining, M=Matri Dark Surface (Fed Dark Surface Depressions (Fed Dark Surfa	x x x x x x x x x x x x x x x x x x x
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul 2 cm Muck (A Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg	Color 10YR 4/2 10YR 4/4 10YR 4/4 10YR 4/4 C=Concentra con (A2) A3) fide (A4) ers (A5) 10) by Dark Surfurface (A12) cobserved): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Concentra	Matrix % 100 100 100 ation, D=Depletion face (A11) Type: Depth (Inches) mary Indicators face Surface	cto depth not Color Color On, RM=Redu On, RM=Redu Aquat True Hydro Oxidi: Prese Recee Thin I Guag Other	weeded to % weeded to % weeded to % weeded to we	Type* Tix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed d Matrix (B13) Plants ((ide Odd osphere educed eduction face (C	Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Feature Redox Fe	res Text Si Si Si **Locat	Hydrophyte Yes n absence of interpretation: PL=Pore Les Control Contr	ndicators.) Remarks ining, M=Matri Dark Surface (Fed Dark Surface Depressions (Fed Dark Surfa	x x x x x x x x x x x x x x x x x x x
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipedd Black Histic (A1) Hydrogen Sul Stratified Laye 2 cm Muck (A2) Depleted Beloc Thick Dark Suctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A2) Water Marks Sediment Deposits Algal Mat or (A2) Iron Deposits Inundation Visionals	Color 10YR 4/2 10YR 4/4 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Suri urface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conce Surface W	Matrix % 100 100 100 ation, D=Depletion face (A11) Type: Depth (Inches) mary Indicators face Surface face Vater Present?	check all the Wate Aquar True Hydro Oxidiz Prese Recer Thin Guag Other	weeded to % weeded to % weeded to % weeded to weeded weeded to weede	Type* Tix, CS= Soil In Mucky Pe Gleyed Redox (d Matri Mucky Gleyed d Matri (B13) Plants (ide Odo psphere educed eduction face (C Data (Redox Featu Loc**	**Locat	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi Iron-Mar Very Sha Other Yes Second Surface Soil C Drainage Patte Dry-Season W Crayfish Burror Saturation Visi Stunted or Stre Geomorphic Pr FAC-Neutral T	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Prairie Redox (Arganese Massiallow Dark Surface (B10) ary Indicators racks (B6) errs (B10) ater Table (C2 ws (C8) ble on Aerial Inessed Plants (Iosition (D2) est (D5)	x x x x x x x x x x x x x x x x x x x
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul 2 cm Muck (A Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg	Color 10YR 4/2 10YR 4/4 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Suri urface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conce Surface W	Matrix % 100 100 100 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators face (B7) ave Surface fater Present? le Present?	cto depth not Color Color On, RM=Redu On, RM=Redu Aquat True Hydro Oxidi: Prese Recee Thin I Guag Other	weeded to % weeded to % weeded to % weeded to we	Type* Tix, CS= Soil In Mucky N Cky Pe Selyed Redox (d Matri Mucky Gleyed d Matri Leaves (B13) Plants (ide Odo psphere educed eduction face (C Data (Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Feature Redox Fe	**Locat	Hydrophyte Yes n absence of interpretation: PL=Pore Les Control Contr	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Frairie Redox (Arganese Massiallow Dark Surfaces (B10) ary Indicators racks (B6) erns (B10) ary Indicators racks (B10) ester Table (C2 ws (C8) ble on Aerial Intersect (D5) Present?	x x x x x x x x x x x x x x x x x x x

Client	W. Lancasto	AEP					irfield County rnship, Range:	Date:	27 Marc	<u>h 2024 </u> Data Po S36, T 16N, R 19	int: <u>63</u>	
Invest	tigator(s):	L. Vine, E				1, 1000	Landform		oraines	Local Relief	Convex	
Slope Soil M		e: Centershi	_Lat. urg silt loam, 2 t	39.813840°	Long.		-82.606066°	Datum	NAD83	NWI Class:	N/A	
C	Climatic/hydro	logic condition	ons typical for tir	me of year?	Y/N	Y						
	Vegetation Vegetation	on N on N	, Soil _, Soil		/drology _ /drology		significantly disturbed naturally problematic					
	Iormal Circum	stances Pres		Yes x		1.4	Tiditalian production					
SUMI	MARY OF FIN Hyd	Irophytic Veg	etation Present	? Yes X	No			I				
	•	Hyd	Iric Soil Present	? Yes	No					a Wetland?		
<u> </u>		Wetianu nyu	drology Present	? Yes	No	<u>X</u>		Yes	No	Х		
VEGE	ETATION			Absolute %	Domir	cont			_			
Tree S	Stratum_	Plot size:	30'	Cover	Spec		Indicator Statu	s				
1.										minance Test Wo		
2. 3.							-			f dominant specie BL, FACW, or FA		
4.										BL, FACW, or FA ber of dominant	1	
5.				0	Total Co	over	-		species at Percent of	cross all strata: f dominant specie	<u> </u>	
	Stratum	Plot size:	15'		•				that are O	BL, FACW, or FA	.C: 100.	.00
1. 2.							-		Total	ce Index Worksh % cover of:	eet	
3.									OBL spec	ies 1		1
4. 5.	-			-					FACW spec		< 2 < 3	0
	~·····	Distriction		0	Total Co	over			FACU spe	ecies 100 >	(4	400
Herb :	Stratum Schedonoru	Plot size: Is arundinace		100	Υ		FACU	4	UPL speci Tot			0 401
2.										Prevalence I	ndex: 3	3.97
3. 4.										rtic Vegetation In old Test for Hydro		
5.	-								x Don	ninance Test is >	50%	
6. 7.									Mor	valence Index is < phological Adapta	ations*	
8.				100	Total Co				Prob	lematic Hydrophytic	Vegetation*	
Wood	dy Vine Stratu	m Plot size:	30'	100	Total Co	over				tors of hydric soil logy must be pres		t k
1.		<u> </u>							,	logy must be pres listurbed or proble		
				0	Total Co	ver			Hydro	phytic Vegetatio		
SOIL	Remarks:								Yes	X No		
30		rofile Descri		be to depth no	eded to	docu	ment the indicator or		n absence	of indicators.)		
	Depth (inches)		Matrix %			Type	Redox Featu					
	(111000)	Color	/0	Color	%		* I oc**	Text	ure	Remarks		
		Color	/0	Color	%	Турс	* Loc**	Text		Remarks lo soil pit, residen	tial	
		Color	76	Color	%	Турс	* Loc**	Text			tial	
		Color	/0	Color	%	Турс	* Loc**	Text			tial	
	*Type:								N			
		: C=Concenti			uced Matri	ix, CS Soil I	=Coated Sand grains		ion: PL=Po	lo soil pit, residen	rix	
	Histosol (A1	: C=Concenti			uced Matri Hydric S Sandy M	ix, CS Soil I	=Coated Sand grains ndicators: Mineral (S1)		ion: PL=Po	lo soil pit, residen ore Lining, M=Mat lox Dark Surface	rix (F6)	
	Histosol (A1 Histic Epipe Black Histic	: C=Concentr) don (A2) (A3)			Liced Matri Hydric Sandy M 5cm Mud Sandy G	ix, CS Soil II Nucky cky Pe Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4)		ion: PL=Po	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions ((F6) ce (F7) F8)	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S	: C=Concentr) don (A2) (A3) ulfide (A4)			Joseph Matri Hydric S Sandy M 5cm Muc Sandy G Sandy R	ix, CS Soil II Mucky cky Pe Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5)		ion: PL=Po	lo soil pit, residen ore Lining, M=Mat lox Dark Surface eleted Dark Surface	rix (F6) Se (F7) F8) Hydric Soils	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	: C=Concentrollor odon (A2) (A3) ulfide (A4) tyers (A5) (A10)	ration, D=Deple		Joseph Matri Hydric: Sandy M 5cm Mu Sandy R Sandy R Stripped Loamy M	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1)		Red Dep Red Indicate Coa Iron	ore Lining, M=Mat lox Dark Surface leted Dark Surface lox Depressions (pors for Problematic ist Prairie Redox (-Manganese Mas	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	: C=Concentr) don (A2) (A3) ulfide (A4) yers (A5) (A10) elow Dark Su	ration, D=Deple		Joseph Matri Hydric: Sandy M 5cm Mu Sandy G Sandy R Stripped Loamy M Loamy O	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) Matrix (F2)		ion: PL=Po Red Dep Red Indicate Coa Iron Very	ore Lining, M=Mat lox Dark Surface leted Dark Surface lox Depressions (ors for Problemations st Prairie Redox I-Manganese Mas y Shallow Dark Su	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
Restr	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	C=Concentrical Concentrical Con	ration, D=Deple	etion, RM=Redu	Joseph Matri Hydric: Sandy M 5cm Mu Sandy R Sandy R Stripped Loamy M	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3)	**Locat	ion: PL=Po	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions (fors for Problematic erors for Problematic erors for Broblematic erors for Broble	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S	C=Concenti) don (A2) (A3) ulfide (A4) syers (A5) (A10) elow Dark Su Surface (A12) (if observed)	rration, D=Deple	stion, RM=Redu	Sandy Modern Sandy Research Sandy Research Sandy Research Sandy Research Stripped Loamy Research Sandy Research	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) Matrix (F2)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Very	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions (fors for Problematic erors for Problematic erors for Broblematic erors for Broble	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY	: C=Concentr) don (A2) (A3) ulfide (A4) tyers (A5) (A10) elow Dark Su Surface (A12 (if observed)	ration, D=Deple rface (A11) :) : Type: Depth (Inches t was taken; this	ation, RM=Redu	Sandy Modern Sandy Research Sandy Research Sandy Research Sandy Research Stripped Loamy Research Sandy Research	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3)	**Locat	ion: PL=Po	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions (fors for Problematic erors for Problematic erors for Broblematic erors for Broble	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (: C=Concentr) don (A2) (A3) ulfide (A4) tyers (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	stion, RM=Redu	Josephania James Alaman (1997) James Alaman (1997)	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyec d Matr	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Very Oth	ore Lining, M=Mat lox Dark Surface eleted Dark Surface oleted Dark Surface ors for Problematic ist Prairie Redox i-Manganese Mas y Shallow Dark Ster	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa	C=Concentriction (A2) (A3) ulfide (A4) ulfide (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit (y) Indicators Printer (A1)	ration, D=Deple rface (A11) :) : Type: Depth (Inches t was taken; this	s): s is a residentia	Juced Matri Hydric: Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy M Depleted al area	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed Matr	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Preses (B9)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ver Oth Yes Sec Surface S	lo soil pit, resident pre Lining, M=Mat lox Dark Surface pleted Dark Surface lox Depressions (for Problematic at Prairie Redox of Manganese Mas by Shallow Dark Suer No.	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water	C=Concenti) don (A2) (A3) ulfide (A4) yers (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit y Indicators Pri ter (A1) Table (A2)	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	sis a residentia Water Aquat	Jaced Matri Hydric Sandy M Sandy G Sandy R Stripped Loamy M Loamy G Depleted al area Tat apply) T Stained tic Fauna	ix, CS Soil II Mucky Cky Pe Seleyed Redox I Matri Mucky Gleyed Matri Leave (B13)	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Press es (B9)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ver Oth Yes Sec Surface S Drainage	lo soil pit, resident pre Lining, M=Mat lox Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface lox Prairie Redox of Shallow Dark Surface produced by Shallow	rrix (F6) se (F7) F8) Hydric Soils (A16) ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark	: C=Concentri) don (A2) (A3) ulfide (A4) tyers (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pir ty Indicators Pri ter (A1) Table (A2) A3) s (B1)	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia Fs (check all the Water Aquar Aquar Hydro	Josepharia Jaced Matri Hydric: Sandy Mosandy Results Sandy Results Sandy Results Sandy Results Results Sandy Results R	ix, CS Soil In Jucky Cky Pe Sleyed Redox I Matri Mucky Gleyed Matr Leave (B13) Ilants de Od	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) Nor (C1)	**Locat	Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage Dry-Seass Crayfish B	lo soil pit, resident pre Lining, M=Mat lox Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Problematic last Prairie Redox I-Manganese Mas y Shallow Dark Suer No loil Cracks (B6) Patterns (B10) on Water Table (Caurrows (C8)	rix (F6) Se (F7) F8) Se Hydric Soils (A16) Ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D	C=Concentrical Concentrical Con	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia Water Aquat True / Hydro Oxidiz	Josephalia Jaced Matri Hydric: Sandy Mosandy Rosandy R	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed Matr Leave (B13) Plants Plants Ide Oo	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pro es (B9) (B14) lor (C1) es on Living Roots	**Locat	ion: PL=Po Red Dep Red Indicate Iron Ven Oth Yes Sec Surface S Dray-Seasc Crayfish B Saturation	lo soil pit, residen pre Lining, M=Mat lox Dark Surface bleted D	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or	C=Concentrice C=Concentrice C(A3) Ulfide (A4) Ulfide (A5) (A10) Elow Dark Su Surface (A12 (if observed) No soil pit In Indicators Printer (A1) Table (A2) A3) S (B1) Eposits (B2) ts (B3) Crust (B4)	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia True / Hydro Oxidiz Prese Recer	Juced Matric Hydric: Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy M Depleted Total area Total area Total area Total area Total area Total area Total area Total area Total area Total area Total area	ix, CS Soil II Mucky Cky Pe Gleyed Redox I Matri Mucky Gleyed d Matr Leave (B13) Hants de Od ospher educeeductic	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) lor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted of Geomorph	lo soil pit, resident pre Lining, M=Mate lox Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface plet	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment Do Iron Deposit	C=Concentrice (A3) ulfide (A4) ulfide (A4) ulfide (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit y Indicators Printer (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) · Crust (B4) ts (B5)	ration, D=Deple	s): s is a residentia Water Aquat True / Hydro Oxidiz Prese Recer Thin M	Jaced Matri Hydric Sandy Mosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosand Ros	ix, CS Soil II Mucky Cky Pe Seleyed Redox I Matri Mucky Gleyed Matri Mucky Gleyed (B13) Plants de Od pspher educete educte face ((=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) for (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted of Geomorph	ore Lining, M=Mate of Lining, M=Mater of Lining,	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposit Inundation \(\)	C=Concentrice C=Concentrice C=Concentrice C(A3) (A3) (A10) (ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia Water Aquat True / Hydro Oxidiz Prese Recer Thin M	Juced Matri Hydric Sandy Months Sandy Months Sandy Months Sandy Months Sandy Months Sandy Months Months Sandy Months Months Sandy Months Month	ix, CS Soil II Mucky Cky Pe Seleyed Redox I Matri Mucky Gleyed Matri Mucky Gleyed (B13) Plants de Od pspher educete educte face ((=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) for (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted of Geomorph	lo soil pit, resident pre Lining, M=Mate lox Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface plet	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDF	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (, Water Mark Sediment D Drift Deposit Inundation (, Sparsely Ve	: C=Concentr) don (A2) (A3) ulfide (A4) tyers (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit ty Indicators Pri tter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) ' Crust (B4) ts (B5) //sible on Ael getated Con- s: Surface V	ration, D=Deple rface (A11) :) : Type: Depth (Inchest was taken; this :: mary Indicator rial Imagery (B7 cave Surface Vater Present?	s): s is a residentia Frue Hydro Oxidiz Prese Recer Thin M Guag Other	Josepharia Jaced Matri Hydric: Sandy Mosandy Rosandy osand Ro	ix, CS Soil In Jucky Cky Pe Redox I Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Matri Mucky Ma	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) X (S6) Mineral (F1) Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) Or (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches)	**Locat	Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Crayfish B Saturation Stunted of Geomorph FAC-Neut	lo soil pit, resident pre Lining, M=Mat lox Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface lox Depressions (ors for Problematic st Prairie Redox James Masy Shallow Dark Surface No. No.	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDF Wetla	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (, Water Mark Sediment D Drift Deposit Inundation \ Sparsely Ve Observation	C=Concentrical Concentrical Con	ration, D=Deple ration, D=Deple ration, D=Deple riace (A11) riace	s): s is a residentia True / Hydro Oxidiz Prese Recer Thin N Guag Other Yes Yes Yes	Jaced Matri Hydric: Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy M Loamy G Depleted The stripped G Loamy G	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed Matri Leave (B13) Plants de Od spher educee eduction face (I Data X X X	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) for (C1) es on Living Roots d Iron (C4) or in Tilled Soil (C6) (C7) (D9)	**Locat **Locat X Hydrol	Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Crayfish B Saturation Stunted of Geomorph FAC-Neut	lo soil pit, resident pre Lining, M=Mat lox Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted let	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	

		-S. Baltimore	e-W. Millersport		Section		virfield County vnship, Range:	Date:		n 2024 Data Poi c S1. T 15N. 19W	
	tigator(s):	L. Vine, E.		-	_ Section	i, IOw	vnship, Range: Landform	М	oraines	c S1, T 15N, 19W Local Relief	Convex
Slope	e (%): `´	1-3	Lat. 3	89.812051	Long.	-1~4	-82.608505	Datum	NAD83	NWI Class:	N/A
SOILIV	lap Unit Name: Climatic/hvdrolo	centersbut aic condition	rg silt loam, 2 to ns typical for tim	e of vear?	y/N	aea Y					
	Vegetation	<u> N</u>	, Soil	N or Hy	drology		significantly disturbed				
Δro N	Vegetation Iormal Circumst		,	N or Hy es x	drology No	N	naturally problematic				
	MARY OF FIND	INGS		-	_ 110 _		=				
	•	Hydri	tation Present? ic Soil Present?	Yes	No No	Х	- - -	Is the	DP within	a Wetland?	
	W	etland Hydr	rology Present?	Yes X	No			Yes	No	X	
VEGE	ETATION										
Tree S	Stratum	Plot size:	30'	Absolute %	Domir		Indicator Statu	S			
1.	Acer rubrum	1 101 0120.		Cover 30	Spec Y		FAC	3	Dor	ninance Test Wo	rkshoot
2.	Acer rubrum						TAC	<u> </u>		dominant species	
3.							-		that are Ol	BL, FACW, or FAG ber of dominant	C:
4. 5.					-		· -			cross all strata:	6
J.				30	Total Co	ver				dominant species	66.67
	Stratum_	Plot size:	15'		-	,		_		BL, FACW, or FA	C:
1. 2.	Lonicera maa	CKII		15	Y	,	UPL	5		e Index Workshe % cover of:	eet
3.	-								OBL speci	es 1 x	
4.									FACW spe		
5.				15	Total Co)Ver			FAC speci FACU spe		3 210 4 40
Herb	Stratum_	Plot size:	5'		-				UPL speci	es 15 x	5 75
1.	Typha angust			50	Y	,	OBL	1	Tota		326
2. 3.	Barbarea vulg Poa pratensis			20	- <u>Y</u>		FAC FAC	3	Hydronhy	Prevalence Ir tic Vegetation In	
4.	Prunus serotii			10	N		FACU	4	Rap	id Test for Hydrop	hytic Veg.
5.										ninance Test is >5	
6. 7.	-									/alence Index is ≤ ohological Adapta	
8.					-					lematic Hydrophytic	
11/000	du Vina Ctratum	Dieteize	20'	100	Total Co	ver			*Indicat	ors of hydric soil a	and wetland
1.	dy Vine Stratum	Plot size:	30						,	ogy must be prese	
2.										isturbed or proble	
	Remarks:	1		0	Total Co	ver			Hydro Yes	phytic Vegetation X No	n Present?
SOIL									•		
				e to depth ne	eded to	docu	ment the indicator or Redox Featu		n absence	of indicators.)	
	Depth (inches)	Color	Matrix %	Color	%	Type	* Loc**	Text	ture	Remarks	
	0-15	10YR 4/2	100					Si			
	15-18	10YR 4/4	85	10YR 4/6	15	С	M	SiC	CL		
	*Type: C	C=Concentra	ation, D=Depleti	on, RM=Redu			S=Coated Sand grains	**Locat	ion: PL=Pc	ore Lining, M=Matı	rix
	*Type: C	C=Concentra	ation, D=Depleti	on, RM=Redu	Hydric	Soil I	S=Coated Sand grains ndicators: Mineral (S1)	**Locat		ore Lining, M=Mati	
	Histosol (A1) Histic Epipedo	on (A2)	ation, D=Depleti	on, RM=Redu	Hydric Sandy M 5cm Mu	Soil I ⁄lucky cky P	ndicators: Mineral (S1) eat or Peat	**Locat	Red Dep	ox Dark Surface (leted Dark Surface	F6) e (F7)
	Histosol (A1) Histic Epipedo Black Histic (A	on (A2) A3)	ation, D=Depleti	on, RM=Redu	Sandy M 5cm Mu Sandy C	Soil I Jucky cky P Sleyed	ndicators: Mineral (S1) eat or Peat Matrix (S4)	**Locat	Red Dep Red	ox Dark Surface (leted Dark Surfac ox Depressions (F	F6) e (F7) ^{F8})
	Histosol (A1) Histic Epipedo	on (A2) A3) fide (A4)	ation, D=Depleti	on, RM=Redu	Hydric Sandy M 5cm Mu	Soil I Jucky cky P Sleyed Redox	ndicators: Mineral (S1) Leat or Peat Matrix (S4) (S5)	**Locat	Red Dep Red Indicate	ox Dark Surface (leted Dark Surface	F6) e (F7) F8) Hydric Soils
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A	on (A2) A3) fide (A4) ers (A5) 10)		on, RM=Redu	Sandy M 5cm Mu Sandy C Sandy R Stripped Loamy M	Soil I Jucky cky P Sleyed Redox I Matr Mucky	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1)	**Locat	Red Dep Red Indicate Coa	ox Dark Surface (leted Dark Surface ox Depressions (F ox Problematic st Prairie Redox (-Manganese Mass	F6) e (F7) F8) Hydric Soils A16) ses (F12)
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf		on, RM=Redu	Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy G	Soil I Jucky cky P Sleyed Redox I Matr Mucky Gleye	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)	**Locat	Red Dep Red Indicate Coa Iron- Very	ox Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass r Shallow Dark Su	F6) e (F7) F8) Hydric Soils A16) ses (F12)
Restr	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	face (A11)	on, RM=Redu	Sandy M 5cm Mu Sandy C Sandy R Stripped Loamy M	Soil I Jucky cky P Sleyed Redox I Matr Mucky Gleye	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)	**Locat	Red Dep Red Indicate Coa	ox Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass r Shallow Dark Su	F6) e (F7) F8) Hydric Soils A16) ses (F12)
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	face (A11)		Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy G	Soil I Jucky cky P Sleyed Redox I Matr Mucky Gleye	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)		Red Dep Red Indicate Coa Iron- Very	ox Dark Surface (leted Dark Surfac ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass v Shallow Dark Su	F6) e (F7) F8) Hydric Soils A16) ses (F12)
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	face (A11)		Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy G	Soil I Jucky cky P Sleyed Redox I Matr Mucky Gleye	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)		Red Dep Red Indicate Coa Iron- Very Othe	ox Dark Surface (leted Dark Surfac ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass v Shallow Dark Su	F6) e (F7)
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed):	face (A11) Type: Depth (Inches)		Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy G	Soil I Jucky cky P Sleyed Redox I Matr Mucky Gleye	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)		Red Dep Red Indicate Coa Iron- Very Othe	ox Dark Surface (leted Dark Surfac ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass v Shallow Dark Su	F6) e (F7)
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sull Cictive Layer (if Remarks: ROLOGY	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin	face (A11) Type: Depth (Inches)	(check all th	Hydric Sandy M 5cm Mu Sandy G Sandy R Stripped Loamy M Loamy C Depleted	Soil I Mucky Cky P Gleyed Redox I Matr Mucky Gleyed d Matr	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre		Red Dep Red Indicate Coa Iron Very Othe Yes	ox Dark Surface (leted Dark Surface ox Depressions (Fors for Problematic ox Prairie Redox (Manganese Mass ox Shallow Dark Suer No	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12)
HYDR	Histosol (A1) Histic Epipede Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin r (A1)	face (A11) Type: Depth (Inches)	(check all th	Hydric Sandy M 5cm Mu Sandy G Sandy R Stripped Loamy M Loamy C Depleted	Soil I Mucky cky P Gleyec Redox Mucky Gleyec d Matr	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9)		Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Se	ox Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass y Shallow Dark Su er No ondary Indicator oil Cracks (B6)	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12)
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sull Cictive Layer (if Remarks: ROLOGY	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prim r (A1) able (A2)	face (A11) Type: Depth (Inches)	(check all the Water Aquat	Hydric Sandy M 5cm Mu Sandy G Sandy R Stripped Loamy M Loamy C Depleted	Soil I Mucky cky P Gleyed Redox I Matr Mucky Gleyed d Matr Leave (B13)	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9)		Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Se Drainage F Dry-Seaso	ox Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (-Manganese Mass y Shallow Dark Suer No ondary Indicator bil Cracks (B6) Patterns (B10) in Water Table (C	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12)
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks)	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) 8) (B1)	face (A11) Type: Depth (Inches)	(check all the Water Aquat True / Hydro	Hydric Sandy M 5cm Mu 5cm Mu Sandy R Sandy R Stripped Loamy M Loamy C Depleter at apply) r Stained ic Fauna Aquatic P gen Sulfi	Soil I Mucky cky P Gleyec Redox I Matr Mucky Gleyec d Matr Leave (B13) Plants de Oc	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9) (B14) dor (C1)		Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Se Drainage F Dry-Sease Crayfish B	ox Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (-Manganese Mass y Shallow Dark Suer No ondary Indicator oil Cracks (B6) Patterns (B10) on Water Table (C urrows (C8)	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prim r (A1) ab) (B1) oosits (B2)	face (A11) Type: Depth (Inches)	(check all the Water Aquat True Aquat Hydro Oxidiz	Hydric Sandy M Scm Mu Sandy R Sandy R Stripped Loamy M Loamy C Depleted at apply) T Stained Aquatic P gen Sulficed Rhizo	Soil I Mucky cky P Gleyec Redox I Matr Mucky Gleyec d Matr	ndicators: - Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) - Hydric Soil Prese es (B9)) (B14) dor (C1) res on Living Roots		Red Dep Red Indicato Coa Iron Very Othe Yes Sec Surface Si Drainage F Dry-Seaso Crayfish B Saturation	ox Dark Surface (leted Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (-Manganese Mass y Shallow Dark Suer No Ondary Indicator oil Cracks (B6) Patterns (B10) or Water Table (C urrows (C8) Visible on Aerial	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks)	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prim r (A1) able (A2) 3) (B1) oosits (B2) (B3)	face (A11) Type: Depth (Inches)	(check all the Water Aquat Hydro Oxidiz Prese	Hydric Sandy M Sandy R Sandy R Sandy R Stripped Loamy M Loamy C Depleted at apply) T Stained dic Fauna Aquatic P gen Sulfited Rhizo nce of Re	Soil I Mucky Mucky PGleyec Redox Green Material	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9) (B14) dor (C1)		Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	ox Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (-Manganese Mass y Shallow Dark Suer No ondary Indicator oil Cracks (B6) Patterns (B10) on Water Table (C urrows (C8)	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Suf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Suf ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) B) (B1) oosits (B2) (B3) crust (B4) (B5)	face (A11) Type: Depth (Inches) nary Indicators	(check all the Water Aquater True A Hydroid Prese Recerent Thin Market And Annual Prese Recerent Thin Market Annual Prese Recerent A	Hydric Sandy M 5cm Mu Sandy G Sandy R Stripped Loamy M Loamy C Depleted at apply) r Stained ic Fauna Aquatic P igen Sulfi ed Rhizo ince of Re the Iron Re Muck Surf	Soil I So	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7)	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	ox Dark Surface (leted Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass / Shallow Dark Suer No ondary Indicator oil Cracks (B6) - Patterns (B10) on Water Table (C urrows (C8) Visible on Aerial Stressed Plants (F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (A3	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) B) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aeria	face (A11) Type: Depth (Inches) nary Indicators	(check all the Water Aquater True / Hydro Oxidiz Prese Recer Thin Manager Guage	At apply at apply r Standa Aquatic P gen Sulfi zed Rhizo nice of Re Muck Surfe or Well	Soil I So	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7)	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	ox Dark Surface (leted Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass y Shallow Dark Surface No ondary Indicator Dil Cracks (B6) Patterns (B10) In Water Table (C urrows (C8) Visible on Aerial Stressed Plants (ic Position (D2)	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X
HYDF Wetla	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Suf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Suf ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) 8) (B1) cosits (B2) (B3) crust (B4) (B5) sible on Aeric etated Conce	face (A11) Type: Depth (Inches) nary Indicators al Imagery (B7) ave Surface	(check all the Water Aquater True A Hydroid Prese Recerent Thin Market And Annual Prese Recerent Thin Market Annual Prese Recerent A	At apply at apply r Standa Aquatic P gen Sulfi zed Rhizo nice of Re Muck Surle or Well	Soil I So	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7)	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	ox Dark Surface (leted Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (, -Manganese Mass y Shallow Dark Surface No Ondary Indicator Dil Cracks (B6) Patterns (B10) In Water Table (C urrows (C8) Visible on Aerial Stressed Plants (ic Position (D2)	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X
HYDF Wetla	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (A3	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prim r (A1) able (A2) B) (B1) osits (B2) (B3) crust (B4) (B5) sible on Aeric etated Conce Surface W Water Tab	al Imagery (B7) ave Surface ater Present?	Check all th Water Aquat True / Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes	At apply) To an Sundy Reserved to a sundy Reserved to a sundy Reserved to a sundary Res	Soil I Mucky Cky P Mucky Cky P Soll I Mucky Cky P Soll I Matr Mucky Gleyerd d Matr Mucky Gleyerd d Matr Mucky Gleyerd d Matr Mucky Cky Soll I Matr Matrix Cky Soll I Matr Matr Matrix Cky Soll I Matr Matr Matr Matr Matr Matr Matr Matr	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches) Depth (inches)	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Si Dray-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ox Dark Surface (leted Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (-Manganese Mass y Shallow Dark Surface No ondary Indicator	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X
HYDF Wetla	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sull ictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vego Observations:	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prim r (A1) able (A2) B) Grust (B4) (B5) sible on Aeric etated Conci- Surface W Water Tab Saturation	race (A11) Type: Depth (Inches) Check all th Water Aquat True Hydro Oxidiz Prese Recer Thin N Guagr Other Yes Yes Yes X	At apply The Aquatic Page Sundy R To any N T	Soil I Value	ndicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9)) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches)	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Se F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ox Dark Surface (leted Dark Surface (leted Dark Surface ox Depressions (F ors for Problematic st Prairie Redox (-Manganese Mass y Shallow Dark Surface No ondary Indicator	F6) e (F7) F8) Hydric Soils A16) ses (F12) rface (F12) X	

Site: Client	W. Lancaster-	-S. Baltimore	e-W. Millerspor	rt City/Co	ounty:		Fa	airfield County wnship, Range:	Date:	27 Marcl	h 2024 Da		62
Invest	tigator(s):	L. Vine, E.						Landform		oraines	Local Rel	lief C	Convex
Slope Soil M	e (%): Map Unit Name:	1-3 Centersbur		39.81139		Long		-82.608382°	Datum	NAD83	NWI Clas	3S:	N/A
00	Climatic/hydrolog	gic condition	ns typical for tin	ne of yea	ar?	Y/N	Υ						
	Vegetation Vegetation		_ , Soil _ , Soil			/drology /drology		significantly disturbed naturally problematic					
	Iormal Circumst	ances Prese		Yes	Х		' <u> </u>						
SUMI	MARY OF FIND Hydro	phytic Vege	etation Present	? Yes	Х	No							
	•	Hydri	ic Soil Present?	? Yes		No	X	= - -			a Wetland?	?	
	VV	letland Hydi	Irology Present?	? Yes	Х	No			Yes	No	Х		
VEGE	ETATION			11: a a li	. 0/	200							
Tree :	Stratum_	Plot size:	30'	Absolu Cov			ninant ecies	Indicator Status	s				
1.							50100				minance Te		heet
2. 3.								- 			f dominant s		2
3. 4.								_		Total num	BL, FACW, ber of domin	or FAC. nant	4
5.				0		Total (2-1/25			species ac	cross all stra f dominant s	ata:	
Shrub	Stratum_	Plot size:	15'			Total (BL, FACW,		50.00
1.	Cornus racem			50)		Υ	FAC	3	Prevalenc	ce Índex Wo	-	
2. 3.	-									OBL speci	% cover <u>of:</u> ies	1 x 1	1
4.										FACW spe	ecies	10 x 2	20
5.				50	<u> </u>	Total (Cover			FAC speci FACU spe		50 x 3 20 x 4	150 80
	Stratum	Plot size:			_	_ 10161.				UPL speci	ies	5 x 5	25
1. 2.	Schedonorus Symphyotricht			20 10			Y	_ <u>FACU</u> FACW	2	Tota		<u>86</u> ence Index	276 C 3.21
3.	Brassica rapa		<u>um</u>	5			N	UPL		Hydrophy	tic Vegetat	ion Indica	ators:
4.										Rap	oid Test for F	Hydrophyti	c Veg.
5. 6.											ninance Tes valence Inde		,
7.								- 		Mor	phological A	Adaptation:	s*
8.				35	5	Total (Cover				lematic Hydro	. , .	
	dy Vine Stratum	Plot size:	30'	-	-						logy must be		
1. 2.						_		_		,	disturbed or		
				0		Total (Cover				phytic Vege		esent?
SOIL	Remarks:	<u> </u>								Yes	X No	<u>) </u>	
<u> </u>				oe to der	oth ne	eded t	o docu	ument the indicator or		n absence	of indicato	rs.)	
	Depth (inches)	Color	Matrix %	Colo	or	%	Type	Redox Featu	ires Text	ture	Remar	rks	-
	0-14	10YR 4/3	100	+	<u>J.</u>			, 100	Si	iL		10	
	14-18	10YR 4/4	100			-	+-		SiC	CL			_
		<u> </u>					<u> </u>						-
	*Type· C	`-Concentra	otion D-Denle	tion RM-	Pedu	iced Ms	atriv C!	S=Coated Sand grains	**I ocat	tion: PI =Pc	ore Lining, M	1-Matrix	
		/=C0110611116	IIIOII, DEDEDICI	1011, 13141-	Neuu	Hydri	c Soil I	Indicators:	LUCAL		<u> </u>		
	Histosol (A1) Histic Epipedo	~ (A2)		=				/ Mineral (S1) Peat or Peat			lox Dark Sur bleted Dark S		/ح
	Black Histic (A			-		Sandy	Gleye	d Matrix (S4)	-		lox Depress		7)
	Hydrogen Sulf			_			Redox		-		ors for Proble		
	Stratified Laye 2 cm Muck (A			-				rix (S6) y Mineral (F1)			ast Prairie Re -Manganese		
	Depleted Belo	ow Dark Surf	` '	_		Loamy	y Gleye	ed Matrix (F2)	-	Very	y Shallow Da		
Destr	Thick Dark Surictive Layer (if					Deplet	ed Mat	trix (F3)		Othe	er		
Kesu	ICtive Layer (ii	Observeu).	Depth (Inches	s):				Hydric Soil Pre	esent?	Yes	. No	о Х	
	Remarks: ROLOGY												
	and Hydrology												
		Prin	nary Indicators					(DO)	\blacksquare		ondary Ind		
	Surface Water High Water Ta					r Staine tic Faun		ves (B9) 3)		Drainage I	oil Cracks (E Patterns (B1	36) 10)	
Χ	Saturation (A3	3) `´´		7	True A	Aquatic	Plants	(B14)		Dry-Seaso	on Water Ta	able (C2)	
	Water Marks (Sediment Dep							dor (C1) eres on Living Roots			Burrows (C8)		gery (C9)
	Drift Deposits	(B3) ` ´		F	Prese	ence of	Reduce	ed Iron (C4)		Stunted or	r Stressed P	Plants (D1)	
	Algal Mat or C					nt Iron F Muck Si		ion in Tilled Soil (C6)			nic Position ral Test (D5		
			ial Imagery (B7)			e or We				I AC-Neut	iai iesi (D3	,	
	Sparsely Vege	etated Conc			Other			Donath (in all an)					
	<u> </u>	0(\ \ \ \ \ \ \											
Field	Observations:			Yes Yes	X	No No	Х	Depth (inches) 7 Depth (inches)	Hydrol	lov Indicat	ors Presen	t?	
		Water Tab Saturation	ole Present? Present?	Yes Yes	X X	No No		7 Depth (inches) 7 Depth (inches) 7 Depth (inches) 7 ious inspections), if avai	Ī	loy Indicat Yes	tors Presen		

Client:	W. Lancast	er-S. Baltimor	C VV. Willicisport	State: OH		airfield County wnship, Range:	_Date:		S1, T 15N, 1	Point: 59
Investi	igator(s):	L. Vine, E.	.Holt			Landform		oraines	Local Relief	Convex
Slope Soil Ma		1-3 ne: Centersbu	_Lat. 39 irg silt loam, 2 to	9.806567° 6 percent slo	Long pes	-82.612869°	_Datum	NAD83	NWI Class:	N/A
CI	limatic/hydro	ologic condition	ns typical for time	e of year?	Y/N Y					
	Vegetati Vegetati			N or Hy N or Hy		significantly disturbed naturally problematic				
	ormal Circum	nstances Prese		es x						
SUMM	IARY OF FII Hvo		etation Present?	Ves	No X		T			
	, .	Hydri	ic Soil Present?	Yes	No X	_			a Wetland?	
		Wetland Hyd	rology Present?	Yes	No X		Yes	No	Х	
VEGE	TATION									
Tree S	Stratum	Plot size:	30'	Absolute % Cover	Dominant Species	Indicator Statu	IS			
1.				Covei	Species			Don	ninance Test	Worksheet
2.					-	_		Number of	dominant spe	ecies
3. 4.					-	_		that are Or Total numb	BL, FACW, or per of dominar	FAC:
5.						_		species ac	ross all strata:	. <u> </u>
Shrub	Stratum	Plot size:	15'	0	Total Cover				dominant spe BL, FACW, or	4()()()
1.	Rubus alleg	gheniensis		10	<u> </u>	FACU	4	Prevalenc	e Index Work	
2. 3.	Mentha X ro	otundifolia		10	Y	FAC	3	Total % OBL speci	% cover <u>of:</u>	
4.					<u> </u>			FACW spe	ecies C	0 x 2 0
5.				20	Tetal Cover	_		FAC speci	es 30) x 3 90
Herb S	Stratum	Plot size:	5'	20	Total Cover			FACU species) x 4 <u>240</u>) x 5 0
1.	Setaria fabe	əri		30	<u> </u>	FACU	4	Tota	al <u>91</u>	331
	Allium cana	idense cannabinum		20 20	- <u> </u>	FACU FAC	3	 Hvdrophy	Prevalenc tic Vegetation	
4.	71,000,	Juli 11 (20.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					ŭ	Rapi	id Test for Hyd	drophytic Veg.
5. 6.									ninance Test is valence Index i	
7.								Morr	ohological Ada	aptations*
8.				70	Total Cover				lematic Hydrophy	
Woody	√ Vine Stratu	ım_ Plot size:	30'		_ lotal Cove				•	oil and wetland
1.						_		,	ogy must be pli isturbed or pro	resent, unless
2.								• u		Dicinatio
۷.				0	Total Cover					tion Present?
F	Remarks:			0	Total Cover				ohytic Vegeta	
		rofile Descrip	otion: (Describe			ument the indicator or	confirn	Hydror Yes	ohytic Vegeta No	tion Present? X
F	P Depth	Ī	Matrix	e to depth ne	eeded to doc	ument the indicator or Redox Featu	ıres	Hydrop Yes n absence	ohytic Vegeta No of indicators.	tion Present? X
F	Depth (inches)	Color	Matrix %		eeded to doc			Hydrop Yes n absence	ohytic Vegeta No	tion Present? X
F	P Depth	Ī	Matrix %	e to depth ne	eeded to doc	Redox Feat	ures Text	Hydrop Yes n absence	ohytic Vegeta No of indicators.	tion Present? X
F	Depth (inches)	Color	Matrix %	e to depth ne	eeded to doc	Redox Feat	ures Text	Hydrop Yes n absence	ohytic Vegeta No of indicators.	tion Present? X
F	Depth (inches) 0-18	Color 10YR 4/3	Matrix %	e to depth ne	% Typ	e* Loc**	res Text Si	Hydrop Yes n absence	ohytic Vegeta No of indicators. Remarks	ation Present? X
F	Depth (inches) 0-18	Color 10YR 4/3	Matrix %	e to depth ne	% Typ	Redox Feature* Loc** S=Coated Sand grains S=Coated Sand grain S=Coated S	res Text Si	Hydrop Yes n absence	ohytic Vegeta No of indicators.	ation Present? X
SOIL.	Depth (inches) 0-18 *Type	Color 10YR 4/3	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck	Redox Feature* Example Content	res Text Si	Hydrop Yes n absence ture ii.	ohytic Vegeta No of indicators. Remarks are Lining, M=No ox Dark Surface	Matrix ce (F6)
SOIL.	Depth (inches) 0-18 *Type Histosol (A' Histic Epipe	Color 10YR 4/3 :: C=Concentra	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky	Redox Feature* Example Second Se	res Text Si	Hydrop Yes n absence ture iiL tion: PL=Po Red Depi	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surface leted Dark Sur	Matrix ce (F6) rface (F7)
SOIL.	Depth (inches) 0-18 *Type	Color 10YR 4/3 :: C=Concentra 1) edon (A2) : (A3)	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4)	res Text Si	Hydrop Yes n absence ture iii tion: PL=Po Red Depp Red	ohytic Vegeta No of indicators. Remarks re Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface	Matrix ce (F6) rface (F7)
F SOIL	P Depth (inches) 0-18 *Type Histosol (A* Histic Epipe Black Histic Hydrogen S Stratified La	Color 10YR 4/3 :: C=Concentra i) edon (A2) :: (A3) sulfide (A4) ayers (A5)	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky 5andy Gleye Sandy Redo Stripped Ma	Redox Feature* Example Redox Feature	res Text Si	Hydrop Yes n absence ture tion: PL=Po Red Depi Red Indicato Coa:	of indicators. Remarks Tre Lining, M=N OX Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16)
F SOIL	PDepth (inches) 0-18 *Type Histosol (A* Histic Epiper Black Histic Hydrogen S Stratified La* 2 cm Muck	Color 10YR 4/3 :: C=Concentra i) edon (A2) c: (A3) gulfide (A4) ayers (A5) (A10)	Matrix %	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat of Matrix (S4) x (S5) trix (S6) ty Mineral (F1)	res Text Si	Hydron Yes In absence ture tion: PL=Po Red Depp Red Indicato Coac Iron-	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface rox Depression ors for Problema st Prairie Redce Manganese N	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12)
F SOIL	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Gulfide (A4) Bayers (A5) (A10) elow Dark Surface (A12)	Matrix % ### State of the content o	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat of Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	res Text Si	Hydron Yes In absence ture tion: PL=Po Red Depp Red Indicato Coac Iron-	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface st Prairie Redce Manganese No or Shallow Dark	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16)
F SOIL	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 :: C=Concentra () c (A3) Sulfide (A4) sayers (A5) (A10) elow Dark Surf	Matrix % ation, D=Depletion face (A11) : Type:	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gleye	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4) x (S5) trix (S6) try Mineral (F1) ed Matrix (F2) trix (F3)	**Locat	Hydrop Yes n absence ture tion: PL=Po Red Depi Red Indicate Coa: Iron- Very Othe	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) as (F8) atic Hydric Soils ox (A16) Masses (F12) c Surface (F12)
F SOIL Restric	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Bo Thick Dark ctive Layer Remarks:	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Gulfide (A4) Bayers (A5) (A10) elow Dark Surface (A12)	Matrix % ### State of the content o	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gleye	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat of Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	**Locat	Hydrop Yes n absence ture iii iiiiiiiiiiiiiiiiiiiiiiiiiiiiii	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12)
Restric	*Type #Type #Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY	Color 10YR 4/3 :: C=Concentra i) edon (A2) :: (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed):	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gleye	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4) x (S5) trix (S6) try Mineral (F1) ed Matrix (F2) trix (F3)	**Locat	Hydrop Yes n absence ture tion: PL=Po Red Depi Red Indicate Coa: Iron- Very Othe	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) as (F8) atic Hydric Soils ox (A16) Masses (F12) c Surface (F12)
Restric	*Type #Type #Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY	Color 10YR 4/3 10YR 4/3 10YR 4/3 10YR 4/3 11 10 11 11 12 13 14 15 16 17 17 18 18 18 18 18 18 18 18	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gley	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4) x (S5) trix (S6) try Mineral (F1) ed Matrix (F2) trix (F3)	**Locat	Hydrop Yes n absence ture tion: PL=Po Red Depl Red Indicate Coae Iron Very Othe Yes	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) s (F8) at Hydric Soils ox (A16) Masses (F12) x X
Restrice F HYDRO Wetlan	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark Ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Gulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): gy Indicators: Prin ater (A1)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	c to depth ne Color Color On, RM=Redu (check all th Water	meded to doc % Typ white the control of the contr	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) trix (F3) Hydric Soil Pr	**Locat	Hydrop Yes n absence ture tion: PL=Po Redd Depp Redd Indicato Coas Iron Very Othe Yes Sec Surface So	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problem ast Prairie Redo Manganese N ox Shallow Dark er No ondary Indica oil Cracks (B6)	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) X attors
Restrice F HYDRO Wetlan	*Type Histosol (Af-Histic Epipe Black Histic Hydrogen S-Stratified La-Z cm Muck Depleted Brank Ctive Layer Remarks: OLOGY nd Hydrolog	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): Prin ater (A1) Table (A2)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	c to depth ne Color Color On, RM=Redu (check all the Water Aquati	eeded to doc % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrop Yes n absence ture tion: PL=Po Redd Depl Redd Indicato Coa: Iron Very Othe Yes Sec Surface Sc Drainage F	ohytic Vegeta No of indicators. Remarks Tre Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) s (F8) atic Hydric Soils ox (A16) Masses (F12) X Ators
Restric F HYDR	*Type Aistosol (A' Histic Epipe Black Histic Hydrogen Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY Ind Hydrolog Surface Walth Water Saturation (Water Mark	Color 10YR 4/3 : C=Concentra 1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): Prin ater (A1) Table (A2) A3) is (B1)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	check all the Water Aquati Hydro	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) ty Mineral (F1) ed Matrix (F2) ttrix (F3) Hydric Soil Pr ves (B9) 3) 6 (B14) Odor (C1)	**Locat	Hydrof Yes In absence Iture ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surface leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) attic Hydric Soils ox (A16) Masses (F12) x x attors e (C2)	
Restric F HYDR	PDepth (inches) 0-18 *Type Histosol (A'Histic Epipe Black Histic Hydrogen Stratified Lazer Muck Depleted Bothick Dark Ctive Layer Remarks: OLOGY and Hydrolog Surface Walter Mark Sediment Depth Sedim	Color 10YR 4/3 Color 10YR 4/3 CE-Concentra (A) Eddon (A2) (A3) Sulfide (A4) Edgy Indicators: Prin Stater (A1) Table (A2) A3) State (B1) Deposits (B2)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	check all the Water Aquater True A Hydro Oxidiz	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) ty Mineral (F1) ed Matrix (F2) ttrix (F3) Hydric Soil Pr ves (B9) 3) s (B14) dor (C1) eres on Living Roots	**Locat	Hydrop Yes n absence ture tion: PL=Po Redd Depl Redd Indicate Coas Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation	ohytic Vegeta No of indicators. Remarks The Lining, M=No ox Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) s (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9)
Restric F HYDRO Wetlar	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark Ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat o	Color 10YR 4/3 10YR 4/3 11 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 18 C=Concentra 19 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 18 C=Concentra 19 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 17 C=Concentra 18 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 16 C=Concentra 17 C=Concentra 17 C=Concentra 18 C=Concentra 18 C=Concentra 19 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 17 C=Concentra 18 C=Concentra 10 C	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	cto depth ne	meded to doc % Typ	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrof Yes n absence ture tion: PL=Po Redd Depi Redd Indicato Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ohytic Vegeta No of indicators. Remarks The Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlar	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat o Iron Deposi	Color 10YR 4/3 : C=Concentra 1) edon (A2) : (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): rable (A2) A3) is (B1) is (B3) r Crust (B4) ts (B5)	Matrix % ation, D=Depletion face (A11) Type: Depth (Inches): mary Indicators	cto depth ne	meded to doc % Typ % Typ loced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma at apply) T Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C ted Rhizosph nce of Reduc t Iron Reduc Muck Surface	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrof Yes n absence ture tion: PL=Po Redd Depi Redd Indicato Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ohytic Vegeta No of indicators. Remarks Pre Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlan	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation	Color 10YR 4/3 : C=Concentra 1) edon (A2) : (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): rable (A2) A3) is (B1) is (B3) r Crust (B4) ts (B5)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches): mary Indicators	cto depth ne	ced Matrix, C Hydric Soil Sandy Muck Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma Total Aquatic Plant Igen Sulfide C ted Rhizosph nce of Reduc Muck Surface e or Well Dat	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrof Yes n absence ture tion: PL=Po Redd Depi Redd Indicato Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ohytic Vegeta No of indicators. Remarks The Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlan	*Type *Type *Type *Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY Ind Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation (Sparsely Ve	Color 10YR 4/3 Color 10YR 4/3 CE-Concentra (i) edon (A2) (A3) (ulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): Prin ater (A1) Table (A2) (A3) (A3) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	face (A11) : Type: Depth (Inches): nary Indicators ial Imagery (B7) cave Surface (ater Present?	check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes	ceded to doc % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma at apply) r Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C ted Rhizosph nce of Reduc Muck Surface e or Well Dat	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4) x (S5) trix (S6) ty Mineral (F1) ed Matrix (F2) ttrix (F3) Hydric Soil Pr Wes (B9) 3) s (B14) Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9) Depth (inches)	esent?	Hydrof Yes n absence ture tion: PL=Po Red Depl Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact story Problems st Prairie Redc Manganese N ondary Indica Dark Surfact leter No ondary Indica Dark Surfact No ondary Indi	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlan	*Type *Type *Type *Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY Ind Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation (Sparsely Ve	Color 10YR 4/3 Color 10YR 4/3 CE-Concentra (i) edon (A2) (A3) (ulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): Prin ater (A1) Table (A2) (A3) (A3) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Matrix % face (A11) : Type: Depth (Inches): nary Indicators fater Present? le Present?	check all the Water Aquati True A Hydro Oxidiz Preser Recer Thin M Guage Other	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma at apply) T Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C ted Rhizosph ince of Reduc fuck Surface e or Well Dat	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4) x (S5) trix (S6) trix (S6) trix (F3) Hydric Soil Pr Wes (B9) 3) S (B14) Odor (C1) teres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	esent?	Hydrof Yes n absence ture tion: PL=Po Red Depl Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact set Prairie Redc Manganese N or Shallow Dark leter No ondary Indica oil Cracks (B6) Patterns (B10) In Water Table urrows (C8) Visible on Aer Stressed Plar ic Position (D2 al Test (D5) ors Present?	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)

Client: Invest Slope Soil M C	tigator(s): (%): Iap Unit Name: Climatic/hydrolo Vegetatior Vegetatior ormal Circumsi	AEP N. Houk, N 1-3 Benningtor gic conditior N N tances Prese	I. Barnett Lat. n silt loam, 0 tons typical for tin, Soil , Soil	State 39.803 2 perc	: OH 787 ent slop ear? or Hy	Long. es Y/N drology	on, Tov	airifeld County vnship, Range: Landforr -82.615001 significantly disturbed naturally problematic	m M Datum	27 March Sec oraines NAD83	2024 Data P S2, T 15N, R 19 Local Relief NWI Class:	oint: 9W Conv N/A	
SUMIN	-	ophytic Vege Hydri	etation Present' ic Soil Present' rology Present'	? Yes		No No No	Х Х Х	_	Is the Yes	DP within a	a Wetland?		
Rema	ırks:	veliana riyu	ology i resent	168		INO	X		162	NO			
VEGE	TATION			Δhsc	olute %	Don	ninant						
1. 2. 3. 4. 5.		Plot size:			over		ecies	Indicator Stat	us	Number of that are OE Total numb	ninance Test W dominant spec BL, FACW, or F per of dominant ross all strata:	es	1 2
	Stratum	Plot size:	15'		0	Total C	Cover			Percent of that are OF Prevalence	dominant speci BL, FACW, or F e Index Works 6 cover of: es cies 0 50	AC: _	50.00 0 100 0
	Stratum Elymus virgin Brassica napu Setaria faberi Lamium purpu Taraxacum oi	us ureum	5'		0 50 20 15 10 5		Y Y N N	FACW UPL FACU UPL FACU	2 5 4 5 4	FACU species UPL species Tota Hydrophyt Rapi Dom Prev Morp	cies 20 30 1 100 Prevalence ic Vegetation of Test for Hydrinance Test is alence Index is bhological Adap	x 4 x 5 Index: Indicator ophytic V >50% ≤3.0* tations*	80 150 330 3.30 ss: eg.
1. 2.	ly Vine Stratum	_ Plot size:	30'	1	0	Total C				*Indicate hydrolo di	ematic Hydrophyti ors of hydric so ogy must be pre sturbed or prob ohytic Vegetati No	I and wet sent, unli lematic	tland ess
SOIL	Pro	file Descrip	tion: (Descri	oe to d	epth ne	eded t	o docı	ment the indicator o	r confirn	n absence	of indicators.)		
	Depth		Matrix		-			Redox Feat	tures		•		
	(inches)	Color	%	С	olor	%	Турє	e* Loc**		ture	Remarks		
	0-4 4-18	10YR 3/4 10YR 4/3	100 100							CL CL			
	4-10	10111 4/3	100						51 (
	*Type: (C=Concentra	tion, D=Deplet	ion, RN	/I=Redu			S=Coated Sand grains	**Loca	tion: PL=Po	re Lining, M=Ma	atrix	
	Histosol (A1)							ndicators: Mineral (S1)		Redo	ox Dark Surface	(F6)	
	Histic Epipedo Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo	A3) fide (A4) ers (A5) a10) ow Dark Surf				5cm M Sandy Sandy Strippe Loamy Loamy	lucky É Gleyed Redox ed Matr Mucky Gleye	eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas Iron- Very	eted Dark Surfa ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark S	ace (F7) (F8) ic Hydric ((A16) sses (F1	2)
Doctri	Thick Dark Suictive Layer (if					Deplet	ed Mat	rix (F3)		Othe	r		
เงองแ	.ouve Layer (II	Justi veu).	Depth (Inches):				Hydric Soil P	resent?	Yes	No	x	
	Remarks:		•	•				•					
	ROLOGY and Hydrology	Indicators:											
Wella	ilia Hyarology		nary Indicators	s (chec	k all th	at appl	v)			Seco	ondary Indicate	ors	
	Sparsely Veg	er (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc	al Imagery (B7 ave Surface		Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Staine ic Faun Aquatic gen Su ed Rhiz nce of I nt Iron F Juck Su e or We	d Leav a (B13 Plants Ifide Oo zosphe Reducti Irface ((B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	oil Cracks (B6) Patterns (B10) In Water Table (Irrows (C8) Visible on Aeria Stressed Plant Ic Position (D2) Id Test (D5)	C2) al Imager	y (C9)
Field	Observations			Yes		No	Х	Depth (inches)	Libraria	المايدة	Dr		
		Saturation		Yes Yes		No No	X X	Depth (inches) Depth (inches)	-	loy Indicato Yes	ors Present? No	x	
Descr	ibe Recorded I	Data (stream	guage, monito	oring we	ell, aeria	al photo	s, prev	ious inspections), if av	ailable:				

Client: Invest Slope Soil M C	igator(s): (%): lap Unit Name: limatic/hydrolo Vegetation Vegetation	AEP N. Houk, N 1-3 Centersburgic condition N N	I. Barnett Lat. rg silt loam, 2 to the typical for time, Soil , Soil	39.796 o 6 per ne of ye N	: OH 059 cent slo ear? or Hy or Hy	Long. pes, ero Y/N drology drology	ded Y N	irfield County /nship, Range: Landform -82.620611 significantly disturbed naturally problematic	n <u>M</u> Datum		2024 Data 311, T 15N, F Local Relie NWI Class:	19W C	52 onvex N/A
	ormal Circumst MARY OF FIND Hydro	INGS	ent? tation Present	Yes ? Yes	X	No No	Х	-					1
	W	Hydri	c Soil Present rology Present	? Yes		No No	X	-	Is the Yes	DP within a	Wetland?		
Rema VFGF	rks: TATION												
	Stratum	Plot size:			olute % over	Spe		Indicator Statu	ıs	Number of	ninance Test dominant spo BL, FACW, or er of domina	ecies	neet 1 3
5. <u>Shrub</u> 1. 2.	Stratum Rubus alleghe	Plot size: eniensis	15'		0	Total C	over	FACU	4	Percent of that are OF Prevalence	ross all strata dominant spe BL, FACW, or e Index Worl 6 cover of:	cies FAC:	33.33
3. 4. 5.					20	Total C	over			OBL specie FACW specie FAC specie FACU specie	es 5 cies 5 es 6	x 1 x 2 x 3 x 4	0 100 0 260
1. 2. 3. 4. 5. 6. 7.	Stratum Carex vulpino Schedonorus Cyperus escu Symphyotrich Daucus carota	arundinaceu Ilentus um ericoide:	JS S		40 35 10 10 5	\	1	FACW FACU FACU UPL	2 4 2 4 5	Rapi Dom Prev Morp	Prevalence ic Vegetation d Test for Hy inance Test i alence Index hological Ad-	te Index Indicate Indica	tors: c Veg.
1. 2.	y Vine Stratum	Plot size:	30'	1	0	Total C				*Indicato hydrolo di	ematic Hydrophors of hydric sogy must be psturbed or prohytic Vegeta	soil and resent, oblemati	wetland unless c
SOIL													
	Depth Pro		ition: (Descri Matrix	be to d	epth ne	eded to	docu	ment the indicator or Redox Feat		n absence	of indicators	.)	
	(inches)	Color	%	С	olor	%	Туре	* Loc**	Text		Remarks		
	0-14	10YR 4/1	100	40)	/D F/0	-			Si (-			
	14-18	10YR 4/1	95	101	'R 5/6	5	С	M	Si (J L			_
	*Type: C	C=Concentra	ation, D=Deple	tion, RN	∕l=Redu			=Coated Sand grains	**Locat	tion: PL=Po	re Lining, M=	Matrix	
	Histosol (A1) Histic Epipedo Black Histic (A					Sandy I 5cm Mu	Ииску icky Р	ndicators: Mineral (S1) eat or Peat I Matrix (S4)		Depl	ox Dark Surfa eted Dark Su ox Depression	rface (É	7)
	Hydrogen Sulta Stratified Laye 2 cm Muck (A Depleted Belo	fide (A4) ers (A5) .10) ow Dark Surf				Sandy I Stripped Loamy Loamy	Reďox d Matri Mucky Gleyed	(S5) ix (S6) Mineral (F1) d Matrix (F2)		Indicato Coas Iron- Very	rs for Problem at Prairie Red Manganese M Shallow Darl	atic Hydi ox (A16) //asses () (F12)
Restri	Thick Dark Suictive Layer (if		Type:	. ———		Deplete	d Mati			Othe			
	Remarks:		Depth (Inches	5):				Hydric Soil Pr	esent?	Yes	No	Х	
HYDR	OLOGY												
Wetla	nd Hydrology			- /-b	l. all 4b	-4				Care			
	Sparsely Vege	r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conc			Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained Stained Fauna Aquatic Fauna Sulf gen Sulf ed Rhizonce of Route Fauna Route Sulf e or Wel	Leave (B13) Plants ide Ocospher educe eduction face ((B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seaso Crayfish Bu Saturation Stunted or Geomorphi	ondary Indication (B10) atterns (B10) atterns (B10) arrows (C8) Visible on Ae Stressed Place Position (Dal Test (D5)) e (C2) rial Imaç nts (D1)	gery (C9)
	Observations: ibe Recorded D	Water Tab Saturation	le Present? Present?	Yes Yes Yes oring we	ell, aeria	No No No Il photos	x x x , previ	Depth (inches) Depth (inches) Depth (inches) ous inspections), if ava		loy Indicato Yes	ors Present? No	х	

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumst	AEP N. Houk, N 1-3 Amanda si gic condition N N ances Prese	I. Barnett Lat. It loam, 2 to 6 as typical for ti , Soil , Soil	State 39.794 percent	: OH 865 slopes ear? or Hy	Long. , eroded Y/N rdrology rdrology	1 Y N	rnship, Range: Landfo -82.621345 significantly disturbe naturally problemati	Datum ed		n 2024 <u>Data Po</u> S11, T 15N, R 19 <u>Local Relief</u> NWI Class: _	
SUMM	-	phytic Vege Hydri	tation Presen c Soil Presen rology Presen	t? Yes	X	No No No	X	<u> </u>	Is the Yes	DP within	a Wetland?	
Remar	ks:	reliand riyul	ology i resem	: 168		INO	X		ites	NO	^	
VEGE	TATION			Abco	lute %	Dom	inant					
1. 2. 3. 4.		Plot size:			over		ecies	Indicator Sta	atus	Number of that are O Total num	minance Test Wo dominant specie BL, FACW, or FA ber of dominant	s o
5.					0	Total C	over			species ac Percent of	ross all strata: dominant specie	s
1. 2. 3. 4.	Stratum Rubus occend	Plot size: dentalis	15'		10	,		UPL	5	that are O Prevalence Total O OBL speci FACW spe	BL, FACW, or FA ce Index Worksh % cover of: es	C: 0.00 eet 0.00 c 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.	Stratum Bromus inerm		5'		10 30 30	Total C	over	FACU FACU	4	FAC speci FACU speci UPL speci Tota	cies <u>95</u> x es <u>10</u> x	380 5 5 430
3. 4. 5. 6. 7.	Setaria faberi Solidago cana Allium vineale	adensis			30 30 5		Y N	FACU FACU FACU	4 4 4	Rap Dom Prev Mor	tic Vegetation In id Test for Hydror in ance Test is >5 /alence Index is ≤ phological Adapta lematic Hydrophytic	dicators: bhytic Veg. 50% 3.0* ations*
8. <u>Woody</u> 1. 2.	/ Vine Stratum	Plot size:	30'		95	Total C				*Indicat hydrol d	cors of hydric soil ogy must be pres isturbed or proble phytic Vegetatio	and wetland ent, unless ematic
	Remarks:					. 014. 0				Yes		x
SOIL	Pro	file Descrin	tion: (Descr	ihe to d	enth ne	eded to	docu	ment the indicator	or confirm	n absence	of indicators)	
	Depth	Ī.	Matrix		•			Redox Fe	atures		•	
	(inches) 0-18	Color 10YR 4/1	% 95		olor 'R 5/6	5	C	* Loc** M		ture i L	Remarks	
	*Type: C	=Concentra	ation, D=Deple	etion, RN	/I=Redu			=Coated Sand grain ndicators:	s **Loca	tion: PL=Pc	ore Lining, M=Mat	rix
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A	A3) fide (A4) ers (A5) 10)				Sandy 5cm M Sandy Sandy Strippe Loamy	Mucky ucky P Gleyed Redox d Matri Mucky	Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1)		Dep Red Indicate Coa	ox Dark Surface (leted Dark Surface ox Depressions (leaders for Problematic st Prairie Redox (-Manganese Mas	e (F7) F8) Hydric Soils (A16) ses (F12)
	Depleted Belo Thick Dark Su				X	Loamy	Gleyed ad Mati	d Matrix (F2)		Very Othe	∕ Shallow Dark Sι ar	urface (F12)
Restri	ctive Layer (if	observed):	Type:	,		Dopict	Ja Mati					
-	Remarks:		Depth (Inche	s):				Hydric Soil	Present?	Yes	x No	
HYDR	OLOGY											
Wetlar	nd Hydrology						,					
	Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege	r (A1) able (A2) b) (B1) sosits (B2) (B3) crust (B4) (B5) sible on Aerie	ave Surface	7)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained Stained Stained Aquatic Gen Sul Stained Rhiz nce of Fort Iron Ruck Sue or We	d Leave a (B13) Plants fide Oc cospher Reduce reduction	(B14) lor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ondary Indicator bil Cracks (B6) Patterns (B10) on Water Table (Courrows (C8) Visible on Aerial Stressed Plants bic Position (D2) ral Test (D5)	(2) Imagery (C9)
	Observations: be Recorded D	Water Table Saturation	le Present? Present?	Yes Yes Yes oring we	ell, aeria	No No No al photos	x x x s, previ	Depth (inches) Depth (inches) Depth (inches) ous inspections), if a		loy Indicat Yes	ors Present? No	x

Hydric Vegetation Present? Yes	Client: Investi Slope Soil M C	: igator(s): (%): lap Unit Name:	AEP N. Houk, N 1-3 Amanda sil gic condition N N tances Prese	Lat. 3 ilty clay loam, 6 ns typical for tim , Soil 1 , Soil	State: OH 39.789262 to 12 percent ne of year? N or Hy	Long. t slopes, Y/N ydrology ydrology	severe Y N	Landforn -82.623285	m Til Datum		2024 Data 511, T 15N, R Local Relief NWI Class:	19W Co	nvex N/A
Remarks: VecGETATION Tree Stratum Plot size: 30' Cover Species Number of dominant species Strub Stratum Plot size: 30' Total Cover Species Number of dominant species Strub Stratum Plot size: 15	<u> </u>	Hydro	phytic Vege Hydri	ic Soil Present?	Yes	No	Х	- - -					
Absolute % Dominant Indicator Status Dominant Cover Species Species Cover Species Cover		rks:	Chana i iya.	ology i roccii	169	INU			1169	110			
Interest and the process of the pr	VEGE	TATION			Absolute %	Dom	inant			_ T			
Shrub Stratum Plot size: 15	1. 2. 3. 4.		-		Cover	Spec	cies		us	Number of that are OB Total numb	dominant spe BL, FACW, or per of dominan	cies FAC: nt	0
A	<u>Shrub</u> 1. 2.	Stratum Rhus typhina	Plot size:	15'		_		UPL	5	Percent of one that are OB Prevalence Total %	dominant spe BL, FACW, or e Index Work 6 cover of:	cies FAC: sheet	
1. Solidago canadensis	4. 5.				2	Total C	over			FACW species FAC species	cies 0 es 0 cies 95	x 2 x 3 x 4	0 0 380 35
8.	1. 2. 3. 4. 5. 6.	Solidago cana Schedonorus a Setaria faberi Daucus carota	adensis arundinaceu a	us	30 25		Y Y	FACU FACU	4	Hydrophyt Rapid Domi	Prevalence ic Vegetation d Test for Hydinance Test is alence Index is bhological Ada	e Index: Indicat Irophytic >50% s <3.0* ptations	415 4.07 ors: Veg.
Profile Description: (Describe to depth needed to document the Indicator or confirm absence of Indicators.)	8. <u>Woodv</u> 1.					- 				*Indicate hydrolo	ematic Hydrophy ors of hydric so ogy must be po sturbed or pro	rtic Vegeta oil and w resent, u blematic	ation* vetland inless
Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.)		Remarks:				10tai Ot	ovei						Sent
Depth			27 De santu	· · · /Danawith	1 denath w		1	t the leadens	61	•			
(inches) Color % Color % Type* Loc** Texture Remarks 0-18 10YR 4/3 100						jeaea to	docu			n absence c	of indicators.)	ı
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Sandy Mucky Mineral (S1) Black Histic (A3) Black Histic (A3) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Bla		(inches)	Color	%	Color	%	Type'		Tex		Remarks		
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Sandy Mucky Mineral (S1) Black Histic (A3) Black Histic (A3) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Bla													
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Sandy Mucky Mineral (S1) Black Histic (A3) Black Histic (A3) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Bla		*Type: (`-Concentra	ation D=Depleti	on RM=Redu	rced Mat	riv CS	Coated Sand grains	**! oca	tion: PI =Por	re Lining M=N	/atrix]
Black Histic (A3) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Hydrogen Sulfide (A44) Sandy Redox (S5) Indicators for Problematic Hydric Soils Stratified Layers (A5) Stripped Matrix (S6) Coast Prairie Redox (A16) 2 cm Muck (A10) Loamy Mucky Mineral (F1) Iron-Manganese Masses (F12) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Very Shallow Dark Surface (F12) Thick Dark Surface (A12) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes No x Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (check all that apply) Secondary Indicators Surface Water (A1) Water Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Flants (B14) Dry-Season Water Table (C2) 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 Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Guage or Well Data (D9) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes No x Depth (inches) Water Table Present? Yes No x Depth (inches) Water Table Present? Yes No x Depth (inches) Yes No x Depth (inches) Yes No x		Histosol (A1)		Illon, D=Depletion	on, Rivi=Redu	Hydric Sandy M	Soil Ir Mucky	ndicators: Mineral (S1)	Loca	Redo	ox Dark Surfac	ce (F6)	\
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) I ron Deposits (B5) I nundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface Depth (Inches): Hydroic Soil Present? Hydric Soil Present? Hydric Soil Present? Yes No X Secondary Indicators Secondary Indicators Secondary Indicators Secondary Indicators Secondary Indicators Oralinge Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Water Table Present? Yes No X Depth (inches) Hydroloy Indicators Present? Yes No X Depth (inches)	Donaui	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3) fide (A4) ers (A5) .10) ow Dark Surf urface (A12)	. ,		Sandy (Sandy F Stripped Loamy Loamy	Gleyed Redox d Matri Mucky Gleyed	I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2)		Redo Indicator Coas Iron-l Very	ox Depression rs for Problema at Prairie Redo Manganese M Shallow Dark	s (F8) atic Hydri ox (A16) lasses (F	c Soils
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface Water Table (A2) Algal Mat or Crust (B4) Sparsely Vegetated Concave Surface Water Table (C2) Algal Mat or Crust (B4) Sparsely Vegetated Concave Surface Water Table (C2) Crayfish Burrows (C8) Stunted or Stressed Plants (D1) Sparsely Vegetated Concave Surface Other Water Table (C2) Geomorphic Position (D2) FAC-Neutral Test (D5) Guage or Well Data (D9) Sparsely Vegetated Concave Surface Saturation Present? Yes No x Depth (inches) Water Table Present? Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches)	Kesui	Ctive Layer (II):		-	Hydric Soil P	resent?	Yes	No	x	
Wetland Hydrology Indicators:Primary Indicators (check all that apply)Secondary IndicatorsSurface 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 RootsSaturation 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 Soil (C6)Geomorphic Position (D2)Iron Deposits (B5)Thin Muck Surface (C7)FAC-Neutral Test (D5)Inundation Visible on Aerial Imagery (B7)Guage or Well Data (D9)Sparsely Vegetated Concave SurfaceOtherField Observations: Surface Water Present? YesNoxDepth (inches)Hydroloy Indicators Present?YesNoxDepth (inches)YesNo								•					
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 Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No x Depth (inches) Water Table Present? Yes No x Depth (inches) Saturation Present? Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches) Yes No x Depth (inches)			Indicators:										
High Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Sparsely Vegetated Concave Surface Water Table (Pash No Sufface Water Table (A2) Algal Mat or Crust (B4) Sparsely Vegetated Concave Surface Water Table (A2) Algal Mat or Crust (B4) Sparsely Vegetated Concave Surface Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface Other Aquatic Fauna (B13) Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) Thin Muck Surface (C7) Guage or Well Data (D9) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes No x Depth (inches) Saturation Present? Yes No x Depth (inches) Yes No x	••••		Prim		(check all th	at apply	<u>) </u>						
Water Table Present? Yes No x Depth (inches) Hydroloy Indicators Present? Saturation Present? Yes No x Depth (inches) Yes No x		High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (Inundation Vis Sparsely Vege	able (A2) 3) (B1) cosits (B2) (B3) crust (B4) (B5) sible on Aeric etated Conca	ave Surface	Aquat True / Hydro Oxidiz Prese Recer Thin M	tic Fauna Aquatic F ogen Sulf zed Rhize ence of R nt Iron Re Muck Sur je or Well	a (B13) Plants (fide Od ospher Reduced eduction rface (((B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	Patterns (B10) n Water Table urrows (C8) Visible on Aer Stressed Plan ic Position (D2	(C2) rial Image its (D1)	ery (C9)
DESCRIDE NECORDEO DATA ISTEATH ODAGE. INORIDONIO WEB, AEDAL DROUGS, DIEVIOUS INSDECTIONS), IL AVAIJADIE.			Water Tabl Saturation	ole Present? Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)				x	

Client: Investig Slope (Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Centersbuigic condition N N tances Prese	Lat. 3 irg silt loam, 2 to ns typical for tim , Soil , Soil	_State: 39.7839 o 6 perc	: OH 994 cent slo ear? or Hy	Long opes, er Y/N odrology odrology	oded Y N	vnship, Range: Landform -82.624965 significantly disturbed naturally problematic	Mo	27 March Sec S oraines NAD83	n 2024 <u>D</u> . S11, T 15N Local Re NWI Cla	I, R 19W elief	Convex N/A
JOIVIIVI	Hydro	ophytic Vege Hydri	etation Present? ric Soil Present? rology Present?	? Yes		No No No	X 		Is the	DP within a	a Wetland x	?	
Remar	ks:	volidi la l'iyal	ology i resent.	163		INU			1163	140	^		
	TATION			Absc	lute %	Dor	ninant						
1. 2. 3. 4. 5.		Plot size:			over	Spo	ecies	Indicator Statu	IS	Don Number of that are OI Total numl species ac Percent of	BL, FACW per of dom	species , or FAC: inant	0
Shrub 1. 2. 3. 4. 5.		Plot size:				Total (that are OI Prevalence Total 9 OBL speci FACW speci FAC speci	BL, FACW e Index W cover of: es ecies es	or FAC: orksheet 0 x 1 0 x 2 0 x 3	0 0 0 0 0
1. 2. 3. 4. 5. 6. 7.	Stratum_ Schedonorus Lamium purpu Stellaria medi Taraxacum ol Trifolium repe	ureum ia fficinale	us		0 40 30 20 10		Y Y Y N N	FACU UPL FACU FACU FACU	4 5 4 4	Dom Prev Morr	es al Preval tic Vegeta id Test for ninance Te valence Ind phological	Hydrophy st is >50% lex is <u><</u> 3.0 Adaptatio	5 150 470 4.27 cators: rtic Veg. % 0*
1. 2.	Vine Stratum	_ Plot size:	30'		0	Total (*Indicat hydrolo d	lematic Hydrors of hydrogy must bisturbed or phytic Veg	ic soil and e present problema jetation F	d wetland t, unless atic Present?
3012				e to d	epth ne	eded t	o docu	ment the indicator or		n absence	of indicate	ors.)	
	Depth (inches)	Color	Matrix %		olor	%	Type	Redox Featu	ıres Text	furo	Rema	rko	
	(inches) 0-18	10YR 4/3			DIOI	/0	Турс	S LOC	Si		Nema	IKS	
		<u> </u>		+			+						
[*T./po: (Cancontre	L'ar D Donlot	' DA	1 Dadu	d N/c	- CC	Castad Condigrains	**! 0001	'' DI - Do	Linina I	A Motrix	
	Histosol (A1)		ation, D=Depleti	on, RM		Hydri Sandy	c Soil I Mucky	S=Coated Sand grains Indicators: Mineral (S1)	**Locat		ox Dark Su	ırface (F6	5)
	Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	A3) Ifide (A4) ers (A5) A10) ow Dark Surf urface (A12)	. ,			Sandy Sandy Strippe Loamy	Gleyed Redox ed Matr Mucky	rix (Ś6) / Mineral (F1) d Matrix (F2)		Red Indicate Coa: Iron-	leted Dark ox Depress ors for Prob st Prairie R Manganes Shallow D	sions (F8) lematic Hy Redox (A1 se Masses	odric Soils 6) s (F12)
			Depth (Inches)	<u>):</u>				Hydric Soil Pre	esent?	Yes	N	o x	
	Remarks: OLOGY												
	nd Hydrology						$\overline{}$						
	Sparsely Vege	er (A1) able (A2) 3) (B1) oossits (B2) (B3) Crust (B4) (B5) sible on Aerie)	Water Aquati True A Hydrog Oxidiz Preser Recen Thin M	r Staine lic Faun Aquatic ligen Su ligen Rhi ligence of l light Iron F Muck Si ligen or We	ed Leave Plants Plants Ilfide Od zosphe Reducte Reducti urface (ell Data	(B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish B	Patterns (B n Water Ta urrows (C8 Visible on Stressed I ic Position	(B6) 10) able (C2) 3) Aerial Im Plants (D' (D2)	agery (C9)
	Observations: be Recorded [Water Tab Saturation	ole Present? Present?	Yes Yes Yes oring we	ell, aeria	No No No al photo	x x x os, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if ava	_	loy Indicate Yes			

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumst	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	I. Barnett Lat. 3 Ilty clay loam, 6 as typical for tim , Soil 1 , Soil 1	State: 39.78078 to 12 pe	789 ercent ar? or Hy	Long slopes Y/N rdrology rdrology	J. s, severe Y	wnship, Range: Landform -82.625887 ely eroded significantly disturbed naturally problematic		Sec S14,	24 Data Poir , T 15N, R 19V ocal Relief WI Class:	
SUMIN	-	phytic Vege Hydri	etation Present? ic Soil Present?	Yes		_No _No	X	_	Is the	DP within a W	etland?	
Remar			rology Present?			No	Х		Yes	No	X	
	TATION											
Tree S	Stratum	Plot size:	30'	Absolu Cov			minant ecies	Indicator Status	s			
	Juglans nigra				0		Y	FACU	4		ince Test Woi	
2. 3. 4. 5.						 				Number of dor that are OBL, I Total number of species across	FACW, or FAC of dominant	C:
	=				0	Total 0	Cover			species across Percent of don		
	Stratum Juglans nigra	Plot size:	15'	3	80		Υ	FACU	4	that are OBL, I Prevalence In	- , -):
2.	Rosa multiflora	a		2	25		Ÿ	FACU	4	Total % co	over of:	
3. 4.	Rubus caesius	<u>s</u>			20		Y	FACU	4	OBL species FACW species		2 40
5.				7	' 5	Total 0	Cover			FAC species FACU species		4 580
	Stratum Bromus inerm	Plot size:	5'	5	50		Υ	EACH	4	UPL species Total	20 x	
1. 2.	Conium macu			20	20		Y	_ <u>FACU</u> FACW	<u>4</u> 2		Prevalence In	
3.	Lilium lancifoli				0		Y N	UPL	5	Hydrophytic \		dicators:
4. 5.	Allium vineale				0	- —	IN	FACU	4		est for Hydropl nce Test is >50	
6.										Prevaler	nce Index is <3	3.0*
7. 8.						- —					ogical Adaptat tic Hydrophytic V	
		=		10	00	Total 0	Cover				of hydric soil a	·
Woody 1.	Vine Stratum	Plot size:	30'							hydrology	must be prese	ent, unless
2.						· ——					bed or probler	
F	Remarks:	Т			0	Total (Cover			Hydrophyt Yes	ic Vegetation No	Present?
SOIL			Cara /Decerile	- to do	th me	(<u> </u>	······································	flum			
	Depth		Matrix	e to ue	ptn ne	eaeu ı	.0 aocu	ıment the indicator or o Redox Featu		1 absence of i	naicators. _j	
	(inches) 0-18	Color 10YR 3/3	% 100	Co	olor	%	Турє	e* Loc**	Text Si		Remarks	
	U-16	101K 3/3	100	+			+	_	JI	L		
				1			1					
				+		-	+					
'	*Type: C	:=Concentra	tion, D=Depleti	on, RM:	=Redu				**Locat	tion: PL=Pore L	ining, M=Matri	ix
	Histosol (A1)							Indicators: / Mineral (S1)		Redox D	ark Surface (F	-6)
	Histic Epipedo			-		⁻5cm ĺv	Ииску Р	Peat or Peat		Depleted	d Dark Surface	e (F7)
	Black Histic (A Hydrogen Sulf						/ Gleyed / Redox	d Matrix (S4) ((S5)			epressions (F or Problematic I	
	Stratified Lave	ers (À5)		-		Strippe	ed Matr	rix (S6)		Coast P	rairie Redox (A	\16)
	2 cm Muck (A Depleted Belo	10) w Dark Surf	iace (A11)					y Mineral (F1) d Matrix (F2)			nganese Mass allow Dark Sur	
	Thick Dark Su	ırface (A12)				Deple	ted Mat	rix (F3)		Other	unon 2a 2.	1400 (,
Restri	ctive Layer (if		: Type: Depth (Inches):					Hydric Soil Pre	-sent?	Yes	No	x
	Remarks:		Deptir (inonoc)					I II Junio Com		166	110	
	OLOGY nd Hydrology	Indicators:										
		Prim	nary Indicators								ary Indicators	3
	Surface Water High Water Ta						ed Leav			Surface Soil C Drainage Patte		
	Saturation (A3	3) `´			True A	Aquatic	Plants	(B14)		Dry-Season W	ater Table (C2	2)
	Water Marks (Sediment Dep							dor (C1) eres on Living Roots		Crayfish Burro Saturation Visi		magary (CQ)
	Drift Deposits	(B3)			Preser	nce of	Reduce	ed Iron (C4)		Stunted or Stre	essed Plants (D1)
	Algal Mat or C				Recen	nt Iron F		on in Tilled Soil (C6)		Geomorphic P FAC-Neutral T		
			al Imagery (B7)				ell Data			FAC-Neutiai i	est (D5)	
	Sparsely Vege	etated Conc	ave Surface		Other							
Field (Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hvdrol	loy Indicators	Present?	
Danasi	ba Dasandad F	Saturation		Yes	II. a a nia	No	Х	Depth (inches)	_	Yes		х
Descri	be Recorded D	ata (stream	guage, monitor	ring wei	i, aeria	a pnote	s, prev	ious inspections), if avai	liable:			

Site: Client:		r-S. Baltimore-W.		City/County:		Fai	irfield County /nship, Range:	_Date:	27 Marcl	h 2024 Data Poi S14, T 15N, R 19	
Invest	tigator(s):	L. Vine, E.Holt					Landform		ll Plains	Local Relief	Convex
Slope Soil M	làp Unit Name:	Lat. : Amanda silt loar	m, 2 to 6 pe	9.776710° ercent slopes	Long.	·	-82.627371°	_Datum	NAD83	_ NWI Class:	N/A
C	Climatic/hydrolo	ogic conditions typ	oical for time	e of year?	Y/N	Y	1 10 0 0 0				
	Vegetation Vegetation		1 <u>r</u>		ydrology ydrology		significantly disturbed naturally problematic				
	lormal Circums	stances Present?	• -	es x							
SUMIN	MARY OF FINE Hydro	DINGS ophytic Vegetation	n Present?	Yes	No	Х		Т			
	•	Hydric Soi	il Present?	Yes	No		, -			a Wetland?	
	v	Wetland Hydrology	/ Present?	Yes	No	X		Yes	No	X	
VEGE	TATION			A11-4-0/	2				T		
Tree S	Stratum_	Plot size: 30'		Absolute % Cover		ninant ecies	Indicator Statu	ıs			
1.										minance Test Wo	
2. 3.					- —					f dominant specie	
3. 4.							·		Total num	BL, FACW, or FA ber of dominant	.C:
5.			:		- 	2			species ac	cross all strata: dominant specie:	
Shrub	Stratum	Plot size: 15'	-		_Total C	Jovei				BL, FACW, or FA	
1.									Prevalenc	e Index Worksh	
2. 3.									OBL speci	% cover <u>of:</u> ies	(1 1
4.		-	 -				· · · · · · · · · · · · · · · · · · ·		FACW spe	ecies 0 x	(2 0
5.					Total C	over			FAC speci FACU spe		
	Stratum_	Plot size: 5'			_				UPL speci	es 0 x	(5 0
1. 2.	Schedonorus Trifolium repe	s arundinaceus ens		<u>50</u> 30		<u>Y</u> Y	FACU FACU	4	Tota	al <u>101</u> Prevalence II	401 ndex: 3.97
3.	Plantago land	ceolata		15		N	FACU	4		tic Vegetation In	dicators:
4. 5.	Taraxacum o	fficinale		5		N	FACU	4		oid Test for Hydron ninance Test is >5	
6.			<u> </u>		- —		· 			valence Index is <	
7.										phological Adapta	
8.			<u> </u>	100	Total C	Cover				lematic Hydrophytic tors of hydric soil	· ·
	y Vine Stratum	n_Plot size: 30'			-					ogy must be pres	
1. 2.							•		,	listurbed or proble	
	December,			0	Total C	Cover				phytic Vegetation	
SOIL	Remarks:								Yes	No	X
				e to depth ne	eeded to	o docu	ment the indicator or		n absence	of indicators.)	
	Depth (inches)	Matrix Color	x %	Color	%	Type	Redox Featu	ures Text	ture	Remarks	\dashv
	` .					1				soil pit taken, pas	sture
		+ +		 	+	-	-	+			
						1					
	*Type:	C=Concentration.	D=Depletic	on, RM=Redu	iced Ma	trix. CS	=Coated Sand grains	**I ocat	tion: PL=Po	ore Lining, M=Mat	rix
			D-20p	211, 13 1	Hydrid	c Soil Ir	ndicators:			G,	
	_ Histosol (A1) Histic Epiped						Mineral (S1) eat or Peat			lox Dark Surface (leted Dark Surfac	
	Black Histic ((A3)			Sandy	Gleyed	l Matrix (S4)	•	Red	lox Depressions (I	F8) ´
	Hydrogen Su Stratified Lay					Redox ed Matri				ors for Problematic est Prairie Redox (
	² cm Muck (A	A10) `	_		_Loamy	/ Mucky	Mineral (F1)		Iron	-Manganese Mas	ses (F12)
	Depleted Belo Thick Dark So	low Dark Surface ((A11)		_ ,	Gleyed ed Matr	d Matrix (F2)		Very Othe	y Shallow Dark Su er	ırface (F12)
Restri		if observed): Type	ə:		Depier	eu man	, ,		Otri	er	
		Dept	th (Inches):		:		Hydric Soil Pro	esent?	Yes	No	
	Remarks: ROLOGY	No soil pit taken	, pasture ia	and with farm	anıman	s presei	nt				
	and Hydrology			* 1 -1 -1 -1 4b	1				C	1 Handlandon	
-	Surface Wate		ndicators	(check all th Water	nat appl r Staine		es (B9)	+		ondary Indicator oil Cracks (B6)	'S
	High Water T	Γable (A2)	-	Aquat	tic Faun	na (B13)			Drainage I	Patterns (B10)	
<u> </u>	_Saturation (A Water Marks				Aquatic ogen Sul			<u> </u>		on Water Table (C Surrows (C8)	;2)
	Sediment De	posits (B2)	=	Oxidiz	zed Rhiz	zospher	es on Living Roots		Saturation	Visible on Aerial	
	_ Drift Deposits Algal Mat or (d Iron (C4) on in Tilled Soil (C6)			Stressed Plants nic Position (D2)	(D1)
	Iron Deposits	s (B5) ` ´	-	Thin N	nt Iron R Muck St					ral Test (D5)	
		isìble on Aerial Ima	agery (B7)		e or We				_	•	
			\f = 0.0	Othor							
Field	Sparsely Veg	getated Concave S S: Surface Water F		Other Yes	No		Depth (inches)	+			
Field	Sparsely Veg	getated Concave S s: Surface Water F Water Table Pre	Present? esent?	Yes Yes	No No		Depth (inches) Depth (inches)	Hydrol		ors Present?	.,
	Sparsely Veg Observations	getated Concave S s: Surface Water F Water Table Pre Saturation Prese	Present? esent? ent?	Yes Yes Yes	No No No	s. previo			loy Indicat Yes		х

Site: Client:		ter-S. Baltimor	re-W. Millersport	t City/County:		Fa	airfield County wnship, Range:	_Date:	27 March	h 2024 Data Point: S14, T 15N, R 19W	41
Investi	igator(s):	L. Vine, E.	.Holt				Landform			Local Relief	
Slope Soil Ma		5-8 ne: Amanda si	Lat. <u>3</u> silty clay loam, 6	39.772667° to 12 percent	Long.	severe	'-82.628789° elv eroded	_Datum	NAD83	NWI Class:	
CI	limatic/hydro	ologic condition	ns typical for time	ne of year?	Y/N	Y	-				
	Vegetati Vegetati			N or Hy N or Hy	ydrology ydrology	/ <u>N</u>	significantly disturbed naturally problematic				
Are No	ormal Circum	nstances Prese		'es x		<u> </u>	=				
SUMIN	MARY OF FIN	drophytic Vege	etation Present?	Yes	No	Х		1			
	٠., ٠	Hydri	ric Soil Present?	Yes X	No		- -			a Wetland?	
		Wetland Hyd	Irology Present?	Yes	No	X		Yes	No	X	
VEGE	TATION			* 1 1 - 0/							
Tree S	Stratum	Plot size:	30'	Absolute % Cover		ninant ecies	Indicator Statu	IS			
1.										minance Test Works	heet
2. 3.					- — - ——					f dominant species	5
4.				-					Total numb	BL, FACW, or FAC: ber of dominant	11
5.					Total (2				cross all strata:	
Shrub	Stratum	Plot size:	15'	0	Total (Cover				dominant species BL. FACW. or FAC:	45.45
1.	Rhamnus c	athartica		30		Y	FAC	3	Prevalenc	e Index Worksheet	
2. 3.	Ailanthus ai			15 10		Y N	_ <u>FACU</u> FAC	3	Total %	% cover of:	1
4.	Elaeagnus			10		N	FACU	4_	FACW spe	ecies 15 x 2	30
5.				- GE	Total (2			FAC speci		120
Herb S	Stratum	Plot size:	5'	65	Total (Cover			FACU specie		280 150
1.	Schedonoru	us arundinaceı		30		Υ	FACU	4	Tota	al <u>156</u>	581
2. 3.	Fragaria ve Verbesina a			20 15		Y N	UPL FACW	<u>5</u>	Lydrophy	Prevalence Inde: rtic Vegetation Indic	
3. 4.	Carex frank	кіі		10	- ·	N	OBL	1		id Test for Hydrophyt	
5.	Elymus can			10	_	N	FACU	4	Dom	ninance Test is >50%	,
6. 7.	Verbascum Arctium mir			<u>10</u> 5		N N	UPL FACU	<u>5</u> 4		valence Index is <3.0° phological Adaptation	
8.	71100.0	100								lematic Hydrophytic Veg	
///aad/	·//ino Strati	ım Plot size:	20'	100	Total (Sover		_		tors of hydric soil and	
1.	/ VIIIE Stratu	IIII FIUL SIZE.	30						,	ogy must be present,	
2.				0	Total 0	Carror	 			listurbed or problemate phytic Vegetation Position Posit	
F	Remarks:				TUtar	20VEI			Yes		
SOIL		rofilo Descrir	ntion: (Describ	o to denth n	anded t	o docu	ment the indicator or	confirm	- sheence	of indicators)	
	Depth		Matrix	e to deptin in	eeueu .		Redox Featu		II dusence	Of illulcators.	¬
	(inches)	Color	% 95	Color 10YR 5/4	% 5	Type C	e* Loc**	Text		Remarks	□
	0-8 8-18	10YR 4/2 10YR 4/2		10113/4	5	+ -	M	Si			-
						#		1]
				-	+	+					-
	*Type	: C=Concentra	ation, D=Depletion	on, RM=Redu			S=Coated Sand grains	**Locat	tion: PL=Po	ore Lining, M=Matrix	
	Histosol (A1	1)					Indicators: Mineral (S1)		X Red	lox Dark Surface (F6)	
	Histic Epipe	edon (A2)			5cm ĺV	/lucky É	eat or Peat		Depl	leted Dark Surface (É	
	Black Histic Hydrogen S					Gleyed Redox	d Matrix (S4)			lox Depressions (F8) ors for Problematic Hyd	dric Soils
	Stratified La	ayers (A5)			Strippe	ed Matri	rix (S6)		Coas	st Prairie Redox (A16	6)
	2 cm Muck		(A44)		Loamy	y Mucky	/ Mineral (F1)			-Manganese Masses	
	_	elow Dark Surf Surface (A12)	\ /			y Gleyed ted Mati	d Matrix (F2) rix (F3)		Very Othe	y Shallow Dark Surfac er	ce (F12)
Restri		(if observed):	: Type:			00 1					
-	Remarks:		Depth (Inches):	:			Hydric Soil Pre	esent?	Yes	X No	
HYDR	OLOGY										
Wetla	nd Hydrolog	gy Indicators:	: nary Indicators	· /check all th	at ann			-	Sec	ondary Indicators	
	Surface Wa	ater (A1)	lary maioacoro	Wate	r Staine	d Leave		+	Surface So	oil Cracks (B6)	
	High Water				tic Faun					Patterns (B10)	
	Saturation (Water Mark				Aquatic ogen Su		(B14) dor (C1)			on Water Table (C2) Surrows (C8)	
	Sediment D	Deposits (B2)		Oxidiz	zed Rhiz	zosphei	res on Living Roots		Saturation	Visible on Aerial Ima	
	Drift Deposi	its (B3) r Crust (B4)					ed Iron (C4) on in Tilled Soil (C6)			Stressed Plants (D1 nic Position (D2))
	Iron Deposi				Muck Si					ral Test (D5)	
	Inundation \	Visible on Aeri	ial Imagery (B7)		e or We	ell Data	(D9)		-	,	
Field (egetated Conc ns: Surface W	/ater Present?	Other Yes	r No		Depth (inches)	+			
		Water Tab	ole Present?	Yes	No		Depth (inches)	Hydro		ors Present?	
Descri	be Recorder	Saturation d Data (stream		Yes ring well, aeria	No al photo	s. previ	Depth (inches) ious inspections), if ava	ailable:	Yes	s No X	
	dric indicate		99.,	,		-,	,,,,				

Site: Client		-S. Baltimor	re-W. Millerspor	rt City/County:		Fa	airfield County wnship, Range:	_Date:	27 Marc		Data Po 15N, R 19		40
Invest	tigator(s):	L. Vine, E.			_		Landform		oraines	Loca	al Relief	Co	onvex
Slope Soil M	/làp Unit Name:	Amanda s	silty clay loam, 6	39.771423° 5 to 12 percent	Long.	severe	-82.629211° ely eroded	_ Datum	NAD83	_ NW	I Class: _		N/A
C	Climatic/hydrolo	gic condition	ns typical for tim	ne of year?	Y/N	Υ	•						
	Vegetation Vegetation				ydrology ydrology		significantly disturbed naturally problematic						
	lormal Circumst	tances Prese		Yes x			=						
SUIVII	MARY OF FIND Hydro	ophytic Vege	etation Present?	? Yes	No	Х							
	٧		ric Soil Present? Irology Present?		No No	X	- =	Is the I	DP within No		and?		
		76tiana mya	TOTOGY I TOGGIN.	162	INU			163	140				
	TATION			Absolute %	Dom	ninant							
Tree S	Stratum_	Plot size:	30'	Cover		ecies	Indicator Statu	IS					
1. 2.							-				ce Test W nant speci		
2. 3.											CW, or FA		3
4. 5.							- 		Total num species a				3
				0	Total C	over			Percent of	of domin	nant specie		100.00
Shrub 1.	Stratum Rhamnus cati	Plot size:	15'	40	-	Υ	FAC	3			CW, or FA		100.00
2.	I Maning out	lartica				1			Total	% cove	er of:		
3. 4.			_				- -		OBL spec FACW sp		10	x 1	20
5.							-		FAC spec	cies	40	x 3	120
Herb :	Stratum	Plot size:	5'	40	Total C	over		_	FACU spec		80	x 4 x 5	320
1.	Schedonorus	arundinace		80		Υ	FACU	4	Tot	tal	131		461
2. 3.	Conium macu	latum		10		N	FACW	2	Hydronh:		revalence getation I		3.52
4.									Rap	pid Test	t for Hydro	phytic	Veg.
5. 6.											e Test is > e Index is ·		
7.							- <u> </u>		Moi	rpholog	ical Adapt	_ tations	
8.				90	Total C	`over					Hydrophytic	•	
	dy Vine Stratum	Plot size:	30'		_ 10161 0	,0vo.					hydric soil ust be pre		
1. 2.							_			0,	ed or probl		
	D			0	Total C	over					Vegetatio		sent?
SOIL	Remarks:								Yes		No	Х	
				je to depth ne	eded to	o docu	ment the indicator or		n absence	of ind	icators.)		1
	Depth (inches)	Color	Matrix %	Color	%	Турє	Redox Featue* Loc**	ures Text			emarks		
	0-3	10YR 3/3	100	#	=	丰		#	In	npenetr	able rock	layer	
													1
		_			<u> </u>	Ţ		-					-
	*Type: (S=Concentra	ation, D=Deplet	ion, RM=Redu			S=Coated Sand grains	**Locat	tion: PL=P	ore Lini	ng, M=Ma	atrix]
	Histosol (A1)						Indicators: / Mineral (S1)		Red	dox Dar	k Surface	(F6)	
	Histic Epipedo				5cm Mı	lucky É	Peat or Peat (•	Dep	pleted D	Dark Surfa	ice (F7)
	Black Histic (A Hydrogen Sul				Sandy Sandy		d Matrix (S4) (S5)				oressions Problemati		c Soils
	Stratified Laye	ers (À5)			Strippe	ed Matr	rix (S6)		Coa	ast Prai	rie Redox	(A16)	
	2 cm Muck (A Depleted Belo		face (A11)				y Mineral (F1) ed Matrix (F2)				anese Mas ow Dark S		
	Thick Dark Su	urface (A12)) , ,			,	trix (F3)		Oth	•			
Restr	ictive Layer (if	observed):	: Type: Depth (Inches)	<u>م</u>			Hydric Soil Pro	esent?	Yes	2	No	Х	
	Remarks:	Impenetra	ble rock layer u										
	ROLOGY and Hydrology	Indicators:											
		Prin	mary Indicators				(DO)				y Indicato	rs	
	Surface Wate High Water Ta				r Stained tic Fauna				Surface S Drainage	Pattern	cks (Bo) is (B10)		
	Saturation (A3	3) `´´		True A	Aquatic I	Plants	(B14)		Dry-Seaso	on Wate	er Table (C2)	
	Water Marks Sediment Dep				ogen Sul zed Rhiz		aor (C1) eres on Living Roots			n Visible	e on Áeria		ery (C9)
	Drift Deposits	(B3) ` ´		Prese	ence of R	Reduce	ed Iron (C4)		Stunted o	r Stress	sed Plants		· ,
	Algal Mat or C Iron Deposits				nt Iron R Muck Su		ion in Tilled Soil (C6) (C7)		Geomorpl FAC-Neut				
	Inundation Vis	sìble on Aeri	ial Imagery (B7)	Guage	e or Wel						- ()		
Field	Sparsely Vego Observations:			Other Yes	r No		Depth (inches)	+					
		Water Tab	ole Present?	Yes	No		Depth (inches)	Hydrol	loy Indica			v	
_	rihe Recorded [Saturation Data (stream		Yes oring well, aeria	No al photos	s, prev	Depth (inches) rious inspections), if ava	ailable:	Yes	<u>s</u>	No	X	
Descr	IDC INCCORDED L												

Site: Client		er-S. Baltimore AEP	e-W. Millersport	t City/County:		Fa	airfield County vnship, Range:	Date:	27 Marc	<u>h 2024</u> Data Poin S14, T 15N, R 19W	
Invest	tigator(s):	L. Vine, E.I				•	Landform		II Plains	Local Relief	Convex
Slope Soil M			Lat. 3 oudonville comp	39.770633° plex, 6 to 12 p	Long.	slopes,	-82.629435° eroded	_Datum	NAD83	_ NWI Class:	N/A
C	Climatic/hydrological	logic condition	s typical for tim	ne of year?	Y/N	Y					
	Vegetatio Vegetatio	on N			ydrology ydrology		significantly disturbed naturally problematic				
	Iormal Circums	stances Prese	,	res x							
SUMIN	MARY OF FIN Hydr	Irophytic Veget	tation Present?	Yes	No	Х		Т			
	•	Hydrid	c Soil Present?	? Yes	No		- -			a Wetland?	
		Wetland Hydro	rology Present?	Yes	No	X		Yes	No	X	
VEGE	ETATION			A11:-4= 0/	2						
Tree S	Stratum	Plot size:	30'	Absolute % Cover		ninant ecies	Indicator Statu	IS			
1.						30103				minance Test Wor	
2. 3.					- —					f dominant species	
3. 4.									Total num	BL, FACW, or FAC ber of dominant	,: 3
5.				0	Total (Carror			species ad	cross all strata: f dominant species	
Shrub	Stratum	Plot size:	15'		_Total C	Jovei				BL, FACW, or FAC	.3.3.3.3
1.									Prevalence	ce Index Workshe	
2. 3.									OBL speci	% cover of: ies 1 x	1 1
4.									FACW spe	ecies 0 x	2 0
5.					Total C	Cover			FAC speci FACU spe	ies <u>0</u> x ecies 100 x	
	Stratum	Plot size:			_				UPL speci	ies 0 x	5 0
1. 2.	Schedonorus Allium canad	ıs arundinaceu dense	IS	80 10		Y N	FACU FACU	4	Tot	al <u>101</u> Prevalence Inc	401 dex: 3.97
3.	Trifolium rep			10		N	FACU	4		tic Vegetation Ind	licators:
4. 5.										oid Test for Hydroph ninance Test is >50	
5. 6.									Prev	valence Index is <3	3.0*
7.										phological Adaptati	
8.				100	Total C	Cover			_	elematic Hydrophytic V tors of hydric soil a	ŭ
	dy Vine Stratun	n Plot size:	30'		-					logy must be prese	
1. 2.							-			disturbed or problen	
	Damorica:			0	Total C	Cover	-			phytic Vegetation	
SOIL	Remarks:								Yes	. No	X
	Pr			e to depth no	eeded t	o docu	ment the indicator or		n absence	of indicators.)	
	Depth (inches)	Color	Matrix %	Color	%	Туре	Redox Featu		ture	Remarks	
	` '				1					lo soil pit, residentia	al
				+	+	+-		+			
	*Type:	C=Concentra	tion. D=Depleti	ion. RM=Redu	iced Ma	I atrix. CS	S=Coated Sand grains	**I oca	tion: PL=Po	ore Lining, M=Matri	<u></u>
			uon, E E-p.	On, ran	Hydrid	c Soil lı	ndicators:			G,	
	Histosol (A1) Histic Epiped						Mineral (S1) Peat or Peat			lox Dark Surface (F bleted Dark Surface	
	Black Histic	(A3)			Sandy	Gleyed	d Matrix (S4)		Red	lox Depressions (F	8) ´
	Hydrogen Su Stratified Lay					Redox ed Matri				<mark>ors for Problematic F</mark> ast Prairie Redox (A	
	2 cm Muck ((A10)			Loamy	y Mucky	/ Mineral (F1)		Iron	-Manganese Mass	es (F12)
		elow Dark Surfa Surface (A12)	ace (A11)		_ ,	y Gleyed ted Matr	d Matrix (F2)		Very	y Shallow Dark Sur	face (F12)
Restr	rictive Layer (i		Type:		Depier	eu iviau	I ` '		Otti	<u>er</u>	
			Depth (Inches)				Hydric Soil Pre	esent?	Yes	. No	
<u> </u>	Decreasing,			₁al area							
	Remarks:	No soil pit t	taken, residenti								
HYDR		No soil pit t				$\overline{}$				1 1	
HYDR	ROLOGY and Hydrology	No soil pit t y Indicators: Prim	nary Indicators	s (check all th			es (B9)			condary Indicators	:
HYDR	ROLOGY and Hydrology Surface Wate High Water 1	No soil pit to the prime ter (A1) Table (A2)		s (check all th Water Aquat	r Staine tic Faun	ed Leave na (B13)) ` ´		Surface Solution Drainage I	oil Cracks (B6) Patterns (B10)	
HYDR	ROLOGY and Hydrology Surface Wate High Water T Saturation (A	No soil pit t y Indicators: Prim ter (A1) Table (A2) A3)		s (check all th Water Aquat	r Staine tic Faun Aquatic	ed Leave na (B13) : Plants) (B14)		_Surface S _Drainage I _Dry-Seaso	oil Cracks (B6) Patterns (B10) on Water Table (C2	
HYDR	SOLOGY and Hydrology Surface Wate High Water I Saturation (A Water Marks Sediment De	No soil pit to py Indicators: Prim ter (A1) Table (A2) A3) s (B1) eposits (B2)		S (check all the Water Aquater True A Hydro Oxidiz	r Staine tic Faun Aquatic ogen Sul zed Rhiz	ed Leave na (B13) Plants ulfide Oc zospher) (B14) dor (C1) res on Living Roots		Surface Section Surface In Drainage In Dry-Seaso Crayfish Baturation	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water 1 Saturation (A Water Marks Sediment De Drift Deposits	No soil pit to the pit		s (check all th Water Aquat True / Hydro Oxidiz Prese	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F	ed Leave na (B13) Plants Ilfide Od zospher Reduce) (B14) dor (C1) res on Living Roots ed Iron (C4)		Surface Solution Drainage In Dry-Season Crayfish Bolution Stunted or	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I	2) magery (C9)
HYDR	Sology Surface Wate High Water Tag Saturation (A) Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposites	No soil pit to y Indicators: Primeter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) ss (B5)	nary Indicators	s (check all th Water Aquat True Hydro Oxidiz Prese Recer	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6)		Surface Some Drainage In Dry-Season Crayfish Bushess Saturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water Toler Saturation (A Water Marks Sediment De Drift Deposits Inundation V	No soil pit to y Indicators: Prim ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) C Crust (B4) s (B5) /isible on Aeria	nary Indicators	s (check all the Water Aquat True A Hydro Oxidiz Presse Recer Thin M Guagu	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F nt Iron F Muck Sule or We	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio urface ((B14) dor (C1) res on Living Roots del Iron (C4) on in Tilled Soil (C6) (C7)		Surface Some Drainage In Dry-Season Crayfish Bushess Saturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2)	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water Toler Saturation (A Water Marks Sediment De Drift Deposits Inundation V	No soil pit to y Indicators: Prim ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c (Crust (B4) s (B5) /isible on Aeria getated Conca	nary Indicators al Imagery (B7) ave Surface	s (check all th Water Aquat True Hydro Oxidiz Prese Recer	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F nt Iron F Muck Sule or We	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio urface ((B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface Some Drainage In Dry-Season Crayfish Bushess Saturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2)	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposite Algal Mator Iron Deposite Inundation V Sparsely Veg	No soil pit to soi	nary Indicators al Imagery (B7) ave Surface ater Present? le Present?	s (check all th Water Aquat True / Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F nt Iron F Muck Su je or We r No	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio urface ((B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches) Depth (inches)	Hydrol	Surface Single Surface Single Surface Single Surface Single Saturation Standard Surface Surfac	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2) rral Test (D5)	2) magery (C9) D1)
HYDR Wetla	SOLOGY and Hydrology Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Inundation V Sparsely Veg Observations	No soil pit to print to print ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) //isible on Aeria getated Conca s: Surface Wa Water Tabl Saturation	nary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	s (check all th Water Aquat True / Hydro Oxidiz Prese Recer Thin N Guagr Other Yes Yes	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F nt Iron F Muck Sul je or We No No	d Leave na (B13) Plants Ilfide Oc zospher Reduce Reductic urface (I ell Data	(B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches)		Surface Single Surface Single Surface Single Surface Staturation Staturation FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2) rral Test (D5)	2) magery (C9)

Client: Investi Slope Soil M: C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	Lat. 3 It loam, 6 to 12 as typical for tim by, Soil by, Soil	State	: OH 870 nt slope ear? or Hy	Long. s,erode Y/N rdrology rdrology	ed Y	vnship, Range: Landfor -82.631439 significantly disturbe naturally problematio	Datum	Sec :				
OOMIN	Hydro	ophytic Vege Hydri	etation Present? ic Soil Present? rology Present?	Yes		No No No		- - -	Is the Yes	DP within	a Wetlar	nd?		
Remai	rks:													
Tree S	TATION Stratum	Plot size:			olute % over		ninant ecies	Indicator Sta	itus			Test Wo		et
2. 3. 4. 5.										Number of that are Ol Total numl species ac Percent of	BL, FAC	W, or FAO	C: _	1
1. 2. 3.		Plot size:			0	Total (Cover			that are Ol Prevalence Total S OBL speci	BL, FAC e Index % cover es	W, or FAG Workshoof: 0 x	C: _ eet _ 1 _	0.00
4. 5. <u>Herb S</u> 1. 2.	Stratum Dactylis glom Achillea mille	Plot size:			0 80 10		Cover Y N	FACU FACU	4 4	FACW speci FAC speci FACU speci UPL speci Tota	es cies es al	0 x 100 x 100 x 100 x 100 yalence Ir	3	0 400 0 400 400 4.00
3. 4. 5. 6. 7. 8.	Trifolium repe				10		N	FACU	4	Dom Prev Mor	tic Vege id Test for ninance of valence I phologica		dicator hytic V 50% 3.0* tions*	r s: ′eg.
	y Vine Stratum	Plot size:	30'	1	100	Total (*Indicat hydrol d	ors of hy ogy mus isturbed	dric soil a t be prese or proble	and we ent, unl matic	tland less
F	Remarks:				0	Total (Cover			Hydro Yes		egetation No	n Prese X	ent?
SOIL	Pro	file Descrin	ntion: (Describ	ne to d	enth ne	eded t	o docu	ment the indicator of	or confirm	n ahsence	of indic	ators)		
	Depth	1	Matrix		•			Redox Fea	atures					
	(inches) 0-18	Color 10YR 4/2	% 100	C	olor	%	Туре	e* Loc**		ture i L	Ren	narks		
							+							
	*Tvpo: (C-Concontra	tion D-Donlot	ion DA	/_Dodu	cod Ma	triv CS	S=Coated Sand grains	. **! 000	tion: PL=Pc	ro Linino	n M-Mati	riv	
		J=Concentra	ition, D=Depleti	ion, Ki	/i=Redu	Hydri	c Soil I	ndicators:	s Luca		•			
	Histosol (A1) Histic Epipedo Black Histic (A					5cm ĺV	lucky É	Mineral (S1) leat or Peat d Matrix (S4)		Dep Red	leted Da ox Depre	Surface (rk Surfac essions (F	e (F7) F8)	
	Hydrogen Sul Stratified Laye						Redox ed Matr					oblematic Redox (Soils
	2 cm Muck (A	(10) ((444)			Loamy	/ Mucky	/ Mineral (F1)		Iron-	-Mangan	ese Mass	ses (F1	
	Depleted Belo Thick Dark Su					_Loamy Deplet	ed Mat	d Matrix (F2) rix (F3)		Othe		v Dark Su	іпасе (і	F12)
Restri	ctive Layer (if		:Type:						2					
F	Remarks:		Depth (Inches)):				Hydric Soil F	resent?	Yes		No	Х	
	OLOGY	lu dia ataua.												
vvetiai	nd Hydrology		nary Indicators	(chec	k all th	at appl	y)			Sec	ondary l	ndicator	s	
	Surface Wate High Water Ta Saturation (A:	able (A2) 3)			_ Aquat	Staine ic Faun Aquatic	a (B13)			Surface So Drainage F Dry-Seaso	Patterns	(B10)	2)	
	Water Marks Sediment Dep							dor (C1) res on Living Roots		Crayfish B Saturation			lmager	v (C9)
	Drift Deposits	(B3)			Prese	nce of I	Reduce	ed Iron (C4)		Stunted or	Stresse	d Plants ((D1)	y (OO)
		(B5) ` sible on Aeri	al Imagery (B7)		_Thin N _Guage	Muck Sue or We	urface (Geomorph FAC-Neuti				
Field (Sparsely Veg Observations			Yes	Other	No	Х	Depth (inches)						
		Water Tab Saturation	le Present? Present?	Yes Yes	all cori	No No	X X	Depth (inches) Depth (inches) ious inspections), if a	_	loy Indicat Yes		sent? No	x	
ווטפטטוו	DE IVECOIDED I	zaia (Siitalli	guaye, monito	ing we	ıı, a c ıla	טוטווץ יי	s, piev	ious irispections), il a	vanable.					

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N ances Prese	Lat. St lt loam, 6 to 12 is typical for time, Soil Soil	State	099 nt slope ear? or Hy	Long. s,erode Y/N rdrology rdrology	ed Y	rnship, Range: Landform -82.633227 significantly disturbed naturally problematic	Datum	Sec S	2024 Data Po 523, T 15N, R 19 Local Relief NWI Class:	
SOWIN	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	Yes		No No No	X 	-	Is the Yes	DP within a	Wetland?	
Remar	ks:			. 00			,		1			
	TATION stratum_	Plot size:			olute % over		ninant ecies	Indicator Statu	us	Dom	ninance Test Wo	orksheet
2. 3. 4. 5.										that are OB Total numb	dominant species BL, FACW, or FA er of dominant	·C:
Shrub 1.	Stratum	Plot size:	15'		0	Total (Cover			that are OB	ross all strata: dominant specie BL, FACW, or FA e Index Worksh	،C:
2. 3. 4. 5.										OBL specie FACW specie FAC specie	cies 0	(2 <u>0</u> (3 <u>0</u>
1. 2.	Stratum Glycine max r Stellaria medi	а	5'		50 40		Y Y	UPL FACU	<u>5</u> 4	FACU speci UPL specie Tota	es <u>55</u>	< 5 <u>275</u> 435
3. 4. 5. 6. 7.		ıreum			5		N	UPL	5	Rapid Domi Preva	ic Vegetation Ir d Test for Hydro inance Test is > alence Index is < hological Adapta	phytic Veg. 50% <u><</u> 3.0*
8. <u>Woody</u> 1.	/ Vine Stratum				95	Total (Cover			Proble *Indicate hydrolo	ematic Hydrophytic ors of hydric soil ogy must be pres sturbed or proble	Vegetation* and wetland ent, unless
2.					0	Total C	Cover				hytic Vegetatio	
SOIL	Remarks:									Yes	No	X
			tion: (Describ	e to d	epth ne	eded t	o docu	ment the indicator or Redox Feat		n absence o	of indicators.)	
	Depth (inches)	Color	%	С	olor	%	Туре	* Loc**	Text		Remarks	
	0-18	10YR 4/3	100						Si	L		
	*Type: C	=Concentra	tion, D=Deplet	on, RI	И=Redu			=Coated Sand grains	**Locat	tion: PL=Por	re Lining, M=Ma	trix
	Histosol (A1)					Sandy	Mucky	Mineral (S1)			x Dark Surface	
	Histic Epipedo Black Histic (A							eat or Peat I Matrix (S4)			eted Dark Surfac ox Depressions (
	Hydrogen Sulf	fide (A4)				Sandy	Redox	(S5)		Indicator	rs for Problemation	Hydric Soils
	Stratified Laye 2 cm Muck (A	ers (A5) 10)				Strippe		x (S6) Mineral (F1)			st Prairie Redox Manganese Mas	
	Depleted Belo	w Dark Surf	ace (A11)			Loamy	Gleye	d Matrix (F2)		Very	Shallow Dark S	
Restri	Thick Dark Suctive Layer (if		Type:			Deplet	ed Mat	rix (F3) Č		Othe	r	
			Depth (Inches)):				Hydric Soil Pr	resent?	Yes	No	х
	Remarks: OLOGY											
Wetla	nd Hydrology		nary Indicators	· (chor	k all th	at anni				Soco	ondary Indicato	re
	Surface Wate	r (A1)	iary marcators	Conce	Water	Staine	d Leav			Surface So	il Cracks (B6)	13
	High Water Ta Saturation (A3					ic Faun Aquatic					atterns (B10) n Water Table (0	:2)
	Water Marks	(B1)			Hydro	gen Su	lfide O	dor (C1)		¯Crayfish Bu	ırrows (C8)	′
	Sediment Dep Drift Deposits							res on Living Roots d Iron (C4)		Saturation Stunted or	Visible on Aerial Stressed Plants	Imagery (C9) (D1)
	Algal Mat or C	rusť (B4)			Recer	nt Iron F	Reducti	on in Tilled Soil (C6)		Geomorphi	c Position (D2)	` '
	Iron Deposits Inundation Vis		al Imagery (B7)			∕luck Sι e or We				FAC-Neutra	ai Test (D5)	
	Sparsely Vege	etated Conc	ave Surface		Other				1			
rieia (Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hydro	loy Indicato	ors Present?	
		Saturation		Yes		No	Х	Depth (inches)		Yes	No	x

Client: Investi Slope	igator(s): (%):	AEP N. Houk, N. 1-3	. Barnett Lat.	t City/Coun State: C	OH Section		vnship, Range: Landform -82.634647	Till		2024 Data P 526, T 15N, R 1 Local Relief NWI Class:	
CI Are No	ap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumsta	gic conditions N N ances Prese	s typical for tim , Soil , Soil	N or N	Hydrology	y N N	significantly disturbed naturally problematic				
SUIVIIV		phytic Veget Hydrid	tation Present? c Soil Present? ology Present?	Yes	x No x No No	X		Is the I	DP within a	a Wetland?	
Remar	rks:		er basin overfl		110	^		1103	110		
VEGE	TATION			Absolute	% Don	ninant					
1. 2. 3. 4.		Plot size:		Cover	Spe	ecies	Indicator Statu		Number of	ninance Test W dominant speci BL, FACW, or F. per of dominant	es AC: 1
5. <u>Shrub</u> 1. 2.	Stratum_	Plot size:	15'	0					species ac Percent of that are OE Prevalenc Total %	ross all strata: dominant speci BL, FACW, or F e Index Works 6 cover of:	es 100.00 AC: heet
		Plot size:		0	Total (FACIM		OBL specie FACW specie FAC specie FACU specie UPL specie Tota	100 100 es	x 1
2.							FACW		Hydrophyt Rapi x Dom x Prev Morr	Prevalence tic Vegetation I d Test for Hydro inance Test is salence Index is bhological Adap ematic Hydrophyti	Index: 2.00 ndicators: ophytic Veg50% <3.0* tations*
_	y Vine Stratum	Plot size:	30'	100	Total (*Indicate hydrolo di	ors of hydric soi ogy must be pre isturbed or prob	l and wetland sent, unless lematic
F	Remarks:	T			Total (Jover			Hydrof Yes	ohytic Vegetation	on Present?
SOIL	Duel	ila Danasis	tion. (Decemb	- 4- double	mandad 4					of in diagrams \	
	Depth		Matrix	le to depth	needed t	o docu	ment the indicator or Redox Featu		absence	oi indicators.)	
	(inches)	Color	%	Color	%	Туре	e* Loc**	Text		Remarks	
	0-4 4-8	10YR 3/1 10YR 3/1	100 95	10YR 5/	6 5	С	M	Si C			
	70	10110 3/1		1011(0)			IVI	Oi C	, _		
						1					
	*Type: C	=Concentra	tion, D=Depleti	ion, RM=Re			S=Coated Sand grains	**Locat	ion: PL=Po	re Lining, M=Ma	atrix
	Histosol (A1) Histic Epipedo	n (A2)			Sandy	Mucky	ndicators: Mineral (S1) Peat or Peat	-		ox Dark Surface eted Dark Surfa	
	Black Histic (A Hydrogen Sulfi Stratified Laye	ide (A4)		<u> </u>	Sandy	Gleyed Redox ed Matr		-	Indicato	ox Depressions ors for Problemati st Prairie Redox	c Hydric Soils
	2 cm Muck (A1 Depleted Below Thick Dark Sur	w Dark Surfa	ace (A11)	<u> </u>	Loamy		/ Mineral (F1) d Matrix (F2) rix (F3)	- -		Manganese Ma Shallow Dark S er	
Restri	ctive Layer (if		Type: Depth (Inches)		Rip-rap 8		Hydric Soil Pro	ocont?	Voc	x No	
	Remarks:		Deptit (inches)	1.	- 0		Hydric 30ii Fit	esent:	Yes	x No	
	OLOGY nd Hydrology I	Indicators:									
		Prim	ary Indicators	(check all	that appl	y)				ondary Indicate	ors
	Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Algal Mat or C Iron Deposits (Inundation Visi Sparsely Vege	able (A2) (B1) osits (B2) (B3) rust (B4) (B5) ible on Aeria	ave Surface	Aqı Tru Hyo Ox Pre Re Thi	esence of I	na (B13) Plants Ilfide Od zosphei Reduce Reduction urface ((B14) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7)		Drainage F Dry-Seaso Crayfish Bound Saturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) In Water Table (In Water	I Imagery (C9)
	Observations:	Water Table Saturation I	e Present? Present?	Yes Yes Yes	No No No	X X X	Depth (inches) Depth (inches) Depth (inches)	_	oy Indicato Yes	ors Present? No	x
Descri	be Recorded D	ata (stream	guage, monito	ring well, a	eriai photo	ıs, previ	ious inspections), if ava	allable:			

	W. Lancaste		e-W. Millerspor			_	1: 5	Date:	28 Marc				32A
Client: Investi	gator(s):	AEP N. Houk, N	N. Barnett	_State: _ C	OH Section	n, Tow	nship, Range: Landform	Till	Plains		15N, R 19 al Relief	Conv	ex
Slope	(%): `´	2-5 Maranga a		39.754906	Long.		-82.634636	Datum	NAD83	NWI	Class:	N/A	١
	ap Unit Name imatic/hvdrol		ns typical for tin	ne of vear?	Y/N	Υ							
	Vegetatio	n <u>N</u>	, Soil	N or	Hydrology		significantly disturbed						
Are No	Vegetatio rmal Circums		_, Soil ent?		Hydrology x No	N_	naturally problematic						
	IARY OF FIN	DINGS			<u></u>		=						
	Hydr	ophytic Vege Hydr	etation Present [*] ic Soil Present [*]	? Yes	No No	X	-	le the [DP within	a Wati	and?		
	,		rology Present		No	X	-	Yes	No No	a weu	anu r		
Remar	ks: TATION							-					
				Absolute	% Domi	nant		1					
Tree S	tratum	Plot size:	30'	Cover	Spec	cies	Indicator Statu	s					
1.											ce Test Wo		t
2. 3.											•		0
4.											CW, or FA dominant	_	1
5.				0	Total Co	over			species a	cross a	ll strata: ant specie	<u> </u>	
Shrub	Stratum	Plot size:	15'		10(a) 0	Ovei					CW, or FA		0.00
1.											x Worksh	eet	
2. 3.									OBL spec	% cove ies	er <u>στ:</u> Ο >	, ₁ —	0
4.									FACW sp	ecies	10		20
5.					T-1-10		-		FAC spec		20		60
Herb S	Stratum	Plot size:	5'	0	Total Co	over			FACU spec		<u>70</u> 2		280 0
1.	Sorghum hai	epense		60	<u> </u>	′	FACU	4	Tot	al	100		360
	Ambrosia trif Conium mac			10 10	<u> </u>	•	FAC FACW	3	Usalnambs		evalence I		3.60
3. 4.	Solidago car			10	— — <u>I</u>		FACV FACU	<u>2</u> 4			getation Ir : for Hydro		
5.	Vernonia gig			10	N	1	FAC	3	Don	ninance	e Test is >	50%	g.
6. 7.											e Index is		
8.											Hydrophytic		n*
	\" O: .	D.		100	Total Co	over			*Indica	tors of	hydric soil	and wetl	land
Woody 1.	Vine Stratur	n_Plot size:	30'						•	0,	ist be pres		ess
2.									C	listurbe	d or proble	ematic	
	Pomarke:	ſ		0	Total Co	over	-				Vegetatio		nt?
	Remarks:			0	Total Co	over			Hydro Yes		Vegetatio No	n Prese x	nt?
SOIL	Pr						ment the indicator or		Yes		No		nt?
	Pr Depth		Matrix			docu	Redox Featu	ires	Yes	of ind	No icators.)		nt?
	Pr			be to depth	needed to	docu			Yes absence	of ind	No		nt?
	Pr Depth (inches)	Color	Matrix %	be to depth	needed to	docu	Redox Featu	res Text	Yes absence	of ind	No icators.)		nt?
	Pr Depth (inches)	Color	Matrix %	be to depth	needed to	docu	Redox Featu	res Text	Yes absence	of ind	No icators.)		nt?
	Pr Depth (inches) 0-18	Color 10YR 3/1	Matrix % 100	color	n needed to	Туре	Redox Featu * Loc**	res Texti Si C	Yes n absence ure	of indi	No icators.) emarks	x	nt?
	Pr Depth (inches) 0-18	Color 10YR 3/1	Matrix % 100	color	n needed to	Type	Redox Featu * Loc** =Coated Sand grains	res Texti Si C	Yes n absence ure	of indi	No icators.)	x	nt?
	Pr Depth (inches) 0-18 *Type:	Color 10YR 3/1 C=Concentra	Matrix % 100	color	n needed to % educed Mati Hydric Sandy I	Type Tix, CS Soil I	Redox Featu * Loc** =Coated Sand grains ndicators: Mineral (S1)	res Texti Si C	Yes n absence ure C L ion: PL=Pc	of indi	No icators.) emarks ng, M=Mat	x :rix (F6)	nt?
	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped	Color 10YR 3/1 C=Concentra	Matrix % 100	color	educed Mate Hydric Sandy I	Type Tix, CS Soil I Mucky	Redox Featu * Loc** =-Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Texti Si C	Yes n absence ure C L ion: PL=Pc Rec Dep	of indi	ng, M=Matk Surface	x :rix (F6) ce (F7)	nt?
	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su	Color 10YR 3/1 C=Concentra don (A2) (A3)	Matrix % 100	color	educed Mate Hydric Sandy I	Type Trix, CS Soil I Mucky Jicky P Gleyec	Redox Featu * Loc** =Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4)	res Texti Si C	yes absence ure L ion: PL=Pc Rec Dep Rec	of indi	No icators.) emarks ng, M=Mat	(F6) ::e (F7) F8)	
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SOIL	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Be Thick Dark S	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Deplet	color	educed Mate Hydric Sandy No Sa	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed	Redox Feature Re	res Texti Si C	rabsence Ure CL Sion: PL=Po Rec Dep Rec Indicate Coa Iron	of indi Report Lini lox Dar leted Depors for F sst Praii -Manga y Shalle	ng, M=Mates Surface Problematic rie Redox	(F6) :e (F7) F8) :A16) ses (F12	Soils 2)
SOIL	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Be	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Deplet	Color	educed Mate Hydric Sandy for Sandy f	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed	Redox Feature Re	**Locati	res absence ure UL ion: PL=Po Rec Dep Rec Indicate Coa Iron Very Oth	of indi Report Lini lox Dar leted Deports for Fast PrainMangay Shalle	mg, M=Mate North Surface Dark Surface Problematic Problematic anese Mas Dark Surface Dark Surface North Surface No	rix (F6) Se (F7) F8) Hydric S (A16) Sees (F12 urface (F	Soils 2)
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Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck Depleted Be Thick Dark S ctive Layer (inched) Remarks: OLOGY Ind Hydrology Surface Wat	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur uurface (A12) if observed): / Indicators: Printer (A1)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	color Color	educed Mate Hydric Sandy N Sandy N Sandy N Strippec Loamy Loamy Deplete	Type Trix, CS Soil I Mucky Jicky P Gleyec Redox d Matr Mucky Gleyec d Matr	Redox Feature Redox	**Locati	res Yes absence ure UL ion: PL=Pc Rec Dep Rec Indicate Coa Iron Ver Oth Yes Sec Surface S	of indi Report Lini lox Dar leted Depors for Fast PrainMangay Shalle er condary	mg, M=Mate North N	rix (F6) se (F7) F8) se Hydric S (A16) ses (F12 urface (F	Soils 2)
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Client: Investi Slope Soil M C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Centersburgic condition N N tances Prese	Lat. rg silt loam, 2 t ns typical for tir , Soil , Soil	State 39.753 o 6 per	261 cent slo ear? or Hy	Long. pes Y/N drology drology	Y	vnship, Range: Landform -82.635187 significantly disturbed naturally problematic	n <u>M</u> Datum	28 March Sectoraines NAD83	n 2024 _ E \$26, T 15I _ Local R _ NWI Cla	N, R 19W elief	
	Hydro	ophytic Vege Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X х	-	Is the Yes	DP within	a Wetland	l?	
Remai	rks: TATION												
	Stratum_	Plot size:			olute % over		ninant ecies	Indicator Statu	JS	Number of		species	1
4. 5. <u>Shrub</u> 1.		Plot size:			0	Total C	Cover			that are Ol Total number species ac Percent of that are Ol Prevalence	cross all st dominant BL, FACW e Index V	rata: species /, or FAC /orkshe	50.00
2. 3. 4. 5. Herb S		Plot size:			0	Total C	Cover			Total S OBL speci FACW speci FAC speci FACU speci UPL speci	ecies _ es _ cies	0 x 0 x 45 x 50 x	2 0 3 135 4 200
1. 2. 3. 4. 5.		3			50 45 5		Y Y N	FACU FAC UPL	4 3 5	Dom Prev	Preva tic Vegeta id Test for ninance Te valence Ind	Hydrophest is >50 dex is <u><</u> 3	licators: nytic Veg. 0% 5.0*
7. 8. <u>Wood</u> 1. 2.	y Vine Stratum	Plot size:			100	Total C				Prob *Indicat hydrol d	ogy must l isturbed o	rophytic V ric soil a be prese r problen	egetation* nd wetland nt, unless natic
-	Remarks:	1			0	Total C	Cover			Hydro _l Yes		-	Present? x
SOIL		file Decerin	tion: (Docori	ho to d	onth no	odod t	o doou	ment the indicator or	oonfirn	n absonos	of indicat	ore \	
	Depth	1	Matrix					Redox Feat	ures				
	(inches) 0-18	Color 10YR 4/3	100	C	olor	%	Туре	* Loc**	Text Si (Rema	arks	
	*Type: (C=Concentra	ation, D=Deple	tion, RN	И=Redu	ced Ma	trix, CS	 S=Coated Sand grains	**Locat	tion: PL=Pc	re Lining,	M=Matri	x
	Histosol (A1) Histic Epipedo		aton, B-Bopio			Hydrid Sandy	Soil I Mucky	ndicators: Mineral (S1) eat or Peat	2000	Red	ox Dark S leted Dark	urface (F	- 6)
	Black Histic (A Hydrogen Sul Stratified Layo 2 cm Muck (A Depleted Belo Thick Dark Su	fide (A4) ers (A5) (10) ow Dark Surf urface (A12)	, ,			Sandy Strippe Loamy Loamy	Redox ed Matr Mucky Gleye			Indicate Coa Iron-	st Prairie I -Mangane:	olematic H Redox (A se Masso	lydric Soils (16)
Restri	ictive Layer (if	observed):	: Type: Depth (Inches	s):				Hydric Soil Pr	esent?	Yes	N	lo	x
	Remarks: OLOGY							-					
	nd Hydrology												
		er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri	nary Indicator:		Water Aquati True A Hydro Oxidiz Presel Recer Thin N	Staine ic Faun Aquatic gen Sul ed Rhiz nce of F	d Leave a (B13) Plants Ifide Octosphe Reduction (Beduction)	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)		Surface So Drainage F Dry-Seaso Crayfish B	Patterns (E on Water T urrows (Co Visible or Stressed ic Positior	(B6) 310) fable (C2 8) Aerial Ir Plants (I n (D2)	t) magery (C9)
	Sparsely Veg Observations ibe Recorded [Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes Oring w	Other	No No No	X X X	Depth (inches) Depth (inches) Depth (inches) ious inspections), if ava	_	loy Indicat Yes			x

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Centersbur gic condition N N tances Prese	N. Barnett Lat. 3 Irg silt loam, 2 to ns typical for time , Soil 1 , Soil 1	State: O 39.743462 6 6 percent see of year? N or N or	OH Sec	g gy N gy N	wnship, Range: Landforn -82.638348 significantly disturbed naturally problematic	Datum	Sec 2 oraines	2024 Data Pc 26, T 15N, R 19 Local Relief NWI Class:	
00	Hydro	ophytic Vege Hydri	etation Present? ric Soil Present? rology Present?	Yes	No No No	X 		Is the Yes	DP within a	Wetland?	
Remar	rks:		ology : recent.					100	110		
	TATION			Absolute 6	% Do	minant					
1. 2. 3. 4. 5.		Plot size:		Cover		pecies	Indicator State	us	Number of that are OB Total numb	dinance Test W dominant specie L, FACW, or FA er of dominant	es o
ο.					Total	Cover	_		Percent of	oss all strata: dominant specie	es
1.	Stratum Pyrus callerya Lonicera maad		15'	40		Y Y	UPL UPL	5 5	that are OB Prevalence	SL, FACW, or FA E Index Worksh b cover of: es 0 cies 0	AC: 0.00
Herb S	Stratum_ Stellaria media Euonymus for		5'	50 50 20	Total	Cover Y	FACU UPL	<u>4</u> 5	FAC specie UPL specie Tota	ties <u>75</u>	x 4 300 x 5 375 675
	Allium vineale			10		N	FACU	4	l Hvdrophyti	ic Vegetation I	
4.	Cirsium arven	nse		10		N	FACU	4	Rapid	d Test for Hydro	phytic Veg.
	Digitaria sang Lamium purpu			5 5		N N	FACU UPL	5	Preva Morp	inance Test is > alence Index is of hological Adapt ematic Hydrophytic	≤3.0* ations*
Woody 1. 2.	y Vine Stratum	_ Plot size:	30'	100	Total	Cover			hydrolo	ors of hydric soil gy must be pres sturbed or probl	sent, unless
				0	Total	Cover				hytic Vegetation	
SOIL	Remarks:								Yes	No	Х
00				e to depth	needed	to doci	ument the indicator or		n absence c	of indicators.)	
	Depth		Matrix %	Color	%		Redox Feat e* Loc**	tures Tex	···r	Remarks	
	(inches) 0-18	Color 10YR 3/2		COIOI	/0	Турс	3 LOC	Si		Remains	
			 	 	_	_		+			
		+		-	+	+		+			
	*Type: C	C=Concentra	ation, D=Depletion	on, RM=Re			S=Coated Sand grains	**Loca	tion: PL=Por	e Lining, M=Ma	trix
	Histosol (A1) Histic Epipedo				Sand 5cm	dy Mucky Mucky F	Indicators: y Mineral (S1) Peat or Peat		Deple	ox Dark Surface eted Dark Surfa	ce (F7)
	Black Histic (A Hydrogen Sulf					dy Gleye dy Redox	d Matrix (S4) k (S5)			ox Depressions (rs for Problemation	
	Stratified Laye	ers (À5)		_	— Stripp	ped Matı	rix (S6)		Coas	t Prairie Redox	(A16)
	2 cm Muck (A Depleted Belo		face (A11)				y Mineral (F1) ed Matrix (F2)			Manganese Mas Shallow Dark S	
	Thick Dark Su				— Depl	eted Mat	trix (F3)		Other		ullace (i 12)
Restri	ctive Layer (if	observed):	: Type:								
	Remarks:		Depth (Inches):	<u>:</u>			Hydric Soil Pr	resent?	Yes	No	Х
	OLOGY										
Wetlar	nd Hydrology			7-1111	111			_	0		
	Surface Water		nary Indicators		tnat app ater Stain		res (B9)			ndary Indicato il Cracks (B6)	ors
	High Water Ta	able (A2)		Aqu	uatic Fau	una (B13	3) ` ´		Drainage P	atterns (B10)	
	Saturation (A3 Water Marks (ie Aquati drogen S				Dry-Seasor Crayfish Bu	Water Table (Ca)	C2)
	Sediment Dep						eres on Living Roots		Saturation \	Visible on Aeria	I Imagery (C9)
	Drift Deposits	(B3)		Pre	esence of	f Reduce	ed Iron (C4)		Stunted or	Stressed Plants	s (D1)
	Algal Mat or C Iron Deposits				cent Iron n Muck S		ion in Tilled Soil (C6)		Geomorphic FAC-Neutra	c Position (D2)	
	Inundation Vis	sìble on Aeria	ial Imagery (B7)		age or W				_1710 1100110	ar 100t (20)	
	Sparsely Vege			Oth			Donth (inches)				
Field (Observations:		ole Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hvdro	lov Indicato	ors Present?	
		Saturation		Yes	No	Х	Depth (inches)	_	Yes	No	х
Descri	be Recorded L	Jata (stream	guage, monitor	ring well, ac	rial phot	.os, prev	vious inspections), if av	allable:			

Client: Investi Slope	igator(s): (%):	AEP N. Houk, N 1-3	I. Barnett Lat.	State 39.737	: <u>OH</u> 525	Section_	on, Tov	airfield County vnship, Range: Landfori -82.641287	m Te		2024 Data P 335, T 15N, R 1 Local Relief NWI Class:		
C Are No	ap Unit Name: limatic/hydrolo Vegetation Vegetation ormal Circumst	gic condition N N N tances Prese	ns typical for ti _, Soil _, Soil	ent slop me of yo N N Yes	ear? or Hy	Y/N drology drology No	N N	significantly disturbed					
SUIVIIV	-	ophytic Vege Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X 	_	Is the Yes	DP within a	wetland?		
Remai	rks:	•							•				
	Stratum	Plot size:	30'	Abso	olute %	Dom	inant	Indicator State	ile				
1. 2. 3.		FIOU SIZE.			over	Spe	ecies		lus	Number of	ninance Test W dominant spec BL, FACW, or F per of dominant	es	e t 1
4. 5.				-							er of dominant ross all strata:		3
<u>Shrub</u> 1. 2.	Stratum_	Plot size:			0	Total C	Cover			Percent of that are OE Prevalence Total %	dominant speci BL, FACW, or F e Index Works 6 cover <u>of:</u>	AC: heet	33.33
3. 4.										OBL specie FACW spe	cies 0	x 1 x 2	0
	Stratum	Plot size:	5'		0	Total C				FAC specie FACU specie UPL specie	cies 70 es 0	x 3 x 4 x 5	90 280 0
1. 2.	Schedonorus Poa pratensis		us		40 30		Y Y	FACU FAC	3	Tota	ıl <u>100</u> Prevalence	Index:	370 3.70
3. 4.	Trifolium repe				20 5		Y N	FACU FACU	4	Hydrophyt	ic Vegetation I d Test for Hydro	ndicator	s:
5.	Plantago lanc				5		N	FACU	4	Dom	inance Test is:	>50%	ey.
6. 7.										Morp	alence Index is hological Adap	tations*	
8.					100	Total C	`over				ematic Hydrophyti	•	
Woods 1. 2.	y Vine Stratum	_ Plot size:	30'		100	Total C	,0vei			hydrolo	ors of hydric so ogy must be pre sturbed or prob	sent, unle	
	Dama aulua	T			0	Total C	over				hytic Vegetati		ent?
SOIL	Remarks:	1								Yes	No	Х	
	Pro Depth		otion: (Descr i Matrix	be to d	epth ne	eded to	o docu	iment the indicator o Redox Fea		n absence o	of indicators.)		
	(inches) 0-18	Color 10YR 3/3	% 100	С	olor	%	Туре	e* Loc**	Tex Si (ture	Remarks		
	0-10	10110 3/3	100						Oi v	O L			
	*Type: (C=Concentra	ation, D=Deple	tion, RN	∕l=Redu	ced Ma	trix. CS	S=Coated Sand grains	**Locat	tion: PI =Po	re Linina. M=Ma	atrix	
	11		2o, 2 2 op.o			Hydrid	Soil	ndicators:	2000		- <u>J</u>		
	Histosol (A1) Histic Epipedo					5cm M	ucky É	Mineral (S1) Peat or Peat		Depl	ox Dark Surface eted Dark Surfa	ace (F7)	
	Black Histic (A Hydrogen Sul					Sandy Sandy		d Matrix (S4)			ox Depressions rs for Problemat		Soils
	Stratified Lave	ers (À5)				Strippe	d Matr	rix (S6)		Coas	st Prairie Redox	(A16)	
	2 cm Muck (A Depleted Beld	(10) ow Dark Surf	face (A11)			Loamy	Gleye	/ Mineral (F1) d Matrix (F2)			Manganese Ma Shallow Dark S		
Rostri	Thick Dark Suictive Layer (if					Deplet	ed Mat	rix (F3)		Othe	r		
		obsciveu).	Depth (Inche	s):				Hydric Soil P	resent?	Yes	No	x	
	Remarks: OLOGY												
Wetla	nd Hydrology		nary Indicator	s (chec	k all th	at appl	v)		1	Seco	ondary Indicate	ors	
	Surface Wate	er (A1)	nary marcator		Water	Staine	d Leav			Surface So	il Cracks (B6)		
	High Water Ta Saturation (A3					ic Faun Aquatic					atterns (B10) n Water Table (C2)	
	Water Marks Sediment Dep			-				dor (C1) res on Living Roots		Crayfish Bu	urrows (C8) Visible on Aeria	al Imagery	v (C9)
	Drift Deposits	(B3)			Prese	nce of F	Reduce	ed Iron (C4)		Stunted or	Stressed Plant	s (D1)	y (OO)
	Algal Mat or C Iron Deposits					nt Iron F Nuck Su		on in Tilled Soil (C6) (C7)	-		c Position (D2) al Test (D5)		
	Inundation Vis	sìble on Aeri		7)		e or We				_	` ,		
Field (Observations:	Surface W	ater Present?	Yes	Outel	No	Х	Depth (inches)	1				
		Saturation		Yes Yes		No No	X X	Depth (inches) Depth (inches)		loy Indicate Yes	ors Present? No	x	
Descri	ibe Recorded D				ell, aeria			ious inspections), if av	ailable:				

Client: Investi Slope	igator(s):	AEP N. Houk, N 1-3	I. Barnett Lat.	State 39.735	: <u>OH</u> 590	Secti	on, Tov	airfield County vnship, Range: Landfor 82.641314	m Te		2024 Data P 34, T 15N, R 1 Local Relief NWI Class:	
C Are No	limatic/hydrolog Vegetation Vegetation Ormal Circumst	gic condition N N ances Prese	ns typical for til , Soil , Soil	me of y N N Yes	ear? or Hy		<u>Ү</u> <u>N</u> у <u>N</u>	significantly disturbe naturally problematio				
	Hydro W	phytic Vege Hydri	tation Present ic Soil Present rology Present	? Yes		No No No	X X		Is the Yes	DP within a	wetland?	
Rema	rks: TATION								-			
	Stratum_	Plot size:			olute % over		ninant ecies	Indicator Sta	itus		ninance Test W	
2. 3. 4. 5.										that are OE Total numb	dominant speci BL, FACW, or F er of dominant	
Shrub 1.	Stratum Pyrus callerya	Plot size:	15'		0 40	Total (UPL	5	Percent of that are OE Prevalence	ross all strata: dominant speci BL, FACW, or F e Index Works	AC: 33.33
2. 3. 4. 5.										Total % OBL specie FACW spe FAC specie	cies 0	x 1 0 x 2 0 x 3 120
<u>Herb S</u> 1.	Stratum_ Andropogon v	Plot size:			40	Total (Cover	FACU	4	FACU specie UPL specie Tota	ties 45 es 45 I 130	x 4 180 x 5 225 525
2. 3. 4. 5.	Verbena urtici Daucus carota Solidago cana	ifolia a			30 10 5 5		N N N	FAC FAC UPL FACU	3 3 5 4	Rapi	Prevalence ic Vegetation I d Test for Hydro inance Test is a	Indicators: ophytic Veg.
6. 7. 8.						-			•	Preva Morp	alence Index is hological Adap ematic Hydrophyti	≤3.0* tations*
Wood 1. 2.	y Vine Stratum	_ Plot size:	30'		90	Total (Jover	-		hydrolo	ors of hydric soi ogy must be pre sturbed or prob	sent, unless
	Remarks:				0	Total (Cover			Hydrop Yes	hytic Vegetati No	on Present?
SOIL		('l- D'-	/D									
	Depth		Matrix	be to c	eptn ne			ıment the indicator o Redox Fea		n absence o	-	
	(inches) 0-7	Color 10YR 3/3	% 100	(color	%	Туре	e* Loc**		ture C L	Remarks	
	7-18	10TR 3/3	100							-		
	*Type: C	C=Concentra	ation, D=Deple	tion, RI	M=Redu			S=Coated Sand grains Indicators:	s **Loca	tion: PL=Poi	re Lining, M=Ma	atrix
	Histosol (A1)					Sandy	Mucky	Mineral (S1)			x Dark Surface	
	Histic Epipedo Black Histic (A							eat or Peat d Matrix (S4)			eted Dark Surfa ox Depressions	
	Hydrogen Sulf	fide (A4)				Sandy	Redox	(S5) `´		Indicato	rs for Problemat	ic Hydric Soils
	Stratified Laye 2 cm Muck (A	ers (A5) 10)					ed Matr	ix (S6) / Mineral (F1)			st Prairie Redox Manganese Ma	
	Depleted Belo	w Dark Surf				Loamy	, Gleye	d Matrix (F2)		Very	Shallow Dark S	
Doctri	Thick Dark Suictive Layer (if					Deplet	ted Mat	rix (F3)		Othe	r	
Kesui	ctive Layer (ii	observeu).	Depth (Inches	s):				Hydric Soil F	Present?	Yes	No	x
	Remarks: OLOGY											
	nd Hydrology	Indicators:										
	Surface Wate		nary Indicator	s (che				es (B9)			ondary Indicato il Cracks (B6)	ors
	High Water Ta						na (B13				atterns (B10)	
	Saturation (A3						Plants				n Water Table (C2)
	Water Marks (Sediment Dep							dor (C1) res on Living Roots		Crayfish Bu Saturation	Visible on Aeria	al Imagery (C9)
	Drift Deposits	(B3)			Prese	nce of	Reduce	ed Iron (C4)		Stunted or	Stressed Plants	s (D1)
	Algal Mat or C Iron Deposits						Reducti urface (on in Tilled Soil (C6) (C7)			c Position (D2) al Test (D5)	
	Inundation Vis	sible on Aeri		7)	Guage	e or We	ell Data				()	
Field	Sparsely Vege Observations:			Yes	Other	No	Х	Depth (inches)				
, iciu	- 20001 ValiO115.	Water Tab	le Present?	Yes		No	х	Depth (inches)	Hydro		ors Present?	
Descri	ibe Recorded D	Saturation Data (stream		Yes oring w	ell, aeria	No al photo	x os, prev	Depth (inches) ious inspections), if a	vailable:	<u>Yes</u>	No	Х

Client: Investi Slope Soil M	igator(s):	AEP N. Houk, N 1-3 Aetna silt legic condition	I. Barnett Lat. oam, occasion	State: 39.7311	96 ded ar? or Hy	Section Long. Y/N rdrology	n, Tov	uirfield County vnship, Range: Landform -82.636576 significantly disturbed naturally problematic	n Floo Datum		2024 Data 335, T 15N, R Local Relied NWI Class:	19W	20 Convex N/A
	ormal Circumst	ances Prese	ent?	res .	Х			-					
	Hydro W	phytic Vege Hydri	tation Present ic Soil Present rology Present	? Yes		No No No	X X X	_	Is the Yes	DP within a	wetland?		
Remai VEGE	rks: TATION												
1. 2. 3. 4.		Plot size:			lute % over	Dom Spe		Indicator Statu	IS	Number of	ninance Test dominant spe BL, FACW, or per of domina	ecies	heet 0 3
1. 2. 3.	Stratum_	Plot size:	15'		0	Total C	over			Percent of that are OE Prevalenc Total 9 OBL specie	ross all strata dominant spe BL, FACW, or e Index Worl cover of:	FAC: sheet	0.00
4. 5. Herb 5 1. 2. 3. 4. 5.	Stratum Glycine max r Stellaria media Lamium purpu	а	5'	4	0 40 40 20		over Y Y	UPL FACU UPL	5 4 5	Rapi	es dies 4	e Index Indica drophyti	itors:
6. 7. 8.					00	Total C				Prev Morp Probl *Indicate hydrole	alence Index shological Add ematic Hydroph ors of hydric s ogy must be p sturbed or pro- phytic Vegeta	is ≤3.0* aptation: ytic Vege soil and resent, oblemat	s* etation* wetland unless ic
	Remarks:									Yes	No	Х	
SOIL				oe to de	epth ne	eded to	docu	ment the indicator or		n absence	of indicators	.)	_
	Depth (inches)	Color	Matrix %	Co	olor	%	Туре	Redox Feature* Loc**	ures Text	ture	Remarks		
	0-18	10YR 4/2	100						Si (CL			
	*Type: C	=Concentra	ation, D=Deplet	ion, RM	l=Redu			S=Coated Sand grains ndicators:	**Locat	tion: PL=Po	re Lining, M=	Matrix	
Restri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	. ,			Sandy 5cm M Sandy Sandy Strippe Loamy	Mucky ucky P Gleyed Redox d Matr Mucky Gleye	Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas Iron-	ox Dark Surfa eted Dark Su ox Depression rs for Problem et Prairie Red Manganese N Shallow Darl r	rface (F is (F8) atic Hyd ox (A16) Masses	ric Soils) (F12)
	- '	Obsci vedj.	Depth (Inches):				Hydric Soil Pr	esent?	Yes	No	х	
	Remarks: OLOGY												
Wetla	nd Hydrology		nary Indicators	s (chec	k all th	at annly	٨		1	Sec	ondary Indica	ators	
	Sparsely Vege	r (A1) able (A2) B) (B1) sosits (B2) (B3) crust (B4) (B5) sible on Aerietated Conc	al Imagery (B7 ave Surface)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained ic Fauna Aquatic gen Sulted Rhized Rhized Iron Ruck Sulted Iron	d Leaver (B13) Plants fide Octobre (B13) Plants (B13) Pla	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ill Cracks (B6 latterns (B10) n Water Table urrows (C8) Visible on Ae Stressed Pla c Position (D al Test (D5)) e (C2) rial Ima nts (D1)	gery (C9)
	Observations: ibe Recorded D	Water Tab Saturation	le Present? Present?	Yes Yes Yes oring we	II, aeria	No No No al photos	x x x s, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if ava	_	loy Indicate Yes	ors Present? No	x	

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Aetna silt legic condition N N ances Prese	Lat. coam, occasiona is typical for tin , Soil , Soil	State: 39.7250	OH 039 ded ar? or Hy	Long. Y/N rdrology	on, Tov	airfield County vnship, Range: Landforn -82.632003 significantly disturbed naturally problematic	m Floo Datum		2024 Data S2, T 14N, R Local Relief NWI Class:	19W C	15 onvex N/A
SOIVIIV	Hydro	phytic Vege Hydri	tation Present? c Soil Present? rology Present?	Yes	X	No No No	X	-	Is the Yes	DP within a	a Wetland?		
Remar	ks:		ology i rocciii	100		110			100	140			
	TATION			Abso	lute %	Don	ninant						
Tree S 1. 2. 3. 4. 5.		Plot size:			ver		ecies	Indicator Stat	us	Number of that are OE Total numb	ninance Test dominant spe BL, FACW, or per of dominant ross all strata:	cies FAC: it	2 3
					0	Total C	Cover			Percent of	dominant spe	cies	66.67
	Stratum Sambucus cai	Plot size: nadensis			2		N	FACU	4	Prevalence	cies 30	_	00.07 0 60 120
<u>Herb S</u> 1. 2.	Stratum Poa pratensis Conium macu	latum	30'	2	20	Total (Y Y	FAC FACW	3 2	FACU species Total	cies 2 es 20 al 92 Prevalenc	x 4 x 5 e Index	8 100 288 : 3.13
3. 4. 5. 6. 7. 8.	Echinacea pai Phalaris aruno				20		Y N	UPL FACW	5 2	Rapi x Dom Prev Morp	ic Vegetation d Test for Hyd inance Test is alence Index i phological Ada ematic Hydrophy	rophyti >50% s <3.0* ptation	c Veg. s*
Woods 1. 2.	/ Vine Stratum	Plot size:	5'		0	Total (hydrold di	ors of hydric sogy must be prosturbed or prophytic Vegeta	esent, blemat	unless ic
F	Remarks:				U	Total	Jovei			Yes	x No	uon Fi	esent:
SOIL	Pro	file Descrin	tion: (Describ	e to de	nth ne	adad t	o doci	ment the indicator o	r confirm	n ahsence (of indicators	`	
	Depth	Ī	Matrix		-			Redox Feat	tures			,	
	(inches) 0-18	Color 10YR 3/2	% 100	Co	olor	%	Туре	* Loc**		ture C L	Remarks		
	0.10												
	*T) Canada	tion D Domint	- DM	D = 4	d N/-	4=:	Cooted Condension	**!	tion DI Do	un Linina M. N	A 4 min -	
	Type: C	=Concentra	illon, D=Deplet	ion, Kivi	=Redu			S=Coated Sand grains ndicators:	Loca	uon. PL=Po	re Lining, M=N	лашх	
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	A3) (Sandy 5cm M	Mucky lucky P Gleyed	Mineral (S1) leat or Peat d Matrix (S4)		Depl Redo	ox Dark Surfact eted Dark Sur ox Depression rs for Problema	face (F s (F8)	,
	Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	ers (À5) [′] 10) w Dark Surf				Strippe Loamy Loamy	ed Matr Mucky Gleye	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)		Coas	st Prairie Redo Manganese M Shallow Dark	x (A16 asses) (F12)
Restri	ctive Layer (if	observed):							***************	Vaa	N-	.,	
F	Remarks:		Depth (Inches).				Hydric Soil P	resent?	Yes	No	Х	
	OLOGY nd Hydrology	Indicators											
vveliai		Prim	nary Indicators	(chec						Seco	ondary Indica	tors	
	Sparsely Vege	r (A1) able (A2) b) B1) sosits (B2) (B3) rust (B4) (B5) ible on Aerietated Conce	al Imagery (B7) ave Surface		Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Staine ic Faun Aquatic gen Su ed Rhiz nce of I nt Iron F Muck Su e or We	d Leav la (B13 Plants Ifide Oo zosphe Reducti Reducti urface (ell Data	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	oil Cracks (B6) Patterns (B10) In Water Table Urrows (C8) Visible on Aer Stressed Plar Ic Position (D2 In Test (D5)	(C2) ial Ima	gery (C9)
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes ring we	II. aeria	No No No al photo	X X X s. prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av		loy Indicato Yes	ors Present? No	x	

Client: Invest Slope Soil M C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Urban land gic condition N N tances Prese	Lat. 3 J-Bennington cons typical for time, Soil, Soil	State:	OH 39 0 to 6 p ar? or Hyd	Long. Dercent Y/N drology drology	slopes Y		m Til Datum	Il Plains L	D24 Data Poir , T 14N, R 19W Ocal Relief JWI Class:	nt: 13 V Convex NA
SUMIN	Hydro	ophytic Vege Hydri	etation Present? ic Soil Present? rology Present?	Yes		No No No	X	-	Is the Yes	DP within a W		
Rema	rks:	reliand riyul	ology Fresent:	res		INO	X		res	No	Х	
VEGE	TATION			Absolu	ıto 9/	Dom	inant			<u> </u>		
1. 2. 3. 4. 5.		Plot size:		Cov	er		cies	Indicator Stat	us	Number of do	ance Test Wominant species FACW, or FACO of dominant	5 1
Shrub 1. 2. 3. 4.	Stratum	Plot size:	15'	0		Total C	over			Percent of dor that are OBL, Prevalence Ir Total % co OBL species FACW specie	minant species FACW, or FAC ndex Workshe over of: 0	2: 33.33 eet 0 1 0 2 0
5. Herb 5 1. 2. 3. 4. 5. 6. 7.		deracea ens		60 20 20)		over Y Y Y	FAC FACU FACU	3 4 4	Rapid T Domina Prevale	s = 60 x 40 x 100 x Prevalence In Vegetation Inc est for Hydrop ince Test is >5 ince Index is ≤ logical Adaptat	4 160 5 0 340 ddex: 3.40 dicators: hytic Veg. 0% 3.0*
8. <u>Wood</u> 1. 2.	y Vine Stratum Remarks:	_ Plot size:		10		Total C				Problema *Indicators hydrology distu	atic Hydrophytic \ of hydric soil a must be prese rbed or probler rtic Vegetation	Vegetation* and wetland ent, unless matic
SOIL	Dro	filo Docorir	tion: (Dosorih	o to do	ath no	adad te	doou	ment the indicator o	r oonfirn	n absonae of i	indicators \	
	Depth		Matrix	e to de	our ne	eueu i	uocu	Redox Fea		ii absence or i	ndicators.)	
	(inches)	Color	%	Col	or	%	Туре	* Loc**		ture	Remarks	
	0-18	10YR 4/2	100						Sit	CL		
		+										
	*Type: (:=Concentra	tion D=Denleti	on RM-	-Redu	red Mat	rix CS	=Coated Sand grains	**Loca	tion: PL=Pore L	ining M-Matr	iy
	турс. С	2=OUNCETHIE	mon, b-bepien	OII, IXIVI-	-i (Caa			ndicators:	Loca	tion. T L=1 old L	-iriirig, ivi–iviati	ix .
Rostri	Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye- 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) (10) ow Dark Surf urface (A12)	. ,	- - - - - -		5cm Me Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matri Mucky Gleyed	ix (Ś6) [,] Mineral (F1) d Matrix (F2)		Deplete Redox I Indicators f Coast P Iron-Ma	Dark Surface (Fed Dark Surface (Fed Dark Surface Depressions (Fed Problematic Fed Fed Prairie Redox (Fed Fed Park Surface	e (F7) '8) Hydric Soils A16) ses (F12)
	otive Layer (ii	observedy.	Depth (Inches)					Hydric Soil P	resent?	Yes	No	x
	Remarks: OLOGY											
	nd Hydrology	Indicators:										
		Prim	nary Indicators					(DO)			dary Indicators	ŝ
	Sparsely Vege	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerie			Aquati True A Hydroo Oxidiz Preser Recen Thin M	ed Rhiz	a (B13) Plants fide Oc ospher Reduce eduction	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Crayfish Burro	erns (B10) Vater Table (C2 ows (C8) sible on Aerial I ressed Plants (Position (D2)	magery (C9)
	Observations:	Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes	0.5	No No No	X X X	Depth (inches) Depth (inches) Depth (inches)	-	loy Indicators Yes	Present? No	х
Descri	ine vecolaed r	zata (stream	guage, monito	iing well	, aeria	ı buotos	s, previ	ous inspections), if av	aliable:			

Client: Investi Slope Soil M	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Marengo c	N. Barnett Lat. clay loam	State 39.718	: <u>OH</u> 202	Section Long.	on, Tov	uirfield County vnship, Range: Landforn 	n Til	28 March Sec Il Plains NAD83	2024 Data F S3, T 14N, R 1 Local Relief NWI Class:	9W Cor	11 nvex IA
Are No	limatic/hydrolo Vegetation Vegetation ormal Circumst MARY OF FIND	n N N tances Prese	_, Soil _, Soil ent?	N N Yes	or Hy	No	N N	significantly disturbed naturally problematic	i				
	V	Hydri	etation Presen ic Soil Presen rology Presen	t? Yes		No No No	Х Х Х	-	Is the Yes	DP within a	Wetland?		
Rema	rks: TATION												
	Stratum	Plot size:			olute % over		inant cies	Indicator Stat	us	Number of	ninance Test V dominant spec BL, FACW, or F per of dominant	cies	0
5. <u>Shrub</u> 1. 2. 3.	Stratum_	Plot size:	15'		0	Total C	cover			Percent of that are OF Prevalence	ross all strata: dominant spec BL, FACW, or F e Index Works 6 cover of: es 0	AC: sheet x 1	0.00
4. 5. Herb § 1. 2. 3. 4. 5. 6.	Stratum Dactylis glom Schedonorus Lamium purpu	arundinace	<u>5'</u> us		0 75 20 5		Cover Y Y N	FACU FACU UPL	4 4 5	FAC specie FACU specie UPL specie Tota Hydrophyt Rapi Dom	es <u>0</u> cies <u>95</u> es <u>5</u>	Indicate ophytic \ >50%	0 380 25 405 4.05 ors:
7. 8. <u>Wood</u> 1. 2.					0	Total C				Morp Proble *Indicate hydrole di	chological Adapematic Hydrophytors of hydric so ogy must be prosturbed or prob sturbed or prob bhytic Vegetat No	otations* cic Vegetate oil and we esent, ur olematic	etland nless
SOIL													
	Pro Depth		otion: (Descr Matrix	ibe to d	epth ne	eded to	docu	ment the indicator of Redox Feat		n absence	of indicators.)		
	(inches) 0-18	Color 10YR 3/2	%	C	olor	%	Туре	* Loc**	Text		Remarks		
	*Type: (C=Concentra	ation, D=Deple	etion, RN	/I=Redu	ced Mat	trix, CS	S=Coated Sand grains	**Locat	tion: PL=Po	re Lining, M=M	atrix	
	Histosol (A1)							ndicators: Mineral (S1)		Pode	ox Dark Surface	o (E6)	
Rostri	Histic Epipedd Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) Ifide (A4) ers (A5) A10) ow Dark Surl urface (A12)	, ,			5cm Me Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleye	leat or Peat d Matrix (S4) (S5) ix (S6) v Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas Iron-	eted Dark Surf ox Depressions rs for Probleman st Prairie Redox Manganese Ma Shallow Dark	ace (F7) s (F8) sic Hydric x (A16) asses (F	: Soils 12)
		obsciveu).	Depth (Inche	:s):				Hydric Soil P	resent?	Yes	No	x	
	Remarks: OLOGY											-	
	nd Hydrology												
	Surface Water High Water Taturation (AS Water Marks Sediment Deposits Algal Mat or Caron Deposits Inundation Vis Sparsely Veg	er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc	ave Surface	7)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained ic Fauna Aquatic gen Sulted Rhized Rhized Iron Ruck Sulted Iron	d Leaver (B13) Plants (Fide Octoor (B14) Pla	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seaso Crayfish Bu Saturation Stunted or Geomorphi	ondary Indicated il Cracks (B6) atterns (B10) an Water Table urrows (C8) Visible on Aeris Stressed Plant c Position (D2) al Test (D5)	(C2) al Image s (D1)	ry (C9)
	Observations: ibe Recorded D	Water Tab Saturation	le Present? Present?	Yes Yes	ell, aeria	No No No al photos	x x x s, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av	-	loy Indicato Yes	ors Present? No	x	

Client: Investi Slope Soil M C	igator(s):	AEP N. Houk, N 3-5 Amanda si gic condition N N ances Prese	I. Barnett Lat. It loam, 12 to 2 as typical for tim, Soil , Soil	State 39.714 0 perce	: OH 393 ent slop ear? or Hy	Long. es, eroc Y/N drology drology	led Y	irifield County vnship, Range: Landforn -82.641548 significantly disturbed naturally problematic	n Till Datum	Plains1	2024 Da S3, T 14N, Local Rel NWI Clas	R 19W ief	8A Convex NA
SOMIN	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	Yes		No No No	X X X	-	Is the Yes	DP within a	a Wetland?		
Rema	rks:		ology : Toodin:	100		110	Λ		1100	110			
	TATION			Ahsc	lute %	Dom	inant			l			
1. 2. 3. 4. 5.		Plot size:			over		cies	Indicator State	us	Number of that are Of Total numb species ac	ninance Te dominant s BL, FACW, per of dominates	pecies or FAC: nant ta:	1 3
Shrub 1. 2. 3. 4.	Stratum Sassafras alba Rosa multiflora Rubus alleghe Rubus occent	a eniensis	15'		75 10 5	- 1	over Y N N	FACU FACU FACU UPL	4 4 4 5	Percent of that are OE Prevalenc Total % OBL specie FACW spe	dominant s BL, FACW, e Index Wo 6 cover of: es cies	pecies or FAC: or ksheet $\frac{0}{0}$ x 1 $\frac{0}{0}$ x 2	0
5. Herb 5 1. 2. 3. 4. 5.	Stratum Dactylis glome Geum canade Alliaria petiola	ense	5'		95 50 20 10		over Y Y	FACU FAC FAC	4 3 3	Rapi	cies 1 es Il 1	lydrophy	560 25 675 3.86 cators: tic Veg.
6. 7. 8.		_ Plot size:			80	Total C				Prev Morp Probl *Indicate hydrole	alence Inde bhological A ematic Hydro ors of hydric ogy must be sturbed or p bhytic Vege	ex is <3.0 daptation phytic Veg c soil and present problema	ns* ns* getation* d wetland , unless atic
	Remarks:				-					Yes	No		
SOIL	Depth (inches) 0-8 8-18	Color 10YR 3/2 10YR 4/3	Matrix	С	olor	%	Туре	Redox Feat * Loc** S=Coated Sand grains	ures Text Si (ture C L	Remarl	KS .	
	туре. С	-Concentra	ition, D-Depieti	ion, ixi	n=r\euu	Hydric	Soil I	ndicators:	Local	uon. i L–i o	ie Lilling, iv	I-IVIALITA	
Restri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	Type:			5cm Ma Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleyed	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)		Depl Redo Indicato Coas Iron- Very Othe		Surface (ons (F8) ematic Hy edox (A1 e Masses ark Surfa	F7) dric Soils 6) 5 (F12)
	Domorko:		Depth (Inches)):				Hydric Soil Pi	esent?	Yes	No	X	
	Remarks: OLOGY												
Wetla	nd Hydrology			/-l	111 41-	- 1 1			1	0			
	Sparsely Vege	r (A1) able (A2) b) (B1) sosits (B2) (B3) crust (B4) (B5) sible on Aerie			Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained of Fauna Aquatic gen Sul ed Rhiz nce of F	d Leave a (B13) Plants fide Oc osphe Reduce eduction	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ondary Indi il Cracks (E ratterns (B1 n Water Tal urrows (C8) Visible on A Stressed P Ic Position (al Test (D5)	86) 0) ble (C2) Aerial Ima lants (D1 [D2)	agery (C9))
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes ring we	ell, aeria	No No No Il photos	x x x s, previ	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av		loy Indicato Yes	ors Present No		

Client: Investi Slope Soil M C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	Lat. 3 It loam, 6 to 12 is typical for tim , Soil , Soil	State: 9.7124 percent	OH 51 slope: ar? or Hy	Long. s, erode Y/N drology drology	n, Tow	irfield County vnship, Range: Landform -82.641544 significantly disturbed naturally problematic	n Till Datum		2024 Data Po 53, T 14N, R 19 Local Relief NWI Class:	
SOIVIIV	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	Yes		No No No	X		Is the I	DP within a	Wetland?	
Remai	rks:	vollaria i iyal	ology i roconi.	103		110			103	110	^	
	TATION			Absol	ıte %	Dom	inant					
1. 2. 3. 4. 5.		Plot size:		Cor			cies	Indicator Statu		Number of on that are OBI Total number	inance Test Wo dominant specie L, FACW, or FA er of dominant	es ₁
5.)	Total C	over			Percent of d	oss all strata: Iominant specie	s 25.00
Shrub 1. 2. 3. 4. 5.	Stratum Rubus occend Rosa multiflor		15'	1 3			Y N	UPL FACU	5 4	that are OBI Prevalence	L, FACW, or FA Index Worksh cover of: s 0 > sies 0 >	C: 25.00 eet 0 0
	Stratum_ Dactylis glome	Plot size:	5'	3		Total C	over Y	FACU		FACU species UPL species Total	ies <u>73</u> > s <u>10</u> >	< 4 <u>292</u>
2.	Panicum virga			3			<u>'</u> Y	FAC	3	Total	Prevalence I	
3.	Solidago cana	adensis		2			Y	FACU			c Vegetation In	ndicators:
4. 5. 6. 7. 8.	Schedonorus Taraxacum of						N N	FACU FACU	4	Domir Preva Morph	I Test for Hydrop nance Test is > Ilence Index is \(\) nological Adapta matic Hydrophytic	50% <3.0* ations*
	y Vine Stratum	_ Plot size:	30'	10	00	Total C	over	-		*Indicato	rs of hydric soil gy must be pres sturbed or proble	and wetland ent, unless
۷.	-)	Total C	over			Hydropl	hytic Vegetatio	n Present?
	Remarks:									Yes	No	Х
SOIL	Pro	file Descrip	tion: (Describ	e to de	pth ne	eded to	docu	ment the indicator or	confirm	n absence o	f indicators.)	
	Depth		Matrix	0-		0/	T	Redox Feat			Damada	
	(inches) 0-4	Color 10YR 3/3	% 100	Co	lor	%	Туре	* Loc**	Text Si		Remarks	
	4-18	10YR 4/4	100						Si C			
	*Type: C	C=Concentra	tion, D=Depleti	on, RM	=Redu			S=Coated Sand grains	**Locat	ion: PL=Pore	e Lining, M=Mat	rix
	Histosol (A1)							ndicators: Mineral (S1)		Redo	x Dark Surface	(F6)
	Histic Epipedo	on (A2)		,				eat or Peat	•		ted Dark Surface	
	Black Histic (A Hydrogen Sulf							Matrix (S4)			x Depressions (s for Problematic	
	Stratified Laye					Sandy Strippe	redox d Matr	(SS) ix (S6)			t Prairie Redox (
	2 cm Muck (A	.10)				Loamy	Mucky	Mineral (F1)		Iron-N	/langanese Mas	ses (F12)
	Depleted Belo Thick Dark Su		ace (A11)			Loamy	Gleye	d Matrix (F2)		Very S Other	Shallow Dark Su	urface (F12)
Restri	ctive Layer (if		Type:			Depicte	o iviat	11x (1 3)		Otrier		
			Depth (Inches)	:				Hydric Soil Pr	esent?	Yes	No	х
	Remarks: OLOGY											
	nd Hydrology											
	Surface Wate		nary Indicators	(check		at apply Stained		as (R9)			ndary Indicato l Cracks (B6)	rs
	High Water Ta				Aquati	ic Fauna	a (B13))		Drainage Pa	atterns (B10)	
	Saturation (A3					Aquatic I					Water Table (C	;2)
	Water Marks (Sediment Dep							dor (C1) res on Living Roots		Crayfish Bur Saturation V	/isible on Aerial	Imagery (C9)
	Drift Deposits	(B3)			Prese	nce of F	Reduce	ed Iron (C4)		Stunted or S	Stressed Plants	(D1)
	Algal Mat or C Iron Deposits					it Iron R Iuck Su		on in Tilled Soil (C6)		Geomorphic FAC-Neutra	Position (D2)	
			al Imagery (B7)			or We				i AO-INGUIIA	1 cot (D0)	
	Sparsely Vege	etated Conc	ave Surface		Other							
Field (Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hydrol	loy Indicator	rs Present?	
		Saturation	Present?	Yes		No	Х	Depth (inches)		Yes	No No	x
Descri	be Recorded D	Data (stream	guage, monito	ring wel	l, aeria	l photos	s, prev	ious inspections), if ava	ailable:			

Client: Invest Slope Soil M C	: igator(s): (%): lap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	Lat. ilt loam, 6 to 12 ns typical for tin , Soil , Soil	State 39.707	972 nt slope ear? or Hy	Long. s Y/N drology drology	n, Tov	nirfield County vnship, Range: Landfor -82.640540 significantly disturbed naturally problemation	rm Ti Datum		n 2024 Data S10, T 14N, Local Relia NWI Class	R 19W efC	5A Convex NA
SUMIN	Hydro	ophytic Vege Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X X X	_	Is the Yes	DP within a	a Wetland?		
Rema	rks:	volidi la riyal	ology i resent	. 163		NO	^		1163	110	^		
	TATION			Ahsc	olute %	Dom	inant			1			
1. 2. 3. 4. 5.		Plot size:			over	Spe	cies	Indicator Sta	atus	Number of that are Ol Total numb	ninance Tes dominant sp BL, FACW, o per of domina cross all strat	ecies r FAC: ant	0 2
Shrub 1. 2. 3. 4.	<u>Stratum</u>	Plot size:	15'		0	Total C	over			Percent of that are Ol Prevalence	dominant sp BL, FACW, on the Index Work cover of: es ecies	ecies r FAC: ksheet 0 x 1 0 x 2	0.00
5. Herb 5 1. 2. 3. 4. 5. 6. 7.	Stratum Zea mays res Stellaria medi Lamium purpi	ia	5'		0 60 20 10		over Y Y N	UPL FACU UPL	5 4 5	FACU speci UPL speci Tota Hydrophy Rap Dom Prev	cies 2 es 7	on Indica drophyti is >50% is <3.0*	80 350 430 4.78 ators: c Veg.
8. <u>Wood</u> 1. 2.	y Vine Stratum				90	Total C				Prob *Indicat hydrold d	lematic Hydrop ors of hydric ogy must be isturbed or p ohytic Veget	hytic Vege soil and present, roblemat	etation* wetland unless ic
SOIL	Pro	file Descrin	tion: (Descri	he to d	enth ne	eded to	doci	ment the indicator	or confirm	n ahsanca	of indicator	١ ء	
	Depth		Matrix	JC 10 G	срит по	caca ic		Redox Fea		ii absciice	or intuicator.	3.,	7
	(inches)	Color	%	С	olor	%	Туре	e* Loc**		ture	Remark	S	
	0-18	10YR 4/4	100						51	L			_
													-
]
	*Type: (C=Concentra	tion D=Deplet	ion. RN	/l=Redu	ced Mat	rix. CS	S=Coated Sand grain	s **Loca	tion: PI =Po	re Linina. M=	-Matrix	_
	1,70. (<u>5-00110011110</u>	mon, B-Bopion		<u> </u>	Hydric	Soil I	ndicators:	0 2000		TO Elling, Wi	-iviation	
Postri	_ Histosol (A1) _ Histic Epiped _ Black Histic (, _ Hydrogen Sul _ Stratified Lay _ 2 cm Muck (A _ Depleted Belc _ Thick Dark Su ictive Layer (if	A3) Ifide (A4) ers (A5) A10) ow Dark Surf urface (A12)	. ,			5cm Mi Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleye	ix (Ś6) / Mineral (F1) d Matrix (F2)		Dep Red Indicate Coa Iron-	ox Dark Surfaleted Dark Si ox Depressions for Probler st Prairie Real-Manganese or Shallow Darer	urface (F ns (F8) natic Hyd dox (A16 Masses	ric Soils) (F12)
ivesu i	ictive Layer (ii	observeu).	Depth (Inches):				Hydric Soil I	Present?	Yes	No	x	
	Remarks:						_	-					
	nd Hydrology	Indicators:											
		Prin	nary Indicators	s (chec							ondary Indic		
	Sparsely Veg	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc)	Aquat True A Hydro Oxidiz Prese Recer Thin N	ed Rhiz	a (B13) Plants fide Od osphe Reduce educti rface ((B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	oil Cracks (Bional Cracks) atterns (B10 n Water Taburrows (C8) Visible on Stressed Plaic Position (In Position (D5))	n) le (C2) erial Imag ants (D1)	gery (C9)
	Observations	: Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes	all acric	No No No	X X X	Depth (inches) Depth (inches) Depth (inches) ious inspections), if a	-	loy Indicate Yes	ors Present	? x	
_ 55011		- 3.5 (Oli Oui II	2~~go,or.iic	·····9 **	, 40116		۰, ۲.۰۷						

Client: Investi Slope Soil M	tigator(s): (%): lap Unit Name: Climatic/hydrolog Vegetation	AEP N. Houk, N 1-3 Amanda s gic condition N	I. Barnett Lat. Ilt loam, 6 to 12 ns typical for tir , Soil	State: OH 39.704089 2 percent slope ne of year? N or Hy	Long. s, eroded Y/N drology N	significantly disturbed	n Till Datum	28 March 2024 Data Sec S10, T 14N, R Plains Local Relief NAD83 NWI Class:	19W Convex
	Vegetation ormal Circumst	ances Pres	, Soil ent?	N or Hy Yes x		naturally problematic			
SUMM	-	phytic Vege Hydr	etation Present ic Soil Present	? Yes			Is the D	P within a Wetland?	
Rema		Vetland Hyd	rology Present	? Yes	No x		Yes	No x	
VEGE	TATION			Alarahata O/	D				
1. 2. 3.		Plot size:			Dominan Species	Indicator Statu	1	Dominance Test Number of dominant spe hat are OBL, FACW, or Total number of dominan	cies
4. 5. <u>Shrub</u> 1. 2.	Stratum	Plot size:	15'	0	Total Cover		S F	oral number of dominan species across all strata: Percent of dominant speci- hat are OBL, FACW, or Prevalence Index Work Total % cover of:	cies 0.00
3. 4. 5.		Plot size:		0	Total Cover		F F	OBL species 0 FACW species 0 FAC species 0 FACU species 100	x 1 0 x 2 0 x 3 0 x 4 400 x 5 0
1. 2. 3. 4. 5.	Schedonorus	arundinace	us		Y	FACU	4	Total 100 Prevalence Hydrophytic Vegetation Rapid Test for Hyd Dominance Test is	e Index: 4.00 Indicators: rophytic Veg. >50%
6. 7.								Prevalence Index is Morphological Ada	ptations*
8.		DI		100	Total Cover			Problematic Hydrophy *Indicators of hydric se	•
1. 2.	y Vine Stratum	_ Plot size:	30					hydrology must be pr disturbed or pro	·
				0	Total Cover			Hydrophytic Vegeta	
SOIL	Remarks:							Yes No	Х
OOIL				be to depth ne	eded to do	cument the indicator or		absence of indicators.)
	Depth (inches)	Color	Matrix %	Color	% Tv	Redox Featu De* Loc**	ures Textu	ire Remarks	
	0-18	10YR 4/4			,		Si L		
	*Type: C	C=Concentra	ation, D=Deple	tion, RM=Redu		CS=Coated Sand grains	**Location	on: PL=Pore Lining, M=N	1atrix
	Histosol (A1) Histic Epipedo					I Indicators: cy Mineral (S1)		Redox Dark Surfac	e (F6)
					5cm Mucky	Peat or Peat	_	Depleted Dark Sur	
	Black Histic (A Hydrogen Sulf	A3) fide (A4)			5cm Mucky Sandy Gley Sandy Red	Peat or Peat of Peat of Peat or Peat of Peat or Peat of Peat o	- - -	Depleted Dark Sur Redox Depressions Indicators for Problema	s (F8) itic Hydric Soils
	_ Black Histic (<i>F</i> _ Hydrogen Sull _ Stratified Laye _ 2 cm Muck (A	A3)` fide (A4) ers (A5) .10)	face (A11)		5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc	Peat or Peat ed Matrix (S4) ox (S5) atrix (S6) ky Mineral (F1)	- - -	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M	s (F8) htic Hydric Soils ox (A16) asses (F12)
Destri	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3)` fide (A4) ers (A5) 10) ow Dark Sur urface (A12)	, ,		5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc	Peat or Peat of Peat of Matrix (S4) ox (S5) atrix (S6) ky Mineral (F1) red Matrix (F2)	- - - -	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo	s (F8) htic Hydric Soils ox (A16) asses (F12)
	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3)` fide (A4) ers (A5) 10) ow Dark Sur urface (A12)	, ,		5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Peat or Peat of Peat of Matrix (S4) ox (S5) atrix (S6) ky Mineral (F1) red Matrix (F2)	esent?	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark	s (F8) htic Hydric Soils ox (A16) asses (F12)
	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks:	A3)` fide (A4) ers (A5) 10) ow Dark Sur urface (A12)	: Type:	:):	5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Peat or Peat of Peat o	esent?	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other	s (F8) htic Hydric Soils ox (A16) asses (F12) Surface (F12)
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) 10) by Dark Sur urface (A12) observed):	:Type: Depth (Inches		5cm Mucky Sandy Gley Sandy Red Sandy Muc Loamy Muc Loamy Gley Depleted M	Peat or Peat of Peat o	esent?	Depleted Dark Sur Redox Depression: Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No	s (F8) htic Hydric Soils ix (A16) asses (F12) Surface (F12)
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye Stratified Belo Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY	A3) fide (A4) ers (A5) 10) ww Dark Sur urface (A12) observed)	:Type: Depth (Inches	s (check all th	5cm Mucky Sandy Gley Sandy Red Stripped Muc Loamy Muc Loamy Gley Depleted M	Peat or Peat ed Matrix (S4) ox (S5) otrix (S6) ky Mineral (F1) red Matrix (F2) atrix (F3) Hydric Soil Pr		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica	s (F8) htic Hydric Soils ix (A16) asses (F12) Surface (F12)
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks)	A3) fide (A4) ers (A5) 10) ow Dark Sur urface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1)	:Type: Depth (Inches	s (check all the Water Aquat True / Hydro	5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted M at apply) Stained Lea ic Fauna (Ba Aquatic Plan gen Sulfide	Peat or Peat ed Matrix (S4) ox (S5) ttrix (S6) ky Mineral (F1) red Matrix (F2) atrix (F3) Hydric Soil Pr aves (B9) 3) s (B14) Odor (C1)		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8)	x tic Hydric Soils (A16) asses (F12) Surface (F12) x tors
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) 3) (B1) obsits (B2) (B3) Crust (B4) sible on Aeri	: Type: Depth (Inches	S (check all the Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage	Scm Mucky Sandy Gley Sandy Redd Stripped Muc Loamy Muc Loamy Gley Depleted M at apply) Stained Lea ic Fauna (B1 Aquatic Plan gen Sulfide ed Rhizosph nce of Redu	Peat or Peat ed Matrix (S4) ox (S5) attrix (S6) kty Mineral (F1) red Matrix (F2) attrix (F3) Hydric Soil Pr aves (B9) 3) ss (B14) Odor (C1) rederes on Living Roots red Iron (C4) attrix (F3)		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table	x tors (C2) ital Imagery (C9) ital ital ital ital ital ital ital ital
HYDR Wetla	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) 3) (B1) obsits (B2) (B3) Crust (B4) (B5) sible on Aerietated Concest Surface W	Type: Depth (Inches	s (check all the Water Aquat True A Hydro Oxidiz Prese Recer Thin M	Scm Mucky Sandy Gley Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M at apply) Stained Lea ic Fauna (B1 Aquatic Plan gen Sulfide ed Rhizosph nce of Redu t Iron Redu Muck Surface	Peat or Peat ed Matrix (S4) ox (S5) ktrix (S6) ky Mineral (F1) red Matrix (F2) atrix (F3) Hydric Soil Pr Aves (B9) 3) as (B14) Odor (C1) heres on Living Roots ced Iron (C4) cition in Tilled Soil (C6) a (C7) ha (D9) Depth (inches)		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Stunted or Stressed Plan Geomorphic Position (D2	x tors (C2) ital Imagery (C9) ital Imagery (C9) ttic Hydric Soils x (A16) asses (F12) x

Client: Invest Slope Soil M	igator(s):	AEP N. Houk, N 1-3 Aetna silt I gic condition N	I. Barnett Lat. coam, occasionals typical for time, Soil	State: 39.7019	OH 56 ded ar? or Hy	Section Sectio	on, Tov	irifield County vnship, Range: Landforn -82.638831 significantly disturbed naturally problematic	Datum		n 2024 _ Data S10, T 14N, I Local Relie NWI Class	R 19W ef C	1A Convex NA
	ormal Circumst	ances Prese		'es	X			-					
	Hydro W	phytic Vege Hydri	tation Present? c Soil Present? rology Present?	Yes		No No No	X х	_	Is the Yes	DP within a	a Wetland? x		
Rema VEGE	rks: TATION												
Tree S	Stratum	Plot size:	30'		ute % ver		inant cies	Indicator State	us				
1.	Juglans nigra			2	.0		Y	FACU	4		ninance Tes		heet
2. 3. 4. 5.	Robinia pseud	doacacia		1	0		Y	FACU	4	that are Of Total numb	dominant sp BL, FACW, oper of domina	or FAC: ant	1
				3	0	Total C	over	-, -		Percent of	ross all strat dominant sp	ecies	20.00
Shrub 1.	Stratum Robinia pseud	Plot size: doacacia	15'	3	0	,	Y	FACU	4		BL, FACW, o e Index Wo i	_	
2. 3. 4.	Juglans nigra				20		Υ	FACU	4	Total 9 OBL speci FACW spe	% cover <u>of:</u> es ecies 7	0 x 1	0 140
5.				5	0	Total C	over			FAC speci FACU spe	cies 10	0 x 3	400
Herb S	Stratum Conium macu	Plot size: <i>latum</i>	5'	7	0	,	Y	FACW	2	UPL specie Tota		10 x 5 30	50 590
2. 3.	Allium vineale				0		N N	FACU UPL	4 5	Hydronby	Prevaler tic Vegetation	nce Index	
4.	Symphyotrich		S		0		N	FACU	4	Rapi	d Test for Hy	ydrophyti	c Veg.
5. 6.						-		_			inance Test alence Index		
7. 8.											ohological Ac ematic Hydrop		
		Dist since	001	10	00	Total C	over				ors of hydric		
1.	y Vine Stratum	_ Plot size:	30					_,			ogy must be isturbed or p		
2.)	Total C	over	-, -			ohytic Veget		
SOIL	Remarks:									Yes	No	X	
JOIL				e to de	pth ne	eded to	o docu	ment the indicator or		n absence	of indicators	s.)	
	Depth (inches)	Color	Matrix %	Co	olor	%	Туре	Redox Feat	ures Text	ture	Remark	S	
	0-18	10YR 3/3	100						Si	L			
	*Type: C	C=Concentra	tion, D=Deplet	ion, RM	=Redu			S=Coated Sand grains ndicators:	**Locat	tion: PL=Po	re Lining, M=	-Matrix	
	Histosol (A1) Histic Epipedo	on (A2)						Mineral (S1) eat or Peat			ox Dark Surfa leted Dark Si		7)
	Black Histic (A	43)				Sandy	Gleyed	d Matrix (S4)		Red	ox Depressio	ns (F8)	,
	Hydrogen Sulf Stratified Laye	ers (À5)				Sandy Strippe	Redox d Matr	: (S5) ix (S6)			ors for Probler st Prairie Rec		
	2 cm Muck (A Depleted Belo	.10)	iaco (A11)			Loamy	Mucky	/ Mineral (F1) d Matrix (F2)			Manganese Shallow Da		
	Thick Dark Su	ırface (A12)				Deplete	ed Mat	rix (F3)		Othe		K Sullac	e (1°12)
Restri	ictive Layer (if	observed):	Type: Depth (Inches)):				Hydric Soil Pr	esent?	Yes	No	x	
	Remarks:												
	nd Hydrology												
	Surface Wate		nary Indicators	(cneci		Staine		es (B9)			ondary Indic oil Cracks (Bo		
	High Water Ta					ic Fauna Aquatic					Patterns (BÌ10 n Water Tab		
	Water Marks ((B1)			Hydro	gen Sul	fide Od	dor (C1)		Crayfish B	urrows (C8)	` ,	(0.0)
	Sediment Dep Drift Deposits				Prese	nce of F	Reduce	res on Living Roots ed Iron (C4)		Saturation Stunted or	Visible on A Stressed Pla	erial Imag ants (D1)	gery (C9)
	Algal Mat or C	rust (B4)			Recer	nt Iron R Muck Su	leducti	on in Tilled Soil (C6)		Geomorph	ic Position (Dalament) al Test (D5)		
	Inundation Vis	sìble on Aeri	al Imagery (B7))	Guage	e or We				- 1 70-Neuli	ai 1031 (DJ)		
Field	Sparsely Vege Observations:			Yes	Other	No	Х	Depth (inches)					
			le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hydro	loy Indicate Yes	ors Present' No	? x	
Descr	ibe Recorded D				II, aeria			ious inspections), if av	ailable:	162	INO	^	

Client: Invest Slope Soil M C	: igator(s): (%): lap Unit Name	AEP N. Houk, N 1-3 Thackery sogic condition N N tances Prese	Lat. silt loam, 0 to 2 ns typical for tin , Soil , Soil	_State 39.701 perce	e: OH 1956 nt slopes rear? or Hy	Long S Y/N rdrology	ion, Tov	airfield County vnship, Range: Landform -82.638831 significantly disturbed naturally problematic	Te		2024 Data P 10, T 14N, R 1 Local Relief NWI Class:	
	-	Hydri	etation Present' ic Soil Present' rology Present'	? Yes	X	No No No		-	Is the I	DP within a	Wetland?	
Rema	rks:			. 100		110			1.00	110		
VEGE	TATION			Ahs	olute %	Dor	ninant		1			
1. 2. 3. 4. 5.		Plot size:			Cover		ecies	Indicator Status	S	Number of that are OB Total numb	inance Test W dominant spec L, FACW, or F er of dominant	ies 3 AC:5
J .					0	Total (Cover			Percent of	oss all strata: dominant speci	es 60.00
Shrub 1. 2. 3. 4. 5.	Stratum Robinia pseu Rubus allegh		15'		80 5		Y N	FACU FACU	4	that are OB Prevalence	L, FACW, or F lindex Works cover of: es 0 doi: 10 40	AC: 60.00
	Stratum	Plot size:			85	Total (Cover	_		FACU specie UPL specie	ies 105	
1.	Conium mac		<u> </u>		20		Υ	FACW	2	Tota		590
2. 3.	Phalaris arur Poa pratensi				20	-	Y	FACW FAC	3	Lludranhuti	Prevalence ic Vegetation	
3. 4.	Solidago can				20		Y	FACU	4		d Test for Hydro	
5. 6.	Alliaria petiol	ata			10		N	FAC	3		nance Test is a alence Index is	
7. 8.								-		Morp	hological Adap matic Hydrophyti	tations*
					90	Total (Cover				ors of hydric so	•
1.	y Vine Stratun	n_Plot size:	30'					<u></u>		•	gy must be pre sturbed or prob	
2.					0	Total (Cover				hytic Vegetati	
	Remarks:									Yes	x No	
SOIL	Pro	ofile Descrip	tion: (Descril	oe to d	lepth ne	eded t	to docu	ment the indicator or	confirm	absence c	of indicators.)	
	Depth (inches)	Color	Matrix %	-	Color	%	Type	Redox Featu	res Text	uro	Remarks	
	0-18	10YR 3/2	100	Ì	JOIO1	70	1,750	200	Si		rtomanto	
	*Type:	C=Concentra	 ation, D=Deplet	ion, R	M=Redu	ced Ma	atrix, CS	S=Coated Sand grains	**Locat	ion: PL=Por	e Lining, M=Ma	atrix
			•			Hydri	c Soil	ndicators:		Dada	v Dawle Courtain	(FC)
	_Histosol (A1) Histic Epiped							Mineral (S1) Peat or Peat	-		x Dark Surface eted Dark Surfa	
	Black Histic (Hydrogen Su						Gleye	d Matrix (S4)			x Depressions s for Problemat	
	Stratified Lay					Stripp	ed Mati	rix (S6)		Coas	t Prairie Redox	(A16)
	2 cm Muck (A Depleted Bel		face (A11)					/ Mineral (F1) d Matrix (F2)			Manganese Ma Shallow Dark S	
	Thick Dark S	urface (A12)	. ,					rix (F3)		Other		ranace (i 12)
Restri	ictive Layer (i	f observed):	: Type: Depth (Inches	·				Hydric Soil Pre	sent?	Yes	No	x
	Remarks:		Deptil (mories	,.				i iyana dan i ia	,001111	103	110	
	OLOGY nd Hydrology	Indicators:										
		Prin	nary Indicators	s (che				(DO)			ndary Indicate	ors
	Surface Wate High Water T						ed Leav na (B13	es (B9))			il Cracks (B6) atterns (B10)	
	Saturation (A						Plants				Water Table (C2)
	Water Marks Sediment De							dor (C1) res on Living Roots		Crayfish Bu Saturation \	√isible on Aeria	al Imagery (C9)
	Drift Deposits	(B3) ` ´			Prese	nce of	Reduce	ed Iron (C4)		Stunted or	Stressed Plants	s (D1)
	Algal Mat or (Iron Deposits	s (B5) ` ´					Reducti urface	on in Tilled Soil (C6) (C7)	Х	FAC-Neutra	c Position (D2) al Test (D5)	
	Inundation Vi	sìble on Aeri	al Imagery (B7)	Guage	e or We	ell Data				. ,	
Field	Sparsely Veg Observations			Yes	Other	No	Х	Depth (inches)	-			
			le Present?	Yes Yes		No No	X	Depth (inches) Depth (inches)	Hydrol	oy Indicato Yes	rs Present?	v
Descr	ibe Recorded				ell, aeria		s, prev	ious inspections), if avai	ilable:	162	<u>No</u>	X

Appendix D

ORAM Forms



ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES ⊠ NO	If yes, Category 3.
	Question 7: Fens	☐ YES ⊠ NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Quest 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	17	
	Metric 4: Habitat	15.5	
	Metric 5: Special Wetland Communities	0	
	Metric 6: Plant communities, interspersion, microtopography	5	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	43.5	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation				
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	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding 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				
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e,	YES Wetland should be evaluated for possible	⊠ NO	by the ORAM 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				
Did you answer "Yes" to Narrative Rating No. 5	Category 3 status YES Wetland is categorized as a Category 1 wetland	⊠ NO	also be used to determine the wetland's category. Is quantitative rating score greater than the Category 2 scoring threshold (including 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 undercategorized by the ORAM				
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	☐ 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. 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 an quantitative score.				
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.				
Final Category							

Final Category								
Choose One	☐ Category 1		☐ Category 3					

End of Ohio Rapid Assessment Method for Wetlands

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		r (WL-12N-PEM) Rater(s): NSB	Data: 2/27/2024
Site. I	_ancaster	(WL-12N-PEM) Rater(s): NSB	Date: 3/27/2024
2	2	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
4	6	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 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pt NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fall HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	s) [*]
17	23	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	ain (1pts) //lake and other human use (1pts) upland (e.g. forest), complex (1pts) upland corridor (1pts) atturation. Score one or dbl check. nently inundated/saturated (4pts) ate/saturated (3pts) dated (2pts) rated in upper 30cm (12in) (1pts) Point source (non-storm water) Filing/grading
		Recent or no recovery (1pts) Dike Weir Storm water input	Road bed/RR track Dredging Other
15.5	38.5	Metric 4. Habitat Alteration and Development.	
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts)	
		4c. Habitat alteration. Score one or double-check and average.	
	38.5	☑ None or none apparent (9pts) Check all disturbances observed ☑ Recovered (6pts) ☐ Mowing ☐ ☐ Recovering (3pts) ☐ Grazing ☐ ☐ Recent or no recovery (1pts) ☐ Clear-cutting ☐ ☐ Selective cutting ☐ ☐ Woody debris removal ☑	Herbaceous/aquatic bed removal Sedimentation Dredging
	Subtotal th	Toxic pollutants	Nutrient enrichment

Site: I	Lancaster	(WL-12N-PEM) Rater(s): NSB	Date: 3/27/2024
		, , ,	,	<u>.</u>
	38.5			
;	Subtotal first pa	nge I		
0	38.5	Metric 5. Special wetla	ands.	
Max 10pts	Subtotal	Check all that apply and score as indicated Bog (10pts) Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 pts Lake Erie coastal/tributary wet Lake Flain Sand Prairies (0ak Relict Wet Prairies (10pts) Known occurrence state/feder Significant migratory songbird, Category 1 Wetland. See Que	land-unrestricted hy land-restricted hydro Openings) (10pts) al threatened or end water fowl habitat o	ology (5pts) langered species (10pts) r usage (10pts)
5	43.5			erspersion, micro topography
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities		on Community Cover Scale
		Score all present using 0 to 3 scale. O Aquatic Bed	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area Present and either comprises small part of wetland's vegetation and is
		2 Emergent		of moderate quality, or comprises a significant part put is of low quality
		0 Shrub 0 Forest	2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
		0 Mudflats	3	Present and comprises significant part, or more of wetland's vegetation
		0 Open Water		and is of high quality
		Other		
		6b. Horizontal (plan view) Interspersion	Narrative	Description of Vegetation Quality
		Select only one.	low	Low spp diversity and/or predominance of nonnative or disturbance
		☐ High (5pts) ☐ Moderately high (4pts)	mod	Tolerant native species Native spp are dominant component of the vegetation, although nonnative
		☐ Moderate (3pts) ☐ Moderately low (2pts) ☐ Low (1pts)	mod	and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
		☐ None (0pts)	high	A predominance of native species, with nonnative spp and/or disturbance
		6c. Coverage of invasive plants. Refer t	0	tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Table 1 ORAM long form for list.		· · · · · · · · · · · · · · · · · · ·
		Add or deduct points for coverage		nd Open Water Class Quality
		Extensive >75% cover (-5pts)Moderate 25-75% cover (-3pts)	<u>0</u>	Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47)
		☐ Moderate 25-75% cover (-3pts)☐ Sparse 5-25% cover (-1)	2	Low 0.1 to < 111a (0.247 to 2.47)
		✓ Nearly absent >5% cover (0pts)	3	High 4ha (9.88 acres) or more
		Absent (1pts)		,
				ography Cover Scale
		6d. Micro topography	0	Absent
		Score all present using 0 to 3 scale. 2 Vegetated hummocks/tussocks	1	Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or
		0 Coarse woody debris >15cn (6in)		In small amounts of highest quality
		0 Standing dead >25cm (10in) dbh		Present in moderate or greater amounts and of highest quality
		Amphibian breeding pools		

GRAND TOTAL (max 100 pts)

43.5

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.								
7pts	WIDE. >50m (164ft) or more around perimeter							
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter							
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter	\boxtimes						
0pts	VERY NARROW. <10m (<32ft) around perimeter.							
	ntensity of predominant surround land use(s). Select one, or double check up to two and average score, for the tensity of the predominant land use(s) outside the wetland's buffer zone (if any).		3					
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.							
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.	\boxtimes						
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.							
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.							

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Subtotal from previous page

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is \boxtimes in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 2 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. \boxtimes 2pts Seasonally inundated. П Seasonally saturated in the upper 30cm (12in) of soil.

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3e.	Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.
	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (<i>Chamaedaphne calyculata</i>) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to <i>that type of wetland</i> . In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

_	Check all that are observed present in or near the wetland						
		ditch(es), in or near the we	etland		point source discharges to	the (non-storm	water)
		tile(s), in or near the wetla	nd		filing/grading activities in o	r near the wetla	ınd
		dike(s), in or near the wetle	and		road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetle	and		dredging activities in or ne	ar the wetland	
		storm water inputs (addition	n of water)		other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the	there	gn a score of 12 since e are no or no apparent ifications.	NOT SURE Double check none apparen "recovered" at score of 9.5	it" and	
Select one or double check adjoining number and average the score.						score	
	12pts	NONE OR NONE APPARENT	There are no modifications or no	o modit	fications that are apparent to the	Rater.	×
	7pts	RECOVERED. The wetland a	appears to have recovered from pa	st mod	lifications.		
	3pts	RECOVERING. The wetland	appears to be in the process of re	coverin	g from past modifications		
	1pt		 The modifications have occurre ions, and/or the modifications are 			d has not	

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Metric	Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.				
4a.					
of ca ca alt na ha pa sh	rcle one answer. Have any soil or substrate disturbances used or appear to have used more than trivial erations to the wetland's tural soils or substrates, or we they occurred so far in the st that current conditions ould be considered to be atural"?	YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" a "recovered" and score of 3.5	and
Soloc	Select one or double check adjoining number and average the score. score 3				
Selec	t one or double check adjoining r	number and average the score.			
	ots NONE OR NONE APPARENT	Γ. There are no modifications or n	o modifications that are apparent to	the Rater.	3
4r 3r	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a	Γ. There are no modifications or no appears to have recovered from pa	ast modifications.	the Rater.	3 □
4r 3r 2r	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland	Γ. There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be	ast modifications.		3 \[\times \]
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4 p 3 p 2 p 1 1 4 b .	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland of RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w This question presumes a good selectate. ots EXCELLENT. Wetland appear would make it excellent. ots GOOD. Wetland appears to be successional state, or other re-	T. There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurre ions, and/or the modifications are of the types of wetlands and the ars to represent the best of its type ars to be a very good example of its type or classes.	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	3
4p. 3p 2p 1 1 4b. 7p 6p 5p 4p	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a pt RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w This question presumes a good se state. ots EXCELLENT. Wetland appear to the company of the comp	T. There are no modifications or no appears to have recovered from parappears to be in the process of real papears to be and assign score. This quested and is in comparison to other econse of the types of wetlands and the part to represent the best of its type are to be a very good example of its assons, is not excellent. and appears to be a fair to good example of its a moderately good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	3
4p. 3p 2p 1 1 4b. 7p 6p 5p 4p 3p	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a pt RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w This question presumes a good se state. ots EXCELLENT. Wetland appear tots VERY GOOD. Wetland appear would make it excellent. ots GOOD. Wetland appears to be successional state, or other re ots MODERATELY GOOD. Wetland ots FAIR. Wetland appears to be disturbances, successional state.	T. There are no modifications or no appears to have recovered from parappears to be in the process of real papears to be and assign score. This quested and is in comparison to other econse of the types of wetlands and the part to represent the best of its type are to be a very good example of its assons, is not excellent. and appears to be a fair to good example of its a moderately good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sin he range in quality typical of the region or class. ts type or class but is lacking in characters but because of past or present december of its type or class. type or class but because of past or past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	3

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4c.	evalua alterat possib approp scores disturb	ated. The state of the state of	his question does not at are observed. All a ation. Evaluate wheth core that best describ me instances, the sco The Rater may chec	discriminate between wetla vailable information, field viner the alteration is trivial in es the present state of the pres can be viewed as a hal	ands wit isits, ae relation wetland bitat alt	th different rial photos n to the we l. It is appi eration cor	of the type of wetland that is types of habitat. Check all IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	possible identify a ot the most and average ery low or no	
C	heck a	all that	are observed pres	ent in or near the wetlar	nd				
·			Mowing		ĪΠ	Herb	aceous layer/aquatic bed	l removal	
		$\overline{}$	Grazing (cattle, s	heep pigs etc.)	╁╫		mentation	- Tomovai	
		$\overline{\Box}$	Clear cutting			Dred			_
		$\overline{}$	Selective cutting			Farm	-		
		$\overline{}$	Woody debris rer	moval			ent enrichment, e.g. nuis	ance algae	
		$\overline{}$	Toxic pollutants		$+$ $\overline{-}$	- 	r (specify)	a	
		$\overline{}$	Shrub/sapling rer	moval	〒		r (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance. NO Assign a score of 9 since there are no or no apparent modifications.		NOT SURE Double check "none or none apparent" and "recovered" and assign a score of 7.5					
Selec	Select one or double check adjoining number and average the score. score 7.5								
9p	ts N	IONE C	R NONE APPARENT	T. There are no alterations	or no a	Iterations t	hat are apparent to the Rate	er.	
6p	ts F	RECOVI	ERED. The wetland a	appears to have recovered	from pa	st alteratio	ns.		
3p				appears to be in the proces			· ·		
1				 The alterations/ have oc s/, and/or the alterations/ a 			ccurred, and/or the wetland l	has not	
Metric	Metric 5. Special wetland communities. Maximum 10 points. Assign or deduct points if wetland has the feature described. Refer to Narrative Rating for guidance. No wetland can receive more than 10 points even if multiple categories are applicable.								
	Bog	(10pts)			Lake p	lains sand prairies (Oak	Openings) (10 p	ots)
	Fen	(10 pts	s)			Relict v	wet prairies (10 pts)		
	Old	Growth	n Forest (10 pts)			Known	occurrence of threatene	d/endangered s	species (10pts)
	Matu	ıre For	ested Wetland (5 p	ots)		Signific	cant migratory songbird/v	vaterfowl habita	t (10 pts)
	Coas	stal we	tlands, unrestricted	d hydrology (10 pts)		Catego	ory 1 wetlands (See Narr	ative Rating #5)	(-10 pts)
	Coastal wetlands, restricted hydrology (5 pts)								

38.5

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	2
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

40.5

Subtotal from previous page

	6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.			
5pts	5pts HIGH. Wetland has a high degree of interspersion			
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion			
3pts	MODERATE. Wetland has a moderate degree of interspersion			
2pts MODERATELY LOW. Wetland has a moderately low degree of interspersion				
1pt	LOW. Wetland has a low degree of interspersion	⊠		
0pts	NONE. Wetland has no plan view interspersion			

6c. Co	6c. Coverage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.				
-5pts	Extensive. >75% areal cover of invasive species				
-3pts	Moderate 25-75% areal cover of invasive species				
-1pt	Sparse. 5-25% areal cover of invasive species				
0pts	Nearly absent. <5% areal cover of invasive species	⊠			
1pt	Absent				

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	2
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

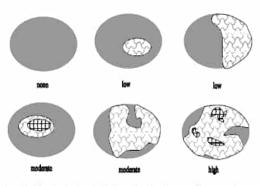


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

43.5 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES 🗵 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🗵 NO	If yes, Category 3.
	Questions 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.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	1	
	Metric 3: Hydrology	4	
	Metric 4: Habitat	3	
	Metric 5: Special Wetland Communities	-10	
	Metric 6: Plant communities, interspersion, microtopography	3	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	2	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation			
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	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding 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	☑ YESWetland is categorized as a Category 1 wetland	□ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including 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 undercategorized by the ORAM			
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	 ✓ 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. 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 an quantitative score.			
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.			
Final Category						

Final Category					
Choose One	⊠ Category 1	☐ Category 2	☐ Category 3		

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating	Doto: 2/27/2024
Site. L	_ancaster	r (WL-10N-PEM) Rater(s): NSB	Date: 3/27/2024
1	1	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score.	
1	2	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 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) □ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) □ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallo □ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
4	6	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	n (1pts) ake and other human use (1pts) aland (e.g. forest), complex (1pts) upland corridor (1pts) uration. Score one or dbl check. ntly inundated/saturated (4pts) e/saturated (3pts)
3	9	Metric 4. Habitat Alteration and Development.	Office:
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts) 4c. Habitat alteration. Score one or double-check and average. Check all disturbances observed	
	9 Subtotal th	Recovered (6pts) Recovering (3pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recovered (6pts) Recovering (3pts) Recove	Shrub/sapling removal Herbaceous/aquatic bed removal Sedimentation Dredging Farming Nutrient enrichment

Site:	Lancaster	(WL-10N-PEM)	Rater(s): NSB	3		Date:	3/27/2024
	9 Subtotal first pa	ge	·				
-10	-1	Metric 5. Specia	l wetlands.				
Max 10pts	Subtotal	☐ Lake Erie coastal ti ☐ Lake Plain Sand Pi ☐ Relict Wet Prairies ☐ Known occurrence ☐ Significant migrator	10pts) stland (5 pts) ributary wetland-unrestrict ributary wetland-restricted rairies (Oak Openings) (10	d hydrolo 0pts) or enda bitat or u	ogy (5pts) ngered species (10pts) usage (10pts)		
3	2				rspersion, micro top	ograph	y
Max 20 pts.	Subtotal	6a. Wetland Vegetation Com			Community Cover Scale		
		Score all present using 0 O Aquatic Bed		0	Absent or comprises <0.1ha (0.2471 ac Present and either comprises small par		
		0 Aquatic Bed 1 Emergent		'	of moderate quality, or comprises a si		•
		0 Shrub		2	Present and either comprises significan		
		0 Forest	•	-	of moderate quality or comprises a sn		
		0 Mudflats		3	Present and comprises significant part,		
		0 Open Water			and is of high quality		
		Other	<u></u>				
				5			
		6b. Horizontal (plan view) Int	· ·		Description of Vegetation Quality		
		Select only one. High (5pts)		ow	Low spp diversity and/or predominance Tolerant native species		
) m	nod	Native spp are dominant component of and/or disturbance tolerant native spp diversity moderate to moderately high rare threatened or endangered spp	can also be p	present, and species
		☐ None (0pts)	hi	igh	A predominance of native species, with		
		Go Coverage of investive pla	nto Deferte		tolerant native spp absent or virtually		
		6c. Coverage of invasive pla			often, but not always, the presence of	rare, irreater	led, or endangered spp
		Table 1 ORAM long form Add or deduct points for		dflat and	d Open Water Class Quality		
		Extensive >75% cove			Absent <0.1ha (0.247 acres)		
		☐ Moderate 25-75% cov	· · · ·		Low 0.1 to <1ha (0.247 acres)		
		Sparse 5-25% cover (· · · · · —	2	Moderate 1 to <4ha (2.47 to 9.88 acres	1	
		☐ Nearly absent >5% co	· /	_	High 4ha (9.88 acres) or more)	
		☐ Nearly absent >3 % cc		<u>~ 1</u>	The first (0.00 doles) of more		
		· · · /	Mici	ro topog	graphy Cover Scale		
		6d. Micro topography	(0	Absent		
		Score all present using 0	to 3 scale.	1	Present very small amounts or if more of	common of ma	rginal quality
		0 Vegetated hummocks		2	Present in moderate amounts, but not o		
		0 Coarse woody debris			In small amounts of highest quality		
		0 Standing dead >25cm	(10in) dbh	3	Present in moderate or greater amounts	s and of highe	st quality
		0 Amphibian breeding p	ools				

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	1
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20
0.1	4,356	484	66	22	0.04	400	

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.						
	7pts	WIDE. >50m (164ft) or more around perimeter				
	4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter				
	1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter				
	0pts	VERY NARROW. <10m (<32ft) around perimeter.	\boxtimes			
2b		ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).		1		
	7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.				
	5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.				
	3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.				
	1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.	\boxtimes			

2

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 0 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

5

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e.	Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.						
	regi (Ch ask abo	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.					
	cate two	egory to describe the present sta	ole past and ongoing disturbances, ate of the wetland. In instances wh is uncertain as to which category i	here th	e Rater believes that a wetland t	falls between	
	app ver	propriate to consider the scoring y low or no disturbance.	s are intended to be descriptive bu categories as fixed locations on a	hydrol	ogic disturbance continuum, fror	n very high to	
			eral of these possible disturband letric 4 where these same distur			l hydrologic	
	Chec	k all that are observed prese	ent in or near the wetland				
		ditch(es), in or near the we	etland		point source discharges to	the (non-storm	water)
		tile(s), in or near the wetlar	nd		filing/grading activities in or near the wetland		ınd
		dike(s), in or near the wetla	and	\boxtimes	road beds/RR beds in or near the wetland		
		weir(s), in or near the wetla	and		dredging activities in or ne	ar the wetland	
		storm water inputs (additio	n of water)		other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		rbances identified above or appear to have caused in trivial alterations to the sinatural hydrologic or have they occurred so past that current y should be considered to	YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.	NO Assign a score of 12 since there are no or no apparent modifications.		NOT SURE Double check "none or none apparent" and "recovered" and assign a score of 9.5	
			X				
Select one or double check adjoining number and average the score.					score 1		
1	2pts	NONE OR NONE APPARENT	. There are no modifications or no	o modi	fications that are apparent to the	Rater.	
	7pts RECOVERED. The wetland appears to have recovered from past modifications.						
	3pts	RECOVERING. The wetland a	appears to be in the process of red	coverin	g from past modifications		

RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.

6

 \boxtimes

N	Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.						
4	 4a. Substrate/Soil Disturbance. Select one or double check and average. This question evaluates physical disturbances to the soil and surface substrates of the wetland. Note also that the labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a disturbance continuum, from very high to very low or no disturbance. Examples of substrate/soil disturbance include filling and grading, plowing, grazing (hooves), vehicle use (motorbikes, off-road vehicles, construction vehicles), sedimentation, dredging, and other mechanical disturbances to the surface substrates or soils. 						
	Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"? YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance. NO Assign a score of 4 since there are no or no apparent modifications. Pouble check "none or none apparent" and "recovered" and assign a score of 3.5						
Select one or double check adjoining number and average the score.					score		
5	select on	e or double check adjoining n	umber and average the score.			1	
5	4pts	NONE OR NONE APPARENT	. There are no modifications or no	o modifications that are apparent to	the Rater.	1	
5		NONE OR NONE APPARENT RECOVERED. The wetland a	There are no modifications or no page 2 peeps to have recovered from page 2	est modifications.	the Rater.	1	
5	4pts 3pts 2pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland	There are no modifications or no ppears to have recovered from parappears to be in the process of recovered.	nst modifications.		1	
	4pts 3pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no ppears to have recovered from parappears to be in the process of recovered.	est modifications. covering from past modifications d, recently occurred, and/or the wetl		1	
	4pts 3pts 2pts 1pt	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati citat development. Select only ng of how well developed the we s question presumes a good ser	There are no modifications or not ppears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications have occurred ons, and/or the modifications are covered from a satisfactory. This quest that is in comparison to other ecovered from the process of the following from the process of th	est modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	1	
	4pts 3pts 2pts 1pt	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati coitat development. Select only ng of how well developed the we se question presumes a good serve.	There are no modifications or not ppears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications have occurred ons, and/or the modifications are covered from a satisfactory. This quest that is in comparison to other ecovered from the process of the following from the process of th	ust modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands.	1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
	4pts 3pts 2pts 1pt b. Hat ratii This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ie. EXCELLENT. Wetland appear	There are no modifications or no ppears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications have occurred ones, and/or the modifications are covered one and assign score. This question is in comparison to other expressed in the types of wetlands and the processed of the types of wetlands and the processed from the process	ust modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
	4pts 3pts 2pts 1pt b. Hatratir This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ie. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent.	There are no modifications or no ppears to have recovered from parappears to be in the process of reconstance. The modifications have occurrence one, and/or the modifications are consequently one and assign score. This questetland is in comparison to other expressed the types of wetlands and the rest to represent the best of its type are to be a very good example of its type or classes.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
	4pts 3pts 2pts 1pt 4b. Hat ratin This stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no ppears to have recovered from parappears to be in the process of reconstance. The modifications have occurrence one, and/or the modifications are consequently one and assign score. This questetland is in comparison to other expressed the types of wetlands and the rest to represent the best of its type are to be a very good example of its type or classes.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. Is type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	1	
	4pts 3pts 2pts 1pt 4b. Haterating This stat 7pts 6pts 5pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification of the development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no ppears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be a cocurrect one, and/or the modifications are covered from parappears to the modifications are covered from parappears to the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the process of the types of the process of the pr	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. Is type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	1	
	4pts 3pts 2pts 1pt 4b. Hat ratin This stat 7pts 6pts 5pts 4pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification outst development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re MODERATELY GOOD. Wetland FAIR. Wetland appears to be disturbances, successional state.	There are no modifications or no ppears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be a cocurrect one, and/or the modifications are covered from parappears to the modifications are covered from parappears to the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the process of the types of the process of the pr	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. Is type or class but is lacking in characteristics but because of past or present desample of its type or class. type or class but because of past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	1	

8

4c. Habitat alteration. This question evaluates the "intactness" the natural habitat of the type of wetland that is being evaluated. This question does not discriminate between wetlands with different types of habitat. Check all possible alterations that are observed. All available information, field visits, aerial photos, maps, etc. can be used to identify a possible alteration. Evaluate whether the alteration is trivial in relation to the wetlands overall habitat. Select the most appropriate score that best describes the present state of the wetland. It is appropriate to "double check" and average scores. In some instances, the scores can be viewed as a habitat alteration continuum, from very high to very low or no disturbance. The Rater may check one or several of these possible disturbances, yet still determine that the natural habitat is intact.									
С	heck a	all that	are observed prese	ent in or near the wetlan	ıd				
		\boxtimes	Mowing			Н	erbaceous layer/aquatic bed	removal	
			Grazing (cattle, s	heep, pigs, etc.)		S	edimentation		
			Clear cutting			D	redging		
			Selective cutting			F	arming		
			Woody debris rer	noval		N	utrient enrichment, e.g. nuisa	ance algae	
			Toxic pollutants			0	ther (specify)		
			Shrub/sapling rer	noval		0	ther (specify)		
			ign a score of 9 since e are no or no apparent difications.	NOT SURE Double check none apparen "recovered" at score of 7.5	t" and				
Selec	t one c	or doub	le check adjoining n	number and average the s	core.				score 1
9p	ots N	IONE O	R NONE APPARENT	T. There are no alterations	or no a	lteratio	ons that are apparent to the Rate	r.	
6p	ts F	RECOVE	ERED. The wetland a	appears to have recovered f	from pa	st alte	rations.		
				appears to be in the proces			• •		
1				 The alterations/ have occ s/, and/or the alterations/ ar 			ily occurred, and/or the wetland h	nas not	
Metric	Re		Narrative Rating for gเ				ct points if wetland has the feature an 10 points even if multiple cate		
	Bog	(10pts)			Lał	ce plains sand prairies (Oak	Openings) (10 p	ots)
	Fen	(10 pts	· · · · · · · · · · · · · · · · · · ·			Re	lict wet prairies (10 pts)		
	Old	Growth	Forest (10 pts)			Kn	own occurrence of threatene	d/endangered s	pecies (10pts)
	Matu	re For	ested Wetland (5 p	ots)	П	Sig	nificant migratory songbird/w	vaterfowl habita	(10 pts)

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-1 Subtotal

Category 1 wetlands (See Narrative Rating #5) (-10 pts)

Coastal wetlands, unrestricted hydrology (10 pts)

Coastal wetlands, restricted hydrology (5 pts)

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	1
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	1
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

0

	6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.				
5pts	HIGH. Wetland has a high degree of interspersion				
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion				
3pts	MODERATE. Wetland has a moderate degree of interspersion				
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion				
1pt	LOW. Wetland has a low degree of interspersion	⊠			
0pts	NONE. Wetland has no plan view interspersion				

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate		
various microtopographic habitat features often present in wetlands.	0	
Vegetated hummocks and tussocks.		
Coarse woody debris >15cm (6in) diameter		
Standing dead trees >25cm (10in) diameter at breast height		
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction		

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

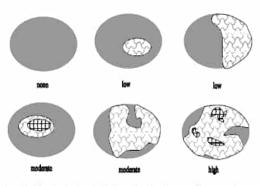


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

2 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	2	
	Metric 3: Hydrology	16	
	Metric 4: Habitat	7	
	Metric 5: Special Wetland Communities	-10	
	Metric 6: Plant communities, interspersion, microtopography	2	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	18	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation
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	□ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding 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	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 (including 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 undercategorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	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. 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 an quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.
Final Category Choose One			

End of Ohio Rapid Assessment Method for Wetlands

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		uantitative Rating
Site: \	West Lan	caster - WL-5-PEM Rater(s): E. Holt, L. Vine Date: 3/27/24
1	1	Metric 1. Wetland Area (size).
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)
1	2	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 50 m (164ft) or more around wetland perimeter (7pts) ☐ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) ☐ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) ☑ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. ☐ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) ☐ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) ☐ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3pts) ☐ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)
6	8	Metric 3. Hydrology.
Max 30 pts.	subtotal	3a. Sources of Water. Score all that apply High pH groundwater (5pts)
	_	Recovering (3pts) Recent or no recovery (1pts) Weir Storm water input Filing/grading Road bed/RR track Dredging Other
9	17	Metric 4. Habitat Alteration and Development.
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts) 4c. Habitat alteration. Score one or double-check and average.
	17	□ None or none apparent (9pts) □ Recovered (6pts) □ Recovering (3pts) □ Recent or no recovery (1pts) Check all disturbances observed □ Mowing □ □ Grazing □ □ Clear-cutting □ ○ Sedimentation □ Selective cutting □ Dredging
	Subtotal th	

	West Land	caster - WL-5-PEM Rater(s):	E. Holt,	L. Vine Date: 3/27/24
	17 Subtotal first pa	i ige		
10	7	Metric 5. Special wetland	ls.	
Max 10pts	Subtotal	Check all that apply and score as indicated Bog (10pts) Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 pts) Lake Erie coastal/tributary wetland-Lake Plain Sand Prairies (Oak Open Relict Wet Prairies (10pts) Known occurrence state/federal thre Significant migratory songbird/water Category 1 Wetland. See Question	estricted hydr nings) (10pts) eatened or end fowl habitat o	ology (5pts) dangered species (10pts) or usage (10pts)
14	21	Metric 6. Plant communit	ies, int	erspersion, micro topography
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities	Vegetati	on Community Cover Scale
		Score all present using 0 to 3 scale. O Aquatic Bed Emergent Shrub Forest O Mudflats O Open Water Other	0 1 2 3	Absent or comprises <0.1ha (0.2471 acres) contiguous area Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part put is of low quality Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality Present and comprises significant part, or more of wetland's vegetation and is of high quality
		6b. Horizontal (plan view) Interspersion	Narrative	Description of Vegetation Quality
		Select only one. High (5pts) Moderately high (4pts) Moderate (3pts) Moderately low (2pts) Low (1pts)	low	Low spp diversity and/or predominance of nonnative or disturbance Tolerant native species Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
		☐ None (0pts)6c. Coverage of invasive plants. Refer to	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Table 1 ORAM long form for list. Add or deduct points for coverage	Mudflot c	and Open Water Class Quality
		Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)
		Moderate 25-75% cover (-3pts)	1	Low 0.1 to <1ha (0.247 to 2.47)
		Sparse 5-25% cover (-1)	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Magriy shoopt > F0/ sayer (Onto)	3	High 4ha (9.88 acres) or more
		Nearly absent >5% cover (0pts)		7
		Absent (1pts)	Mi 4	<u>, , , , , , , , , , , , , , , , , , , </u>
		☐ Absent (1pts)		pography Cover Scale
		☐ Absent (1pts) 6d. Micro topography	0	pography Cover Scale Absent
		☐ Absent (1pts)		pography Cover Scale

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

	71 11 1	
6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	2
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a.	Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimat buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = $(50m + 25m + 10m + 0m)/4 = 21.25m$. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfence pasture, etc.				
7p	ots WIDE. >50m (164ft) or more around perimeter				
4p	ots MEDIUM. 25m to <50m (82 to <164ft) around the perimeter				
1	pt NARROW. 10m to <25m (32 to <82ft) around the perimeter				
0p	0pts VERY NARROW. <10m (<32ft) around perimeter. □				
2b.	Intensity of predominant surround land use(s). Select one, or double check up to two and average score, for the intensity of the predominant land use(s) outside the wetland's buffer zone (if any).				
7p	ots VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.				
5p	ts LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.				
3p	ts MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.				
1	pt HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.				

3

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 2 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. \boxtimes 2pts Seasonally inundated. П Seasonally saturated in the upper 30cm (12in) of soil.

8

3e.	mo: to e	Nodifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the nost appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater o evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being valuated.					
	reg (Ch ask abo	is very important to stress that this question does not discriminate between wetlands with different types of hydrologic begime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it sks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example bove, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no pparent, modifications to the natural hydrologic regime.					
	cate two	egory to describe the present sta	le past and ongoing disturbances, ate of the wetland. In instances wh is uncertain as to which category i	nere th	e Rater believes that a wetland f	falls between	
	app		s are intended to be descriptive bucategories as fixed locations on a				
			eral of these possible disturband etric 4 where these same distur			l hydrologic	12
	Chec	k all that are observed prese	ent in or near the wetland				
		ditch(es), in or near the we	tland		point source discharges to	the (non-storm	water)
		tile(s), in or near the wetlar	nd		filing/grading activities in or near the wetland		nd
		dike(s), in or near the wetla	and		road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetla	and		dredging activities in or near the wetland		
		storm water inputs (additio	n of water)		other (specify)		
		, ,	,		())/		
		ne answer. Have any of	YES	NO		NOT SURE	
the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to		or appear to have caused in trivial alterations to the is natural hydrologic or have they occurred so past that current y should be considered to	Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.	there	gn a score of 12 since e are no or no apparent ifications.	Double check none apparen "recovered" ar score of 9.5	t" and
be "	natur	ral"?			12		
					12		
Sele	ct on	e or double check adjoining n	umber and average the score.				score 3
12	2pts	NONE OR NONE APPARENT	. There are no modifications or no	o modit	fications that are apparent to the	Rater.	
	pts	RECOVERED. The wetland a	ppears to have recovered from pa	st mod	lifications.		
	3pts	RECOVERING. The wetland	appears to be in the process of red	coverin	g from past modifications		
	1pt		The modifications have occurred ons, and/or the modifications are cons.			d has not	

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Met		determinant for the establishme range of other factors and activ to hydrology. This metric attem items checked as possible hydr disruptions in its development (ent and maintenance of specific typities which affect wetland quality a pts to evaluate these things under rologic disturbances in Question 3 succession state). In other instant 4. In any case, the Rater should of	hile hydrology may be the single to be of wetlands and wetland process and cause disturbances to wetlands in the rubric "habitat alteration." In making will be instead alterations to a wetled to a disturbance may be appropriate carefully consider what is the actual	ses, there is a that are unrelated any instances, and's habitat or ately considered	
4a.	the des loca Exa	soil and surface substrates of the criptive but not controlling. In solutions on a disturbance continuum temples of substrate/soil disturbance.	ne wetland. Note also that the labe ome instances, it may be more app im, from very high to very low or no nce include filling and grading, plo	ge. This question evaluates physicalls on the scoring categories are interpropriate to consider the scoring categories are interpreted to disturbance. wing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-	2
o o o a r r h	of soil caused caused alterat natura nave the	one answer. Have any or substrate disturbances d or appear to have d more than trivial ions to the wetland's I soils or substrates, or hey occurred so far in the nat current conditions I be considered to be al"?	YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" "recovered" and score of 3.5	and
Sel	ect on	e or double check adjoining n	umber and average the score.			score
				o modifications that are apparent to	the Rater.	2
	4pts 3pts	NONE OR NONE APPARENT	There are no modifications or no	o modifications that are apparent to last modifications.	the Rater.	
	4pts	NONE OR NONE APPARENT RECOVERED. The wetland a		st modifications.	the Rater.	2
	4pts 3pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the parappears to be appears to be appeared to the parappear to be appeared to the parappear to be appeared to the parappear	ist modifications. covering from past modifications d, recently occurred, and/or the wetl		2
	4pts 3pts 2pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurred.	ist modifications. covering from past modifications d, recently occurred, and/or the wetl		2
	4pts 3pts 2pts 1pt Hak	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from and/or the modifications are covered from and assign score. This quested and is in comparison to other ecovered from the process of the p	ist modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	2
4b.	4pts 3pts 2pts 1pt Hak ratir This	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati Ditat development. Select only ng of how well developed the we s question presumes a good ser e.	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from and/or the modifications are covered from and assign score. This quested and is in comparison to other ecovered from the process of the p	st modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically since range in quality typical of the region	and has not rall qualitative milar wetlands.	2
4b.	4pts 3pts 2pts 1pt Hat ratiir This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser e. EXCELLENT. Wetland appea	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from a parappears to be in the process of recovered from a parapetric from a parapetri	st modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically since range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
4b.	4pts 3pts 2pts 1pt Hat ratin This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser e. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent.	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be and assign score. This quested and is in comparison to other econse of the types of wetlands and the parappears to be a very good example of its type are to be a very good example of its type or class.	st modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically since range in quality typical of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
4b.	4pts 3pts 2pts 1pt Hak ratir This stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser e. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be and assign score. This quested and is in comparison to other econse of the types of wetlands and the parappears to be a very good example of its type are to be a very good example of its type or class.	st modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. s type or class but is lacking in characters but because of past or present despite the covering the cov	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	3
4b.	4pts 3pts 2pts 1pt Hat ratin This stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification of tat development. Select only ng of how well developed the we s question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from a papears to be in the process of recovered from a papears to be and assign score. This quest estand is in comparison to other econse of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the types of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the type of the process of the type of the	st modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. s type or class but is lacking in characters but because of past or present despite the covering the cov	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	2
4b.	4pts 3pts 2pts 1pt Hat ratiin This stat 7pts 6pts 5pts 4pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification oitat development. Select only ng of how well developed the we s question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re MODERATELY GOOD. Wetland FAIR. Wetland appears to be disturbances, successional state.	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from a papears to be in the process of recovered from a papears to be and assign score. This quest estand is in comparison to other econse of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the types of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the process of the type of the type of the process of the type of the	ist modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. Is type or class but is lacking in characteristics but because of past or present decample of its type or class. type or class but because of past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	2

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4c.	evaluated. This question does not alterations that are observed. All a possible alteration. Evaluate whet appropriate score that best describ scores. In some instances, the sco	discriminate between wetla vailable information, field vister the alteration is trivial in es the present state of the vores can be viewed as a hab	nds wit sits, ae relatior wetland oitat alte	ral habitat of the type of wetland that in the different types of habitat. Check all riral photos, maps, etc. can be used to not the wetlands overall habitat. Sele it it is appropriate to "double check" a gration continuum, from very high to vole disturbances, yet still determine	possible identify a ect the most nd average ery low or no	3
С	heck all that are observed prese	ent in or near the wetlan	d			
				Herbaceous layer/aquatic be	d removal	
	☐ Grazing (cattle, s	heep, pigs, etc.)		Sedimentation		
				Dredging		
	☐ Selective cutting			Farming		
	☐ Woody debris rer	noval		Nutrient enrichment, e.g. nuis	sance algae	
	☐ Toxic pollutants			Other (specify)		
	☐ Shrub/sapling rer	moval		Other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the Section 1.3 or 6, or an intermediate score, the section 1.3 or 6.			NO Assign a score of 9 since there are no or no apparent modifications.	NOT SURE Double check none apparen "recovered" at score of 7.5	t" and	
Selec	t one or double check adjoining n	umber and average the so	core.			score
	A NONE OF NONE APPARENT			W C W A D A		3
<u> </u>	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a			Iterations that are apparent to the Rat	er.	
·	ots RECOVERED. The wetland	• • • • • • • • • • • • • • • • • • • •	•			⊠
·		/. The alterations/ have occ	curred,	recently occurred, and/or the wetland	has not	
Metric				r deduct points if wetland has the featt nore than 10 points even if multiple ca		
	Bog (10pts)			Lake plains sand prairies (Oak	Openings) (10 p	ts)
	Fen (10 pts)			Relict wet prairies (10 pts)		
	Old Growth Forest (10 pts)			Known occurrence of threaten	ed/endangered s	pecies (10pts)
	Mature Forested Wetland (5 p	ts)		Significant migratory songbird/	waterfowl habita	(10 pts)
	Coastal wetlands, unrestricted	l hydrology (10 pts)	\boxtimes	Category 1 wetlands (See Nar	rative Rating #5)	(-10 pts)
	Coastal wetlands, restricted h	ydrology (5 pts)				

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	4
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	3
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	1
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	0

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

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	rizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as e looking down upon it. See Figure 1.	3
5pts	HIGH. Wetland has a high degree of interspersion	
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion	
3pts	MODERATE. Wetland has a moderate degree of interspersion	⊠
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	
1pt	LOW. Wetland has a low degree of interspersion	
0pts	NONE. Wetland has no plan view interspersion	

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	0
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	⊠
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	0
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

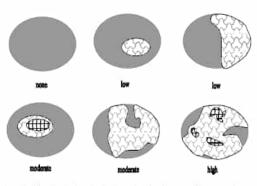


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

32 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Quest 11: Relict Wet Prairies	☐YES ⊠ NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	1	
	Metric 3: Hydrology	10	
	Metric 4: Habitat	7	
	Metric 5: Special Wetland Communities	-10	
	Metric 6: Plant communities, interspersion, microtopography	4	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	13	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation			
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	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding 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	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 (including 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 undercategorized by the ORAM			
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	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. 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 an quantitative score.			
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.			
Final Category Choose One						

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating	1 0/07/04
Site:	West Lan	ncaster - WL-68-PEM Rater(s): E. Holt Da	ate: 3/27/24
1	1	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. 50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
3	4	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 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field	d. (3pts)
	ı	HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
18	22	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	is) nd other human use (1pts) (e.g. forest), complex (1pts) d corridor (1pts) n. Score one or dbl check. hundated/saturated (4pts) irated (3pts)
		☐ Recovered (7pts) ☐ Ditch ☐ Point ☐ Recovering (3pts) ☐ Tile ☐ Filing	
10	32	Metric 4. Habitat Alteration and Development.	
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts) 4c. Habitat alteration. Score one or double-check and average.	
	32 Subtotal th	☑ Recovering (3pts) ☐ Grazing ☐ Her ☐ Recent or no recovery (1pts) ☑ Clear-cutting ☐ Sec ☑ Selective cutting ☐ Dre ☐ Woody debris removal ☐ Farr ☐ Toxic pollutants ☐ Nut	rub/sapling removal rbaceous/aquatic bed removal dimentation edging rming trient enrichment
	- Labrotal ti	···- r-·o-	

Metric 5. Special wetlands.	Site:	West I and	caster	- WI -68-PFM	Rater(s):	E. Holt		Date: 3/27/24	4
Metric 5. Special wetlands. Check all that apply and score as indicated Bog (10pts)	OILC.	vvosi Laii	Jasici	- VVL-00-1 LIVI	Tracer(s).	L. HOIL		Date. 3/21/2	-
Metric 5. Special wetlands. Max 10pts									
Metric 5. Special wetlands. Max 10pts		32							
Max 10pts Subtotal Check all that apply and acore as indicated Bog (10pts) Check all that apply and acore acore and acore and acore and acore and acore and acore and acore and acore acore and acore acore and acore acore and acore acore and acore acor		52							
Max 10pts Subtotal Check all that apply and acore as indicated Bog (10pts) Check all that apply and acore acore and acore and acore and acore and acore and acore and acore and acore acore and acore acore and acore acore and acore acore and acore acor									
Mex 10pts Subtotal Check all that apply and score as indicated Bog (10pts) Fen (10pts) Germany of the period (10pts) Fen (10pts) Fen (10pts) Germany of the period (10pts) Fen (10pts) Germany of the period (10		Subtotal first pa	ge						
Mex 10pts Subtotal Check all that apply and score as indicated Bog (10pts) Fen (10pts) Germany of the period (10pts) Fen (10pts) Fen (10pts) Germany of the period (10pts) Fen (10pts) Germany of the period (10	40	00							
Check all that apply and score as indicated Bog (10pts) Fen (10pts) Fen (10pts) Hartur foreset (10pts) Gentleman	-10	22	Met	ric 5. Speci	al wetland	ds.			
Bog (10pts) Fen (10pts) Clipts (10pts) Clipts (10pts) Clipts (10pts) Clipts (10pts) Clipts (10pts) Clipts (10pts) Clake Eric coastal/tributary wetland-restricted hydrology (10pts) Lake Eric coastal/tributary wetland-restricted hydrology (5pts) Lake Plan Sand Prairies (Dak Openings) (10pts) Relict Wet Prairies (10pts) Relict Notes (10pts) Relict Wet Prairies (10pts) Relict Notes (10pts) Relict Wet Prairies (10pts) Relic				с. срес.					
Fen (10pts)	Max 10pts	Subtotal			as indicated				
Metric 6. Plant communities, interspersion, micro topography 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale. 0 Aquatic Bed 2 Emergent 3 Shrub 4 Present and either comprises small part of wetland's vegetation and of moderate quality, or comprises a small part part put is of low que 4 Other 5 Open Water 5 Other 6				Fen (10pts)					
Metric 6. Plant communities, interspersion, micro topography 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale. Aquatic Bed Exergent Sopen Water Other				Old growth fores					
Metric 6. Plant communities, interspersion, micro topography 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale. Aquatic Bed Exergent Sopen Water Other				☐ Nature forested		unrestricted hy	drology (10pts)		
Metric 6. Plant communities, interspersion, micro topography 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale. Aquatic Bed Exergent Sopen Water Other				Lake Erie coasta	al tributary wetland-r	restricted hydro			
Metric 6. Plant communities, interspersion, micro topography 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale. 0 Aquatic Bed 2 Emergent 3 Shrub 4 Present and either comprises small part of wetland's vegetation and of moderate quality, or comprises a small part part put is of low que 4 Other 5 Open Water 5 Other 6				Lake Plain Sand		nings) (10pts)			
Metric 6. Plant communities, interspersion, micro topography 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale. 0 Aquatic Bed 2 Emergent 3 Shrub 4 Present and either comprises small part of wetland's vegetation and of moderate quality, or comprises a small part part put is of low que 4 Other 5 Open Water 5 Other 6				☐ Kelict wet Prairie ☐ Known occurren		eatened or end	angered species (10pts)		
Metric 6. Plant communities, interspersion, micro topography 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale. 0 Aquatic Bed 2 Emergent 3 Shrub 4 Present and either comprises small part of wetland's vegetation and of moderate quality, or comprises a small part part put is of low que 4 Other 5 Open Water 5 Other 6			i	Significant migra					
Max 20 pts. Subtotal Subtotal Subtotal Subtotal Score all present using 0 to 3 scale.					and. See Question	1 Qualitative F	Rating (-10pts)		
Max 20 pts. Subtotal Subtotal Subtotal Subtotal Score all present using 0 to 3 scale.									
Max 20 pts. Subtotal Sa. Wetland Vegetation Communities Score all present using 0 to 3 scale. O Absent or comprises of .1 ha (0.2471 acres) contiguous area	3	25	NAGE	rio 6 Diant		tice int	arabaraian miara tan	a aranhu	
Score all present using 0 to 3 scale. O Aquatic Bed Emergent O Shrub O Forest O Mudflats O Open Water O Other O High (Spts) Moderate (Jpts) with (Jpts) Moderate (Jots) Moder			iviet	nc o. Plant	Communi	ues, me	erspersion, micro top	ograpny	
1 Present and either comprises small part of wetland's vegetation and of moderate quality, or comprises a significant part put is of low que present and either comprises a significant part put is of low que present and either comprises as significant part put is of low que present and either comprises as significant part of wetland's vegetation of moderate quality, or comprises a significant part of wetland's vegetation of moderate quality or comprises as mall part and is of low que present and comprises significant part, or more of wetland's vegetation of moderate quality or comprises as mall part and is of low que present and is of high quality. Owner Other Ot	Max 20 pts.	Subtotal	6a.	Wetland Vegetation Co	ommunities	Vegetation	on Community Cover Scale		
2					g 0 to 3 scale.	0			
Shrub				_ '		1	1	•	
Forest				_					
Open Water						2			
Other 6b. Horizontal (plan view) Interspersion Select only one. High (5pts) Ilow Low spp diversity and/or predominance of nonnative or disturbance Tolerant native species Moderate (3pts) Modera						3		, or more of wetland's vege	tation
6b. Horizontal (plan view) Interspersion Select only one. High (5pts)			0	- '			and is of high quality		
Select only one. High (5pts) Hoderately high (4pts) Moderate (3pts) Moderately low (2pts) Low (1pts) Mone (1pts) Mone (1pts) Moderate of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-3pts) Moderate (25-75% cover (-1) Nearly absent >5% cover (0pts) Absent (1pts) Moderate (1pts) Moderate (25-75% cover (0pts) Moderate (25-75% cover (1pts) Moderate (25-75% cover (-1) Moderate (25-75% cover (1pts) Mode					.				
High (5pts)			6b.	" ,	Interspersion				
Moderately high (4pts) Moderately high (4pts) Moderately low (2pts) Curve (1pts) Moderately low (2pts) Low (1pts) None (0pts) Moderately low (2pts) Low (1pts) None (0pts) high A predominance of native species, with nonnative spp and/or disturbance tolerant native spp and/or disturbance of native species, with nonnative sp			г			low		e of nonnative or disturband	ce
Moderate (3pts)					ots)	mod	•	f the vegetation, although n	onnative
None (0pts)				Moderate (3pts)	,		and/or disturbance tolerant native sp	p can also be present, and	species
None (0pts)				Moderately low (2pt	ts)			h, but generally w/o presen	ce of
tolerant native spp absent or virtually absent, and high spp diversity often, but not always, the presence of rare, threatened, or endanged muddlet and Open Water Class Quality Extensive >75% cover (-5pts)						high		nonnative snn and/or dist	urhance
Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5pts) Moderate 25-75% cover (-3pts) Sparse 5-25% cover (-1) Nearly absent >5% cover (0pts) Absent (1pts) Mudflat and Open Water Class Quality 0 Absent <0.1ha (0.247 acres) 1 Low 0.1 to <1ha (0.247 to 2.47) 2 Moderate 1 to <4ha (2.47 to 9.88 acres) 3 High 4ha (9.88 acres) or more Micro topography Cover Scale 6d. Micro topography Score all present using 0 to 3 scale. 0 Vegetated hummocks/tussocks Coarse woody debris >15cn (6in) 5 Standing dead >25cm (10in) dbh 7 Present in moderate amounts or if more common of marginal quality 1 Present in moderate amounts, but not of highest quality or In small amounts of highest quality 7 Present in moderate or greater amounts and of highest quality			_	1 None (opts)		iligii			
Add or deduct points for coverage Extensive >75% cover (-5pts) Moderate 25-75% cover (-3pts) Sparse 5-25% cover (-1) Nearly absent >5% cover (0pts) Absent (1pts) Micro topography Score all present using 0 to 3 scale. Vegetated hummocks/tussocks Coarse woody debris >15cn (6in) Standing dead >25cm (10in) dbh Moderate 25-75% cover (-3pts) 1			6c.	•			often, but not always, the presence of	of rare, threatened, or endar	ngered spp
□ Extensive >75% cover (-5pts) 0 Absent <0.1ha (0.247 acres) □ Moderate 25-75% cover (-3pts) 1 Low 0.1 to <1ha (0.247 to 2.47) □ Sparse 5-25% cover (-1) 2 Moderate 1 to <4ha (2.47 to 9.88 acres) □ Nearly absent >5% cover (0pts) 3 High 4ha (9.88 acres) or more □ Absent (1pts) 6d. Micro topography Score all present using 0 to 3 scale. □ Vegetated hummocks/tussocks Coarse woody debris >15cn (6in) 0 Standing dead >25cm (10in) dbh 1 Description Absent <0.1ha (0.247 acres) 1 Low 0.1 to <1ha (0.247 to 9.88 acres) 1 9.88 acres) 1 Micro topography Cover Scale 1 Present very scale 1 Present very small amounts or if more common of marginal quality or In small amounts of highest quality or In small amounts of highest quality 1 Present in moderate or greater amounts and of highest quality						Mudflete	nd Open Water Class Quality		
Moderate 25-75% cover (-3pts) 1			_		•				
Sparse 5-25% cover (-1) Nearly absent >5% cover (0pts) Absent (1pts) Micro topography Score all present using 0 to 3 scale. Vegetated hummocks/tussocks O Coarse woody debris >15cn (6in) Standing dead >25cm (10in) dbh Moderate 1 to <4ha (2.47 to 9.88 acres) Might 4ha (9.88 acres) Micro topography Cover Scale O Absent Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or In small amounts of highest quality Present in moderate or greater amounts and of highest quality					` ' '		` '		
Absent (1pts) Micro topography Cover Scale O Absent Score all present using 0 to 3 scale. Vegetated hummocks/tussocks Coarse woody debris >15cn (6in) Standing dead >25cm (10in) dbh Micro topography Cover Scale O Absent Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or In small amounts of highest quality Present in moderate or greater amounts and of highest quality					,	2	· · · · · · · · · · · · · · · · · · ·	s)	
Micro topography Cover Scale 6d. Micro topography Score all present using 0 to 3 scale. 0 Vegetated hummocks/tussocks Coarse woody debris >15cn (6in) 0 Standing dead >25cm (10in) dbh Micro topography Cover Scale 0 Present very small amounts or if more common of marginal quality 1 Present very small amounts or if more common of marginal quality 2 Present in moderate amounts, but not of highest quality or In small amounts of highest quality 3 Present in moderate or greater amounts and of highest quality				Nearly absent >5%	cover (0pts)	3	High 4ha (9.88 acres) or more	•	
6d. Micro topography Score all present using 0 to 3 scale. 0 Vegetated hummocks/tussocks Coarse woody debris >15cn (6in) Standing dead >25cm (10in) dbh 0 Absent 1 Present very small amounts or if more common of marginal quality 2 Present in moderate amounts, but not of highest quality or In small amounts of highest quality 3 Present in moderate or greater amounts and of highest quality				Absent (1pts)		NA:			
Score all present using 0 to 3 scale. 1 Present very small amounts or if more common of marginal quality 2 Present in moderate amounts, but not of highest quality or 3 In small amounts of highest quality 4 Present in moderate amounts, but not of highest quality or 5 In small amounts of highest quality 6 Present in moderate or greater amounts and of highest quality			64	Migra tong graphy					
0 Vegetated hummocks/tussocks 2 Present in moderate amounts, but not of highest quality or 0 Coarse woody debris >15cn (6in) In small amounts of highest quality 0 Standing dead >25cm (10in) dbh 3 Present in moderate or greater amounts and of highest quality			ou.		n 0 to 3 scale			common of marginal quality	v
0 Coarse woody debris >15cn (6in) In small amounts of highest quality 0 Standing dead >25cm (10in) dbh 3 Present in moderate or greater amounts and of highest quality			0	_ '					у
							In small amounts of highest quality		
0 Amphibian broading pools				~	` '	3	Present in moderate or greater amount	ts and of highest quality	
Amphibian preeding pools			0	Amphibian breeding	g pools				

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	1
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.						
7pts	WIDE. >50m (164ft) or more around perimeter					
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter					
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter					
0pts	VERY NARROW. <10m (<32ft) around perimeter.	\boxtimes				
	ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).		3			
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.					
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.					
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.					
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.					

4

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 4 5pts High pH groundwater (7.5-9.0) Other groundwater \boxtimes 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

11

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

r t	e. Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.					
r (8	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (<i>Chamaedaphne calyculata</i>) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to <i>that type of wetland</i> . In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.					
t	Once the Rater has listed all possib category to describe the present sta wo categories, or where the Rater average the score.	ate of the wetland. In instances w	here th	e Rater believes that a wetland t	alls between	
á	The labels on the scoring categorie appropriate to consider the scoring very low or no disturbance.					
	The Rater may check one or sever regime is intact. However, see M				l hydrologic	12
Ch	eck all that are observed pres	ent in or near the wetland				
	ditch(es), in or near the we	etland		point source discharges to	the (non-storm	water)
	tile(s), in or near the wetla	nd		filing/grading activities in o	r near the wetla	and
	dike(s), in or near the wetle	and		road beds/RR beds in or n	ear the wetland	I
	weir(s), in or near the wetla	and		dredging activities in or ne	ar the wetland	
	storm water inputs (addition	on of water)		other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused Assign a score 1, 3 or 7, Assign a score of 12 since Double of the disturbances identified above caused or appear to have			NOT SURE Double check			
wetlan regime far in t hydrol	more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?					
DC 11a	шш :			12		
Select	one or double check adjoining n	number and average the score.				score 1
12pt	NONE OR NONE APPARENT	T. There are no modifications or no	o modi	fications that are apparent to the	Rater.	
7pt:	s RECOVERED. The wetland a	appears to have recovered from pa	st mod	lifications.		
3pt	s RECOVERING. The wetland	appears to be in the process of re	coverir	g from past modifications		

RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.

24

 \boxtimes

Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.					
4a.					
Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"? YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance. NO Assign a score of 4 since there are no or no apparent modifications. POURE Double check "none modifications." recovered" and assign a score of 4 since there are no or no apparent modifications.				and	
Select one or double check adjoining number and average the score.					
Sele	lect one or double check adioining	number and average the score.			score
					2
	4pts NONE OR NONE APPARE	NT. There are no modifications or n	o modifications that are apparent to	the Rater.	2
	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan	NT. There are no modifications or n	ast modifications.	the Rater.	2
	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan	NT. There are no modifications or n d appears to have recovered from pa d appears to be in the process of re	ast modifications.		2 □ □
	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE	NT. There are no modifications or n d appears to have recovered from pa d appears to be in the process of re	ast modifications. covering from past modifications ed, recently occurred, and/or the wetl		2
	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE recovered from past modific Habitat development. Select o rating of how well developed the	NT. There are no modifications or not appears to have recovered from part of appears to be in the process of recovery. The modifications have occurrectations, and/or the modifications are also only one and assign score. This questive that is in comparison to other exceptions.	ast modifications. covering from past modifications ed, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	2 □ □
4b.	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE recovered from past modific Habitat development. Select o rating of how well developed the This question presumes a good state.	NT. There are no modifications or not appears to have recovered from part of appears to be in the process of recovery. The modifications have occurrectations, and/or the modifications are also only one and assign score. This questive that is in comparison to other exceptions.	ast modifications. covering from past modifications ed, recently occurred, and/or the wetl ongoing. etion asks the Rater to assign an ove cologically or hydrogeomorphically si ne range in quality typical of the regio	and has not rall qualitative milar wetlands.	2
4b.	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE recovered from past modific Habitat development. Select or rating of how well developed the This question presumes a good state. 7pts EXCELLENT. Wetland app	NT. There are no modifications or not appears to have recovered from part appears to be in the process of recovery. The modifications have occurrent ations, and/or the modifications are supply one and assign score. This quest wetland is in comparison to other extense of the types of wetlands and the ears to represent the best of its types.	ast modifications. covering from past modifications ed, recently occurred, and/or the wetl ongoing. etion asks the Rater to assign an ove cologically or hydrogeomorphically si ne range in quality typical of the regio	and has not rall qualitative milar wetlands. on, watershed, or	2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
4b.	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE recovered from past modific Habitat development. Select o rating of how well developed the This question presumes a good state. 7pts EXCELLENT. Wetland app 6pts VERY GOOD. Wetland app would make it excellent.	NT. There are no modifications or not appears to have recovered from particle displayed appears to be in the process of reactions, and/or the modifications are allowed as a sign score. This questions and assign score. This questions are the types of wetlands and the sears to represent the best of its type are as to be a good example of its type or classifications.	ast modifications. covering from past modifications ed, recently occurred, and/or the wetl ongoing. stion asks the Rater to assign an ove cologically or hydrogeomorphically si ne range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	2
4b.	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE recovered from past modifie Habitat development. Select o rating of how well developed the This question presumes a good state. 7pts EXCELLENT. Wetland app 6pts VERY GOOD. Wetland app would make it excellent. 5pts GOOD. Wetland appears t successional state, or other	NT. There are no modifications or not appears to have recovered from particle displayed appears to be in the process of reactions, and/or the modifications are allowed as a sign score. This questions and assign score. This questions are the types of wetlands and the sears to represent the best of its type are as to be a good example of its type or classifications.	ast modifications. covering from past modifications ed, recently occurred, and/or the wetl ongoing. stion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the region or class. ts type or class but is lacking in char ass but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	2
4b.	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE recovered from past modific Habitat development. Select o rating of how well developed the This question presumes a good state. 7pts EXCELLENT. Wetland app would make it excellent. 5pts GOOD. Wetland appears to successional state, or other 4pts MODERATELY GOOD. Wetland	NT. There are no modifications or not appears to have recovered from particle dappears to be in the process of reactions, and/or the modifications are attions, and/or the modifications are attions, and/or the modifications are not only one and assign score. This quest wetland is in comparison to other extense of the types of wetlands and the ears to represent the best of its type nears to be a very good example of its type or characteristic processes, is not excellent.	ast modifications. covering from past modifications ed, recently occurred, and/or the wetl ongoing. stion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the region or class. ts type or class but is lacking in char ass but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which listurbances,	2
4b.	4pts NONE OR NONE APPARE 3pts RECOVERED. The wetlan 2pts RECOVERING. The wetlan 1pt RECENT OR NO RECOVE recovered from past modific Habitat development. Select o rating of how well developed the This question presumes a good state. 7pts EXCELLENT. Wetland app would make it excellent. 5pts GOOD. Wetland appears to successional state, or other 4pts MODERATELY GOOD. Wetland appears to disturbances, successional	NT. There are no modifications or not appears to have recovered from particle dappears to be in the process of reactions, and/or the modifications are attions, and/or the modifications are attions, and/or the modifications are not only one and assign score. This quest wetland is in comparison to other extense of the types of wetlands and the ears to represent the best of its type nears to be a very good example of its type or characteristic processes, is not excellent.	ast modifications. covering from past modifications ad, recently occurred, and/or the wetl ongoing. stion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the region or class. Its type or class but is lacking in char ass but because of past or present d company to the company to th	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which listurbances,	2

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eval alter poss app scor distr	4c. Habitat alteration. This question evaluates the "intactness" the natural habitat of the type of wetland that is being evaluated. This question does not discriminate between wetlands with different types of habitat. Check all possible alterations that are observed. All available information, field visits, aerial photos, maps, etc. can be used to identify a possible alteration. Evaluate whether the alteration is trivial in relation to the wetlands overall habitat. Select the most appropriate score that best describes the present state of the wetland. It is appropriate to "double check" and average scores. In some instances, the scores can be viewed as a habitat alteration continuum, from very high to very low or no disturbance. The Rater may check one or several of these possible disturbances, yet still determine that the natural habitat is intact.							
Chec	k all that	are observed prese	ent in or near the wetland	b				-
		Mowing	!			Herbaceous layer/aquatic bed	l removal	
		Grazing (cattle, sl	heep, pigs, etc.)			Sedimentation		
		Clear cutting			\perp	Dredging		
		Selective cutting				Farming		
		Woody debris ren	noval		\perp	Nutrient enrichment, e.g. nuisa	ance algae	
		Toxic pollutants			\perp	Other (specify)		
		Shrub/sapling ren	noval		$oxed{oxed}$	Other (specify)		
the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so		YES Assign a score 1, 3 or 6 or an intermediate scor depending on degree or recovery from the disturbance.	B or 6, Assign a score of 9 since Score, there are no or no apparent modifications. Double none a "recove"		none apparer	check "none or oparent" and red" and assign a		
			number and average the sc		- Hor	" 45 at any apparent to the Rate		score 3
9pts 6pts			appears to have recovered fr			rations that are apparent to the Rate	ır.	
3pts			appears to have recovered in					
1pt	RECENT	T OR NO RECOVERY		urred,	, rece	cently occurred, and/or the wetland h	nas not	
		Narrative Rating for gu				educt points if wetland has the featur e than 10 points even if multiple cate		
Вс	og (10pts	(ن			Īι	Lake plains sand prairies (Oak	Openings) (10 p	ots)
☐ Fe	en (10 pts	s)			F	Relict wet prairies (10 pts)		
	d Growth	h Forest (10 pts)			Tr	Known occurrence of threatene	d/endangered s	species (10pts)
☐ Ma	ature For	rested Wetland (5 p	ots)		[5	Significant migratory songbird/w	vaterfowl habita	t (10 pts)
☐ Co	oastal we	etlands, unrestricted	d hydrology (10 pts)	\boxtimes		Category 1 wetlands (See Narra	ative Rating #5)	(-10 pts)
☐ Co	oastal wε	etlands, restricted hy	ydrology (5 pts)	_	l			

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	2
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	
	Open water . The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	
	Other (See User's Manual)	· · · · · · · · · · · · · · · · · · ·

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

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6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.			
5pts	HIGH. Wetland has a high degree of interspersion		
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion		
3pts	MODERATE. Wetland has a moderate degree of interspersion	\boxtimes	
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion		
1pt	LOW. Wetland has a low degree of interspersion		
0pts	NONE. Wetland has no plan view interspersion		

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	-1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate	
various microtopographic habitat features often present in wetlands.	0
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

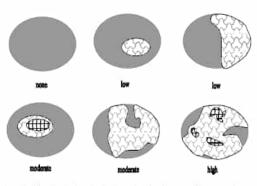


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

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GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🛛 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🗵 NO	If yes, Category 3.
	Questions 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.
	Quest 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	3	
	Metric 3: Hydrology	10	
	Metric 4: Habitat	6	
	Metric 5: Special Wetland Communities	-9	
	Metric 6: Plant communities, interspersion, microtopography	7	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	19	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation		
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	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding 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	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 (including 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 undercategorized by the ORAM		
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	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. 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 an quantitative score.		
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.		
Final Category Choose One ⊠ Category 1 □ Category 2 □ Category 3					

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating						
Site:	West Lan	caster - WL-60-PEM Rater(s): E. Holt, L. Vine Date: 3/27/24						
2	2	Metric 1. Wetland Area (size).						
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.12 to 1.2ha) (2pts)						
4	6	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 50 m (164ft) or more around wetland perimeter (7pts) ☐ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3pts) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)						
	ı	☐ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)						
13	19	Metric 3. Hydrology.						
Max 30 pts.	subtotal	High pH groundwater (5pts) 100 year floodplain (1pts) Between stream/lake and other human u Precipitation (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Part of riparian or upland corridor (1pts) Seasini to riparian or upland corridor (1pts) Part of riparian or upland corri						
		□ None or none apparent (12pts) Check all disturbances observed □ Recovered (7pts) □ Ditch □ Point source (non-storm wate □ Recovering (3pts) □ Tile □ Filing/grading □ Recent or no recovery (1pts) □ Dike □ Road bed/RR track □ Weir □ Dredging □ Storm water input Other	:r) -					
10	29	Metric 4. Habitat Alteration and Development.						
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts) 4c. Habitat alteration. Score one or double-check and average.						
	29	None or none apparent (9pts) Check all disturbances observed Shrub/sapling removal Recovering (3pts) Grazing Herbaceous/aquatic bed ren Sedimentation Selective cutting Dredging Woody debris removal Farming Toxic pollutants Nutrient enrichment Nutrient enrichment	noval					
	Subtotal th	iio hade						

Site:	West Lan	caster - WL-60-PEM Rater(s):	E. Holt	Date: 3/27/24				
		•		·				
	20							
	29							
	Subtotal first pa	age						
	1	ľ						
40	40							
-10	19	Metric 5. Special wetlands	2					
		Metric J. Opediai wetiarid.	Э.					
Max 10pts	Subtotal	Check all that apply and score as indicated						
		☐ Bog (10pts)						
		Fen (10pts)						
		Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 pts)						
		Lake Erie coastal/tributary wetland-un	restricted hy	rdrology (10pts)				
			ngs) (10pts)					
		Relict Wet Prairies (10pts) Known occurrence state/federal threa	tanad ar and	langered enecies (10nts)				
		Significant migratory songbird/water for						
		☐ Category 1 Wetland. See Question 1						
4	23							
-	23	Metric 6 Plant communiti	es inte	erspersion, micro topography				
		Moure of Franciscon Indiana	00 , ii it	oroporoion, mioro topograpny				
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities	Vegetation	on Community Cover Scale				
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area				
		0 Aquatic Bed	1	Present and either comprises small part of wetland's vegetation and is				
		3 Emergent 1 Shrub		of moderate quality, or comprises a significant part put is of low quality Present and either comprises significant part of wetland's vegetation and is				
		0 Forest	-	of moderate quality or comprises a small part and is of high quality				
		0 Mudflats	3	Present and comprises significant part, or more of wetland's vegetation				
		0 Open Water		and is of high quality				
		Other						
		6b. Horizontal (plan view) Interspersion	Narrative	Description of Vegetation Quality				
		Select only one.	low	Low spp diversity and/or predominance of nonnative or disturbance				
		☐ High (5pts)		Tolerant native species				
		☐ Moderately high (4pts)	mod	Native spp are dominant component of the vegetation, although nonnative				
		Moderately low (2pts)		and/or disturbance tolerant native spp can also be present, and species				
		✓ Moderately low (2pts)✓ Low (1pts)		diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp				
		□ None (0pts)	high	A predominance of native species, with nonnative spp and/or disturbance				
			=	tolerant native spp absent or virtually absent, and high spp diversity and				
		6c. Coverage of invasive plants. Refer to		often, but not always, the presence of rare, threatened, or endangered spp				
		Table 1 ORAM long form for list.	Mudflat and Open Water Class Quality					
		Add or deduct points for coverage Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)				
		Moderate 25-75% cover (-3pts)	1	Low 0.1 to <1ha (0.247 to 2.47)				
		 Sparse 5-25% cover (-1) 	2	Moderate 1 to <4ha (2.47 to 9.88 acres)				
		☐ Nearly absent >5% cover (0pts)	3	High 4ha (9.88 acres) or more				
		Absent (1pts)		·				
				ography Cover Scale				
		6d. Micro topography	0	Absent				
		Score all present using 0 to 3 scale.	1	Present very small amounts or if more common of marginal quality				
		0 Vegetated hummocks/tussocks	2	Present in moderate amounts, but not of highest quality or				
		0 Coarse woody debris >15cn (6in) 0 Standing dead >25cm (10in) dbh	3	In small amounts of highest quality Present in moderate or greater amounts and of highest quality				
		0 Standing dead >25cm (10m) dbn 0 Amphibian breeding pools	<u> </u>	The sent in moderate or greater amounts and or nightest quality				

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.					
7	pts	WIDE. >50m (164ft) or more around perimeter			
4	pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter			
	1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter	⊠		
0	pts	VERY NARROW. <10m (<32ft) around perimeter.			
2b. Intensity of predominant surround land use(s). Select one, or double check up to two and average score, for the intensity of the predominant land use(s) outside the wetland's buffer zone (if any).					
7	pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.			
5	pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.			
3	pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.	\boxtimes		
	1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.			

6

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 4 5pts High pH groundwater (7.5-9.0) Other groundwater \boxtimes 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 2 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. \boxtimes 2pts Seasonally inundated. П

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e.	Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.							
	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.							
	cate two	egory to describe the present sta	ole past and ongoing disturbances, ate of the wetland. In instances while the wetland is uncertain as to which category in	here th	e Rater believes that a wetland	alls between		
	app ver	propriate to consider the scoring y low or no disturbance. The Rater may check one or seve	s are intended to be descriptive be categories as fixed locations on a eral of these possible disturbane letric 4 where these same distur	hydrol	ogic disturbance continuum, fror still determine that the natura	n very high to	12	
		k all that are observed prese		Dance	s may be mabitat afterations.			
		ditch(es), in or near the we			point source discharges to	the (non-storm	water)	
		tile(s), in or near the wetlar	nd		filing/grading activities in o	s in or near the wetland		
	П	dike(s), in or near the wetla	and	□ road beds/RR beds in or near the wetland				
		weir(s), in or near the wetla		Ħ	dredging activities in or near the wetland			
	$\overline{\Box}$	storm water inputs (additio			other (specify)			
		oto trator inpute (unusue			and (apacity)			
		ne answer. Have any of	YES	NO		NOT SURE		
more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so		or appear to have caused in trivial alterations to the is natural hydrologic or have they occurred so past that current y should be considered to	Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.	there are no or no apparent none apparent modifications. recovered		Double check none apparer "recovered" a score of 9.5	it" and	
		a an dauble about 1999					score	
Sele	ect on	e or double check adjoining n	umber and average the score.				12	
1	2pts	NONE OR NONE APPARENT	. There are no modifications or no	o modi	fications that are apparent to the	Rater.	⊠	
	7pts	RECOVERED. The wetland a	ppears to have recovered from pa	ast mod	difications.			
	3pts RECOVERING. The wetland appears to be in the process of recovering from past modifications							

RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.

32

	Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.					
4a.	 Substrate/Soil Disturbance. Select one or double check and average. This question evaluates physical disturbances to the soil and surface substrates of the wetland. Note also that the labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a disturbance continuum, from very high to very low or no disturbance. Examples of substrate/soil disturbance include filling and grading, plowing, grazing (hooves), vehicle use (motorbikes, off-road vehicles, construction vehicles), sedimentation, dredging, and other mechanical disturbances to the surface substrates or soils. 					
Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"? YES Assign a score of 4 since there are no or no apparent modifications. Assign a score of 4 since there are no or no apparent modifications. NO Assign a score of 4 since there are no or no apparent modifications. The past that current conditions should be considered to be "natural"?					and	
Select one or double check adjoining number and average the score.					score	
			umber and average the score.			3
	4pts			o modifications that are apparent to	the Rater.	
		NONE OR NONE APPARENT			the Rater.	
	4pts 3pts 2pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland	There are no modifications or no ppears to have recovered from parappears to be in the process of re-	ast modifications.		
	4pts 3pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no ppears to have recovered from parappears to be in the process of re-	ast modifications. covering from past modifications d, recently occurred, and/or the wetl		
4b.	4pts 3pts 2pts 1pt Hateratin	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati citat development. Select only ng of how well developed the we s question presumes a good ser	There are no modifications or no appears to have recovered from parappears to be in the process of reference ones, and/or the modifications are one and assign score. This questand is in comparison to other economic are not one and assign score to other economic are not one and assign score.	ast modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	
	4pts 3pts 2pts 1pt Hateratin	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati contact development. Select only ng of how well developed the we se question presumes a good server.	There are no modifications or no appears to have recovered from parappears to be in the process of reference ones, and/or the modifications are one and assign score. This questand is in comparison to other economic are not one and assign score to other economic are not one and assign score.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands.	
	4pts 3pts 2pts 1pt Hat ratin This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ie. EXCELLENT. Wetland appear	There are no modifications or no ppears to have recovered from parappears to be in the process of red. The modifications have occurre ons, and/or the modifications are one and assign score. This questiand is in comparison to other express of the types of wetlands and the rest to represent the best of its type	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	4
	4pts 3pts 2pts 1pt Hatirating This state 7pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ite. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent.	There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurre ons, and/or the modifications are one and assign score. This questand is in comparison to other extense of the types of wetlands and the rest to represent the best of its type are to be a very good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4
	4pts 3pts 2pts 1pt Hat ratin This stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurre ons, and/or the modifications are one and assign score. This questand is in comparison to other extense of the types of wetlands and the rest to represent the best of its type are to be a very good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present design and the statement of the control of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4
	4pts 3pts 2pts 1pt Hat ratin This stat 7pts 6pts 5pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification outst development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no ppears to have recovered from parappears to be in the process of references. The modifications have occurred one, and/or the modifications are one and assign score. This quested that is in comparison to other expected in the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present design and the statement of the control of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	4
	4pts 3pts 2pts 1pt Hat ratiin This stat 7pts 6pts 5pts 4pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification outst development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re MODERATELY GOOD. Wetland FAIR. Wetland appears to be disturbances, successional state.	There are no modifications or no ppears to have recovered from parappears to be in the process of references. The modifications have occurred one, and/or the modifications are one and assign score. This quested that is in comparison to other expected in the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sin he range in quality typical of the region or class. ts type or class but is lacking in characters but because of past or present december of its type or class. type or class but because of past or past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	4

4c. Habitat alteration. This question evaluates the "intactness" the natural habitat of the type of wetland that is being evaluated. This question does not discriminate between wetlands with different types of habitat. Check all possible alterations that are observed. All available information, field visits, aerial photos, maps, etc. can be used to identify a possible alteration. Evaluate whether the alteration is trivial in relation to the wetlands overall habitat. Select the most appropriate score that best describes the present state of the wetland. It is appropriate to "double check" and average scores. In some instances, the scores can be viewed as a habitat alteration continuum, from very high to very low or no disturbance. The Rater may check one or several of these possible disturbances, yet still determine that the natural habitat is intact.							
С	heck all th	at are observed pres	ent in or near the wetlar	nd			,
						7	
			sheep, pigs, etc.)	$\top \overline{\Box}$	Sedimentation	• • •	
		Clear cutting			Dredging		-
	\boxtimes	Selective cutting			Farming		-
		Woody debris re	moval		Nutrient enrichment, e.g. nu	isance algae	-
		Toxic pollutants			Other (specify)		-
		Shrub/sapling re	moval		Other (specify)		-
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"? YES Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance. NO Assign a score of 9 since there are no or no apparent modifications. "recovered" and as score of 7.5			t" and				
				3			
Salac	t one or de	uubla chack adioining i	number and average the s			1	score
Selec	t one or do	ouble check adjoining i	number and average the s				score 3
	ots NON	OR NONE APPAREN	T. There are no alterations	or no a	lterations that are apparent to the Ra	iter.	3
9p 6p	ots NON	OVERED. The wetland	T. There are no alterations appears to have recovered	or no a	ast alterations.	ater.	3
9r 6r 3r	ots NON ots REC	E OR NONE APPAREND OVERED. The wetland over the control of the wetland of the wetland over the control of the wetland over the control of the wetland over the	T. There are no alterations appears to have recovered appears to be in the proces	or no a from pass of re	ast alterations.		3 □ □ □
9r 6r 3r	ots NON ots RECO ots RECO	E OR NONE APPAREND OVERED. The wetland of the wetland of the wetland over	T. There are no alterations appears to have recovered appears to be in the proces	or no a from pass of recurred,	ast alterations. covering from past alterations/ recently occurred, and/or the wetlan		3
9p 6p 3p	ots NON tots RECG tots RECG recov	E OR NONE APPAREN' DVERED. The wetland a DVERING. The wetland ENT OR NO RECOVER' ered from past alteration al wetland communities to Narrative Rating for g	T. There are no alterations appears to have recovered appears to be in the proces. Y. The alterations/ have oc as/, and/or the alterations/ a	or no a from pa ss of re ccurred, are ongo	ast alterations. covering from past alterations/ recently occurred, and/or the wetlan	d has not ture described.	3 □ □ □
9p 6p 3p	ots NON RECO Ipt RECO recov c 5. Specia Refer	E OR NONE APPARENT DVERED. The wetland a DVERING. The wetland ENT OR NO RECOVER' ered from past alteration at wetland communities to Narrative Rating for grable.	T. There are no alterations appears to have recovered appears to be in the proces. Y. The alterations/ have oc as/, and/or the alterations/ a	or no a from pa ss of re ccurred, are ongo	ast alterations. covering from past alterations/ recently occurred, and/or the wetlan bing. r deduct points if wetland has the fea	d has not ture described. ategories are	3
9p 6p 3p	ots NON ots RECO tots RECO recov c 5. Specia Refer applic	E OR NONE APPARENT DVERED. The wetland of the wetland of the wetland of the wetland of the wetland of the wetland of the wetland communities of the wetland	T. There are no alterations appears to have recovered appears to be in the proces. Y. The alterations/ have oc as/, and/or the alterations/ a	or no a from pass of recurred, are ongo	recently occurred, and/or the wetlanding. reduct points if wetland has the feathers than 10 points even if multiple of	d has not ture described. ategories are	3
9p 6p 3p	ots NON ots RECO ots RECO ots RECO c 5. Specia Refer applic Bog (10) Fen (10)	E OR NONE APPARENT DVERED. The wetland of the wetland of the wetland of the wetland of the wetland of the wetland of the wetland communities of the wetland	T. There are no alterations appears to have recovered appears to be in the proces. Y. The alterations/ have oc as/, and/or the alterations/ a	or no a from pass of recurred, are ongo	r deduct points if wetland has the fearnore than 10 points even if multiple of Lake plains sand prairies (Oa	d has not ture described. ategories are k Openings) (10 p	3
9p 6p 3p 1	ots NON ots RECO ots RECO ots RECO recov c 5. Specia Refer applic Bog (10) Fen (10) Old Gro	E OR NONE APPARENT DVERED. The wetland of DVERING. The wetland of DVERING. The wetland of DVERING. The wetland of the properties of the pr	T. There are no alterations appears to have recovered appears to be in the procesty. The alterations/ have ocns/, and/or the alterations/ as. Maximum 10 points. A suidance. No wetland can recovered	or no a from pass of recurred, are ongo	ast alterations. covering from past alterations/ recently occurred, and/or the wetlanding. r deduct points if wetland has the feather than 10 points even if multiple of the Lake plains sand prairies (Oa Relict wet prairies (10 pts)	d has not ture described. ategories are k Openings) (10 p	3 □ □
9p 6p 3p 1	ots NON ots RECo ots RECo ots RECo ots Refer applic Bog (10) Fen (10) Old Gro Mature I	E OR NONE APPARENT DVERED. The wetland of the properties of the pr	T. There are no alterations appears to have recovered appears to be in the procesty. The alterations/ have ocisis/, and/or the alterations/ as. Maximum 10 points. A buildance. No wetland can respect to the process.	or no a from pass of recurred, are ongo	recently occurred, and/or the wetlanding. rededuct points if wetland has the feather than 10 points even if multiple of Relict wet prairies (10 pts) Known occurrence of threater	d has not ture described. ategories are k Openings) (10 p	3
9p 6p 3p 1	ots NON ots RECO ots RECO ots RECO c 5. Specia Refer applica Bog (10) Fen (10) Old Groo Mature I Coastal	E OR NONE APPARENT DVERED. The wetland of DVERING. The wetland of DVERING. The wetland of DVERING. The wetland of DVERING. The wetland of Recovery of the wetland communities to Narrative Rating for grable. Dots) pts) with Forest (10 pts) Forested Wetland (5 pts)	T. There are no alterations appears to have recovered appears to be in the proces. Y. The alterations/ have ocns/, and/or the alterations/ a. s. Maximum 10 points. A buildance. No wetland can result to the process. Outs	or no a from pass of recurred, are ongo	recently occurred, and/or the wetlanding. rededuct points if wetland has the feather than 10 points even if multiple of Relict wet prairies (10 pts) Known occurrence of threater Significant migratory songbire	d has not ture described. ategories are k Openings) (10 p	3

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	2
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

38

6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.			
5pts	HIGH. Wetland has a high degree of interspersion		
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion		
3pts	MODERATE. Wetland has a moderate degree of interspersion		
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	\boxtimes	
1pt	LOW. Wetland has a low degree of interspersion		
0pts	NONE. Wetland has no plan view interspersion		

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	-1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate		
various microtopographic habitat features often present in wetlands.	0	
Vegetated hummocks and tussocks.		
Coarse woody debris >15cm (6in) diameter		
Standing dead trees >25cm (10in) diameter at breast height		
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction		

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

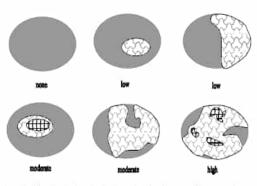


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

39 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🗵 NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	1	
	Metric 3: Hydrology	18	
	Metric 4: Habitat	9	
	Metric 5: Special Wetland Communities	0	
	Metric 6: Plant communities, interspersion, microtopography	3	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	32	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation			
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7,			Is quantitative rating score less than the Category 2 scoring threshold (excluding 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			
8a, 9d, 10.	Wetland is categorized as a Category 3 wetland		functional assessments to determine if the wetland has been over-categorized by the ORAM			
Did you answer "Yes" to any of the following questions:	☐ YES	⊠ 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			
Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status		Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.			
Did you answer "Yes" to	☐ YES	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland			
Narrative Rating No. 5	Wetland is categorized as a Category 1 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 undercategorized by the ORAM			
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	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. 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 an quantitative score.			
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.			
Final Category						

Choose One	☐ Category 1		☐ Category 3

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating	Dete: 2/27/2024
Site: I	Lancaster	r - WL-50-PEM Rater(s): NSB	Date: 3/27/2024
1	1	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
1	2	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 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new falle HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
18	20	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	lake and other human use (1pts) pland (e.g. forest), complex (1pts) r upland corridor (1pts) turation. Score one or dbl check. ently inundated/saturated (4pts) te/saturated (3pts) lated (2pts) ated in upper 30cm (12in) (1pts) Point source (non-storm water) Filing/grading Road bed/RR track Dredging
9	29	Metric 4. Habitat Alteration and Development.	Other .
Max 20pts.	Subtotal 29	4a. Substrate disturbance. Score one or double-check and average. □ None or none apparent (4pts) □ Recovered (3pts) □ Recovered (2pts) □ Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. □ Excellent (7pts) □ Very good (6pts) □ Good (5pts) □ Moderately good (4pts) □ Fair (3pts) □ Poor to fair (2pts) □ Poor (pts) 4c. Habitat alteration. Score one or double-check and average. □ None or none apparent (9pts) □ Recovered (6pts) □ Recovered (6pts) □ Recent or no recovery (1pts) □ Selective cutting □ Woody debris removal	Sedimentation Dredging
	Subtotal th	☐ Toxic pollutants ☐	Nutrient enrichment

Site:	Lancaster	- WL-50-	PEM	Rater(s):	NSB		Date:	3/27/2024
	29 Subtotal first pa	ge	·	·		·		
0	29	Metric	5. Specia	l wetlands	S.			
Max 10pts	Subtotal	Check all tha	t apply and score as Bog (10pts) Fen (10pts) Old growth forest (' Mature forested we Lake Erie coastal/t Lake Plain Sand Pr Relict Wet Prairies Known occurrence Significant migrator Category 1 Wetland	10pts) ttland (5 pts) ributary wetland-un ributary wetland-res rairies (Oak Openin (10pts) state/federal threat y songbird/water fo	stricted hydro ngs) (10pts) tened or enda owl habitat or	logy (5pts) angered species (10pts) usage (10pts)		
3	32	Metric	6. Plant c	ommuniti	es, inte	erspersion, micro top	ograph	y
Max 20 pts.	Subtotal		land Vegetation Com		Vegetatio	n Community Cover Scale		
			re all present using 0	to 3 scale.	0	Absent or comprises <0.1ha (0.2471 ac Present and either comprises small par		
			quatic Bed mergent		'	of moderate quality, or comprises a si		•
			hrub		2	Present and either comprises significan		
			orest			of moderate quality or comprises a sn		
			ludflats)pen Water		3	Present and comprises significant part, and is of high quality	or more of wet	land's vegetation
		0	other	<u></u>				
		6b. Horiz	zontal (plan view) Int	erspersion	Narrative	Description of Vegetation Quality		
		_ Sele	ect only one. ligh (5pts)	,	low	Low spp diversity and/or predominance Tolerant native species	of nonnative of	r disturbance
		□ M □ M	loderately high (4pts loderate (3pts) loderately low (2pts) ow (1pts))	mod	Native spp are dominant component of and/or disturbance tolerant native spp diversity moderate to moderately high rare threatened or endangered spp	can also be p	resent, and species
		□ N	lone (0pts)		high	A predominance of native species, with tolerant native spp absent or virtually		
			erage of invasive pla			often, but not always, the presence of	rare, threaten	ed, or endangered spp
			e 1 ORAM long form or deduct points for		Mudflat ar	nd Open Water Class Quality		
			xtensive >75% cove	•	0	Absent <0.1ha (0.247 acres)		
			loderate 25-75% cov	· · /	1	Low 0.1 to <1ha (0.247 to 2.47)		
			parse 5-25% cover (,	2	Moderate 1 to <4ha (2.47 to 9.88 acres)	
			learly absent >5% co	ver (0pts)	3	High 4ha (9.88 acres) or more		
		⊠ A	bsent (1pts)		Micro tono	ography Cover Scale		
		6d. Micro	o topography		0	Absent		
			re all present using 0	to 3 scale.	1	Present very small amounts or if more of	common of ma	rginal quality
			egetated hummocks		2	Present in moderate amounts, but not o	of highest quali	ty or
			coarse woody debris tanding dead >25cm		3	In small amounts of highest quality Present in moderate or greater amounts	s and of highes	t quality
			mphibian breeding p					
			01					

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	1
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20
0.1	4,356	484	66	22	0.04	400	

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a	buf 100 use	erage Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate fer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 0m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced ture, etc.		0
	7pts	WIDE. >50m (164ft) or more around perimeter		
	4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter		
	1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter		
	0pts	VERY NARROW. <10m (<32ft) around perimeter.	\boxtimes	
2b		ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).		1
	7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.		
	5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.		
	3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.		
	1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.	\boxtimes	

2

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 4 5pts High pH groundwater (7.5-9.0) Other groundwater \boxtimes 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 0 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

8

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e.	Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.
	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, i asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

Check all that are observed present in or near the wetland							
		ditch(es), in or near the we	etland		point source discharges to	the (non-storm	water)
		tile(s), in or near the wetla	nd		filing/grading activities in or near the wetland		
		dike(s), in or near the wetle	and		road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetle	and		dredging activities in or ne	ar the wetland	
		storm water inputs (addition	on of water)		other (specify)		
the cau mo we reo far hyd	Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"? YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.		ther	gn a score of 12 since e are no or no apparent ifications.	NOT SURE Double check none apparen "recovered" at score of 9.5	it" and	
Sel	ect on	e or double check adjoining n	number and average the score.				score
1	12pts	NONE OR NONE APPARENT	Γ. There are no modifications or n	o modi	fications that are apparent to the	Rater.	
	7pts	RECOVERED. The wetland a	appears to have recovered from pa	ast mod	lifications.		
	3pts	RECOVERING. The wetland	appears to be in the process of re	coverin	g from past modifications		
	1pt		 The modifications have occurre ions, and/or the modifications are 			d has not	

20

M	range of other factors and acti to hydrology. This metric atter items checked as possible hyd disruptions in its development	ent and maintenance of specific ty vities which affect wetland quality a mpts to evaluate these things unde forlogic disturbances in Question 3 (succession state). In other instan c 4. In any case, the Rater should of	Thile hydrology may be the single of pes of wetlands and wetland process and cause disturbances to wetlands to the rubric "habitat alteration." In mare will be instead alterations to a wetled to a disturbance may be appropriacarefully consider what is the actual	ses, there is a that are unrelated any instances, and's habitat or ately considered		
4	the soil and surface substrates of descriptive but not controlling. In solucations on a disturbance continu	the wetland. Note also that the lab- some instances, it may be more ap- um, from very high to very low or n ance include filling and grading, plo	ge. This question evaluates physica els on the scoring categories are inte propriate to consider the scoring cate o disturbance. wing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-		
	Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"?	Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	NO Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" "recovered" and score of 3.5	and	
	naturar :		4			
s	Select one or double check adjoining	number and average the score.	4		score 4	
s	Select one or double check adjoining		o modifications that are apparent to	the Rater.		
s	Select one or double check adjoining 4pts NONE OR NONE APPAREN		o modifications that are apparent to	the Rater.	4	
s	Select one or double check adjoining 4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland	T. There are no modifications or n	o modifications that are apparent to tast modifications.	the Rater.	4	
s	Select one or double check adjoining 4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER	T. There are no modifications or no appears to have recovered from part appears to be in the process of re-	o modifications that are apparent to a st modifications. covering from past modifications and, recently occurred, and/or the wetle		4 ⊠ □	
s 	Select one or double check adjoining 4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER	T. There are no modifications or no appears to have recovered from pall appears to be in the process of reverse Y. The modifications have occurre	o modifications that are apparent to a st modifications. covering from past modifications and, recently occurred, and/or the wetle		4 ⊠ □ □	
	Apts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica	T. There are no modifications or no appears to have recovered from pall appears to be in the process of reference. Y. The modifications have occurred tions, and/or the modifications are set on the process of the process of reference. You one and assign score. This quest/etland is in comparison to other economics.	o modifications that are apparent to a st modifications. covering from past modifications and, recently occurred, and/or the wetle	and has not rall qualitative milar wetlands.	4 ⊠ □ □	
	Apts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state.	T. There are no modifications or no appears to have recovered from pall appears to be in the process of reference. Y. The modifications have occurred tions, and/or the modifications are set on the process of the process of reference. You one and assign score. This quest/etland is in comparison to other economics.	o modifications that are apparent to dast modifications. covering from past modifications and, recently occurred, and/or the wetlengoing. etion asks the Rater to assign an overeloogically or hydrogeomorphically since range in quality typical of the region	and has not rall qualitative milar wetlands.	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe	T. There are no modifications or no appears to have recovered from partial appears to be in the process of reference of the process of reference of the modifications have occurred tions, and/or the modifications are expected of the modifications are not only one and assign score. This quested the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of type	o modifications that are apparent to dast modifications. covering from past modifications and, recently occurred, and/or the wetlengoing. etion asks the Rater to assign an overeloogically or hydrogeomorphically since range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifical 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe would make it excellent.	T. There are no modifications or no appears to have recovered from partial appears to be in the process of ref. Y. The modifications have occurred tions, and/or the modifications are selected as a sign score. This quester was a sign score of the types of wetlands and the ars to represent the best of its type ears to be a very good example of its type or class.	o modifications that are apparent to a st modifications. covering from past modifications and, recently occurred, and/or the wetlengoing. stion asks the Rater to assign an overcologically or hydrogeomorphically since range in quality typical of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifical b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe would make it excellent. 5pts GOOD. Wetland appears to successional state, or other re	T. There are no modifications or no appears to have recovered from partial appears to be in the process of ref. Y. The modifications have occurred tions, and/or the modifications are selected as a sign score. This quester was a sign score of the types of wetlands and the ars to represent the best of its type ears to be a very good example of its type or class.	o modifications that are apparent to a st modifications. covering from past modifications and, recently occurred, and/or the wetlengoing. Stion asks the Rater to assign an oversologically or hydrogeomorphically since range in quality typical of the region or class. Its type or class but is lacking in characters assign to present described to the control of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifical b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe would make it excellent. 5pts GOOD. Wetland appears to successional state, or other r 4pts MODERATELY GOOD. Wet	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from partial appears to the modifications are overland is in comparison to other expense of the types of wetlands and the partial appears to be a very good example of its type or class and appears to be a fair to good example appears to be a fair to good example of its a moderately good example of its a moderately good example of its appears to be a moderately good example of its appears to be a fair to good example of its a moderately good example of its	o modifications that are apparent to a st modifications. covering from past modifications and, recently occurred, and/or the wetlengoing. Stion asks the Rater to assign an oversologically or hydrogeomorphically since range in quality typical of the region or class. Its type or class but is lacking in characters assign to present described to the control of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	4 	

1pt POOR. Wetland appears to <u>not</u> be a good example of its type or class because of past or present disturbances, successional state, etc.

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4c.	evaluat alteration possible appropri scores.	ed. Thons that e alterariate so In sol	nis question does not at are observed. All a ation. Evaluate wheth core that best describ me instances, the sco The Rater may chec	discriminate between wetla vailable information, field vister the alteration is trivial in es the present state of the vores can be viewed as a hab	nds wit sits, ae relatior vetland oitat alte	ral habitat of the type of wetland that is h different types of habitat. Check all prial photos, maps, etc. can be used to n to the wetlands overall habitat. Select It is appropriate to "double check" are ration continuum, from very high to we le disturbances, yet still determine to	possible identify a ct the most nd average ery low or no	
С	heck al	I that	are observed pres	ent in or near the wetlan	d			
			Mowing			Herbaceous layer/aquatic bed	l removal	
			Grazing (cattle, s	heep, pigs, etc.)		Sedimentation		
			Clear cutting			Dredging		
			Selective cutting			Farming		
			Woody debris rer	noval		Nutrient enrichment, e.g. nuis	ance algae	
			Toxic pollutants			Other (specify)		
			Shrub/sapling rer	noval		Other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		YES Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance.		NO Assign a score of 9 since there are no or no apparent modifications.	no or no apparent none apparent" a			
Selec	t one or	doub	le check adjoining r	number and average the so	core.			score 1
9p	ts N	ONE O	R NONE APPARENT	T. There are no alterations	or no al	terations that are apparent to the Rate	er.	
6р	ts RE	COVE	ERED. The wetland a	appears to have recovered f	rom pa	st alterations.	ations.	
3р	ts RE	COVE	RING. The wetland	appears to be in the proces	s of red	covering from past alterations/		
1				 The alterations/ have occ s/, and/or the alterations/ ar 		recently occurred, and/or the wetland ling.	has not	
Metric	Metric 5. Special wetland communities. Maximum 10 points. Assign or deduct points if wetland has the feature described. Refer to Narrative Rating for guidance. No wetland can receive more than 10 points even if multiple categories are applicable.							
	Bog (10pts)			Lake plains sand prairies (Oak	Openings) (10 p	ots)
	Fen (10 pts	5)			Relict wet prairies (10 pts)		
	Old G	irowth	Forest (10 pts)			Known occurrence of threatene	ed/endangered s	species (10pts)
	Matur	e For	ested Wetland (5 p	ots)		Significant migratory songbird/v	waterfowl habita	t (10 pts)
	Coast	tal we	tlands, unrestricted	hydrology (10 pts)		Category 1 wetlands (See Narr	ative Rating #5)	(-10 pts)
	Coast	tal we	tlands, restricted h	ydrology (5 pts)				

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Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	1
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	1
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)		
1	Low 0.1 to <1ha (0.247 to 2.47 acres)		
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)		
3	High 4ha (9.88 acres) or more		

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	rizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as ne looking down upon it. See Figure 1.	1
5pts	HIGH. Wetland has a high degree of interspersion	
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion	
3pts	MODERATE. Wetland has a moderate degree of interspersion	
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	
1pt	LOW. Wetland has a low degree of interspersion	⊠
0pts	NONE. Wetland has no plan view interspersion	

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate	
various microtopographic habitat features often present in wetlands.	0
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

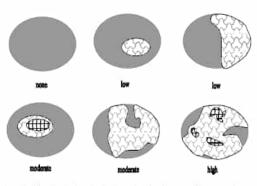


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

32 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES ⊠ NO	If yes, Category 3.
	Question 7: Fens	☐ YES ⊠ NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	3	
	Metric 3: Hydrology	15	
	Metric 4: Habitat	11	
	Metric 5: Special Wetland Communities	-9	
	Metric 6: Plant communities, interspersion, microtopography	11	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	33	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation		
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	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding 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	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 (including 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 undercategorized by the ORAM		
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	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. 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 an quantitative score.		
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.		
Final Category Choose One ⊠ Category 1 □ Category 2 □ Category 3					

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating	Deta: 2/27/2	1
Site: \	vest Lan	caster - WL-41-PEM Rater(s): E. Holt	Date: 3/27/24	4
2	2	Metric 1. Wetland Area (size).		
max 6 pts.	subtotal	Select one size class and assign score.		
2	4	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 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) □ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) □ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallo □ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)		
9	13	Metric 3. Hydrology.		
Max 30 pts.	subtotal	□ Precipitation (1pts) □ Part of wetland/up □ Seasonal/Intermittent surface water (3pts) □ Part of riparian or under the part	n (1pts) ke and other human use (1 land (e.g. forest), complex (upland corridor (1pts) irration. Score one or dbl ch tty inundated/saturated (4ps/saturated (3pts)	(1pts) neck. ots)
		☐ Recovered (7pts) ☐ Ditch ☐ ☑ Recovering (3pts) ☑ Tile ☐	Point source (non-storm wa Filing/grading Road bed/RR track Dredging Other	ater)
8	21	Metric 4. Habitat Alteration and Development.		
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts)		
		4c. Habitat alteration. Score one or double-check and average. □ None or none apparent (9pts) Check all disturbances observed □ Recovered (6pts) ☑ Mowing ☑	Shrub/sapling removal	
	21 Subtotal th	Recovering (3pts) Recent or no recovery (1pts) Grazing Clear-cutting Selective cutting Woody debris removal Toxic pollutants	Snrub/saping removal Herbaceous/aquatic bed Sedimentation Dredging Farming Nutrient enrichment	removal

Site:	West Land	caster - WL-41-PEM Rater(s):	E. Holt	Date: 3/27/24
		•		·
	21			
	Subtotal first pa			
	Subtotal first pa	age		
40				
-10	11	Metric 5. Special wetland	c	
		Welland	J.	
Max 10pts	Subtotal	Check all that apply and score as indicated		
		Bog (10pts)		
		Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 pts)		
		Mature forested wetland (5 pts)		
		☐ Lake Erie coastal/tributary wetland-ur ☐ Lake Erie coastal tributary wetland-re		
		Lake Plain Sand Prairies (Oak Openi		ology (opts)
		Relict Wet Prairies (10pts)		
		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
7	18			
•		Metric 6. Plant communiti	ies, int	erspersion, micro topography
Max 20 pts.	Subtotal			
wax 20 pts.	Subiolai	6a. Wetland Vegetation Communities Score all present using 0 to 3 scale.	Vegetatio	on Community Cover Scale Absent or comprises <0.1ha (0.2471 acres) contiguous area
		0 Aquatic Bed	1	Present and either comprises small part of wetland's vegetation and is
		3 Emergent		of moderate quality, or comprises a significant part put is of low quality
		1 Shrub	2	Present and either comprises significant part of wetland's vegetation and is
		0 Forest Mudflats	3	of moderate quality or comprises a small part and is of high quality Present and comprises significant part, or more of wetland's vegetation
		0 Open Water		and is of high quality
		Other		
		6b. Horizontal (plan view) Interspersion	Narrative	Description of Vegetation Quality
		Select only one.	low	Low spp diversity and/or predominance of nonnative or disturbance
		☐ High (5pts)		Tolerant native species
		Moderately high (4pts)	mod	Native spp are dominant component of the vegetation, although nonnative
		✓ Moderate (3pts)✓ Moderately low (2pts)		and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of
		Low (1pts)		rare threatened or endangered spp
		☐ None (0pts)	high	A predominance of native species, with nonnative spp and/or disturbance
		6c. Coverage of invasive plants. Refer to		tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Table 1 ORAM long form for list.		,,
		Add or deduct points for coverage		nd Open Water Class Quality
		Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)
		Moderate 25-75% cover (-3pts)Sparse 5-25% cover (-1)		Low 0.1 to <1ha (0.247 to 2.47) Moderate 1 to <4ha (2.47 to 9.88 acres)
		☐ Nearly absent >5% cover (0pts)	3	High 4ha (9.88 acres) or more
		Absent (1pts)		, , , , ,
		, ,	Micro top	ography Cover Scale
		6d. Micro topography	0	Absent
		Score all present using 0 to 3 scale. O Vegetated hummocks/tussocks		Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or
		1 Coarse woody debris >15cn (6in)	۷	In small amounts of highest quality
		0 Standing dead >25cm (10in) dbh	3	Present in moderate or greater amounts and of highest quality
		0 Amphibian breeding pools		

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

but 100 use	erage Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate ffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 0m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land as are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced sture, etc.	0	
7pts	WIDE. >50m (164ft) or more around perimeter		
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter		
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter		
0pts	VERY NARROW. <10m (<32ft) around perimeter.		
	ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).	1	
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.		
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.		
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.		
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.		

3

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

7

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e. Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.

It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

_	Check all that are observed present in or near the wetland						
		ditch(es), in or near the wetland			point source discharges to	the (non-storm	water)
Ī	\boxtimes	tile(s), in or near the wetland			filing/grading activities in or near the wetland		nd
		dike(s), in or near the wetle	and		road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetle	and		dredging activities in or ne	ar the wetland	
		storm water inputs (addition	n of water)		other (specify)		
the ca mo we req far hy	ircle one answer. Have any of e disturbances identified above aused or appear to have caused ore than trivial alterations to the etland's natural hydrologic gime, or have they occurred so r in the past that current drology should be considered to e "natural"? YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.		there	gn a score of 12 since e are no or no apparent ifications.	NOT SURE Double check none apparen "recovered" at score of 9.5	t" and	
Select one or double check adjoining number and average the score.					score 7		
	12pts	NONE OR NONE APPARENT	. There are no modifications or no	o modit	fications that are apparent to the	Rater.	
	7pts	RECOVERED. The wetland a	ppears to have recovered from pa	st mod	lifications.		\boxtimes
	3pts	RECOVERING. The wetland	appears to be in the process of red	coverin	g from past modifications		
	1pt		 The modifications have occurred ons, and/or the modifications are of 			d has not	

15

		range of other factors and activ to hydrology. This metric attern items checked as possible hydr disruptions in its development (ities which affect wetland quality a pts to evaluate these things under ologic disturbances in Question 3 succession state). In other instar 4. In any case, the Rater should	rpes of wetlands and wetland proces and cause disturbances to wetlands are the rubric "habitat alteration." In m see will be instead alterations to a wetlaces, a disturbance may be appropria carefully consider what is the actual	that are unrelated any instances, land's habitat or ately considered		
4	the des loca Exa roa	soil and surface substrates of the scriptive but not controlling. In stations on a disturbance continuum amples of substrate/soil disturbated vehicles, construction vehicles	ne wetland. Note also that the lab ome instances, it may be more ap im, from very high to very low or r nce include filling and grading, plo	age. This question evaluates physical sels on the scoring categories are intropropriate to consider the scoring cathologist disturbance. Dowing, grazing (hooves), vehicle use other mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-		
	or s	soils.	I		ı	3.5	Г
	Circle	one answer. Have any	YES 🗆	NO 🗆	NOT SURE	\boxtimes	
	cause cause alterat natura have t past th	or substrate disturbances d or appear to have d more than trivial tions to the wetland's al soils or substrates, or they occurred so far in the nat current conditions d be considered to be al"?	Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	Double check "r none apparent" "recovered" and score of 3.5	and	
Г				<u> </u>	l		L
s	elect on	e or double check adjoining n	number and average the score.			score 3	
S	Select on 4pts			no modifications that are apparent to	the Rater.		
S		NONE OR NONE APPARENT			the Rater.	3	
S	4pts	NONE OR NONE APPARENT RECOVERED. The wetland a	There are no modifications or n	ast modifications.	the Rater.	3	
S	4pts 3pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY	There are no modifications or no appears to have recovered from parappears to be in the process of re	ast modifications. covering from past modifications ed, recently occurred, and/or the wet		3 □	
	4pts 3pts 2pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY	There are no modifications or no appears to have recovered from parappears to be in the process of references.	ast modifications. covering from past modifications ed, recently occurred, and/or the wet		3 \\ \Box\text{\Box}	
	4pts 3pts 2pts 1pt	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser	There are no modifications or nappears to have recovered from parappears to be in the process of reference ones, and/or the modifications are one and assign score. This questand is in comparison to other ed	ast modifications. covering from past modifications ed, recently occurred, and/or the wet	land has not erall qualitative milar wetlands.	3 \\ \Box\text{\Box}	
	4pts 3pts 2pts 1pt	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te.	There are no modifications or nappears to have recovered from parappears to be in the process of reference ones, and/or the modifications are one and assign score. This questand is in comparison to other ed	ast modifications. ecovering from past modifications ed, recently occurred, and/or the wet ongoing. stion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the regio	land has not erall qualitative milar wetlands.	3 \\ \Box\text{\Box}	
	4pts 3pts 2pts 1pt b. Hal ratii This stal	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te. EXCELLENT. Wetland appear	There are no modifications or nappears to have recovered from participations to be in the process of red. The modifications have occurred in the modifications are one and assign score. This questions are of the types of wetlands and the types of wetlands and the types of the types of its types.	ast modifications. ecovering from past modifications ed, recently occurred, and/or the wet ongoing. stion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the regio	land has not erall qualitative milar wetlands. on, watershed, or	3 🗆	
	4pts 3pts 2pts 1pt b. Hall ratii This stal	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we so question presumes a good ser te. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent.	There are no modifications or nappears to have recovered from papears to be in the process of real appears to the modifications are also and assign score. This quest the set of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types o	ast modifications. ecovering from past modifications ed, recently occurred, and/or the wet ongoing. stion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the regi-	erall qualitative milar wetlands. on, watershed, or	3 🗆	
	4pts 3pts 2pts 1pt b. Hal ratii Thi: stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or nappears to have recovered from papears to be in the process of real appears to the modifications are also and assign score. This quest the set of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types o	ast modifications. acovering from past modifications ad, recently occurred, and/or the wet ongoing. astion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the regi- a or class. ats type or class but is lacking in char lass but because of past or present of	erall qualitative milar wetlands. on, watershed, or	3	
	4pts 3pts 2pts 1pt b. Hall Thistat 7pts 6pts 5pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or nuppears to have recovered from parappears to be in the process of real papears to be a very good example of its type are to be a very good example of its type or classons, is not excellent.	ast modifications. acovering from past modifications ad, recently occurred, and/or the wet ongoing. astion asks the Rater to assign an ove cologically or hydrogeomorphically si he range in quality typical of the regi- a or class. ats type or class but is lacking in char lass but because of past or present of	erall qualitative milar wetlands. on, watershed, or eacteristics, which disturbances,	3	

POOR. Wetland appears to <u>not</u> be a good example of its type or class because of past or present disturbances, successional state, etc.

Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important

25.5

4c. Habitat alteration. This question evaluates the "intactness" the natural habitat of the type of wetland that is being evaluated. This question does not discriminate between wetlands with different types of habitat. Check all possible alterations that are observed. All available information, field visits, aerial photos, maps, etc. can be used to identify a possible alteration. Evaluate whether the alteration is trivial in relation to the wetlands overall habitat. Select the most appropriate score that best describes the present state of the wetland. It is appropriate to "double check" and average scores. In some instances, the scores can be viewed as a habitat alteration continuum, from very high to very low or no disturbance. The Rater may check one or several of these possible disturbances, yet still determine that the natural habitat is intact.						
С	heck all that are observed prese	ent in or near the wetlan	d			
				Herbaceous layer/aquatic bed	d removal]
	☐ Grazing (cattle, s	heep, pigs, etc.)		Sedimentation		1
				Dredging		1
	☐ Selective cutting			Farming		1
	☐ Woody debris rer	noval		Nutrient enrichment, e.g. nuis	ance algae	1
	☐ Toxic pollutants			Other (specify)	-	1
	☐ Shrub/sapling rer	noval		Other (specify)		1
the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic Assign a score 1, 3 or 6, or an intermediate score, depending on degree of wetland's natural hydrologic Assign a score of 9 since there are no or no apparent modifications. Double none again frequency frequency for the properties of the				NOT SURE Double check none apparent "recovered" an score of 7.5	" and	
Calas	t ana an daubla abaak adiainina n					score
Selec	t one or double check adjoining n	umber and average the so	core.			score 3
Select 9p				Iterations that are apparent to the Rate	er.	
	ots NONE OR NONE APPARENT	. There are no alterations	or no a		er.	3
9p 6p 3p	note NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland	There are no alterations of the process to be in the process	or no a rom pa	st alterations.		3 □ □ □
9p 6p 3p	note NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland	There are no alterations of appears to have recovered for appears to be in the process. The alterations/ have occ.	or no a from pa	st alterations. covering from past alterations/ recently occurred, and/or the wetland		3
9p 6p 3p	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past alteration c. 5. Special wetland communities	There are no alterations of ppears to have recovered for appears to be in the process. The alterations/ have occss/, and/or the alterations/ are. Maximum 10 points. As	or no a from pa s of rec curred, re ongo	st alterations. covering from past alterations/ recently occurred, and/or the wetland	has not	3 □ □ □
9p 6p 3p	notes NONE OR NONE APPARENT obstates RECOVERED. The wetland a obstates RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past alteration c. 5. Special wetland communities Refer to Narrative Rating for gu	There are no alterations of ppears to have recovered for appears to be in the process. The alterations/ have occss/, and/or the alterations/ are. Maximum 10 points. As	or no a from pa s of rec curred, re ongo	st alterations. covering from past alterations/ recently occurred, and/or the wetland ing. deduct points if wetland has the featu	has not ire described. iegories are	3
9p 6p 3p	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past alteration c. 5. Special wetland communities Refer to Narrative Rating for gu applicable.	There are no alterations of ppears to have recovered for appears to be in the process. The alterations/ have occss/, and/or the alterations/ are. Maximum 10 points. As	or no a from pa s of rec curred, re ongo	st alterations. covering from past alterations/ recently occurred, and/or the wetland ing. deduct points if wetland has the featunere than 10 points even if multiple cat	has not ire described. iegories are	3
9p 6p 3p	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past alteration c. 5. Special wetland communities Refer to Narrative Rating for gu applicable. Bog (10pts)	There are no alterations of ppears to have recovered for appears to be in the process. The alterations/ have occss/, and/or the alterations/ are. Maximum 10 points. As	or no a from pass of recurred, re ongo	st alterations. covering from past alterations/ recently occurred, and/or the wetland ing. deduct points if wetland has the feature from the feature or the feature or the feature of the	has not are described. tegories are Openings) (10 po	3
9p 6p 3p 1	notes NONE OR NONE APPARENT obstates RECOVERED. The wetland a obstate RECOVERING. The wetland obtained by the recovered from Past alteration obstates to Special wetland communities Refer to Narrative Rating for guapplicable. Bog (10pts) Fen (10 pts)	There are no alterations of ppears to have recovered for appears to be in the process. The alterations/ have occ ss/, and/or the alterations/ are. Maximum 10 points. As idence. No wetland can recovered.	or no a from parts of recurred, re ongo	st alterations. covering from past alterations/ recently occurred, and/or the wetland ing. deduct points if wetland has the feature from than 10 points even if multiple cate. Lake plains sand prairies (Oak Relict wet prairies (10 pts)	has not are described. degories are Openings) (10 pred/endangered specifications)	3
9p 6p 3p 1	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past alteration c. 5. Special wetland communities Refer to Narrative Rating for gu applicable. Bog (10pts) Fen (10 pts) Old Growth Forest (10 pts)	There are no alterations of ppears to have recovered frappears to be in the process. The alterations/ have occs/, and/or the alterations/ are. Maximum 10 points. As ididance. No wetland can re	or no a from particular soft recurred, re ongo	st alterations. covering from past alterations/ recently occurred, and/or the wetland ing. deduct points if wetland has the feature than 10 points even if multiple call Lake plains sand prairies (Oak Relict wet prairies (10 pts) Known occurrence of threatene	has not are described. legories are Openings) (10 prod/endangered specified)	3
9p 6p 3p 1 Metric	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland of RECENT OR NO RECOVERY recovered from past alteration c. 5. Special wetland communities Refer to Narrative Rating for gu applicable. Bog (10pts) Fen (10 pts) Old Growth Forest (10 pts) Mature Forested Wetland (5 p	There are no alterations of ppears to have recovered frappears to be in the process. The alterations/ have occss/, and/or the alterations/ are independent of the process. Maximum 10 points. As idance. No wetland can residence. No wetland can residence.	or no a from particular soft recongressign of ceive in	st alterations. covering from past alterations/ recently occurred, and/or the wetland ing. deduct points if wetland has the feature from the feature than 10 points even if multiple call take plains sand prairies (Oak Relict wet prairies (10 pts) Known occurrence of threatene Significant migratory songbird/	has not are described. legories are Openings) (10 prod/endangered specified)	3

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	4
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	1
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	0

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

32.5

	rizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as le looking down upon it. See Figure 1.		2
5pts	HIGH. Wetland has a high degree of interspersion		
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion		
3pts	MODERATE. Wetland has a moderate degree of interspersion		
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	\boxtimes	
1pt	LOW. Wetland has a low degree of interspersion		
0pts	NONE. Wetland has no plan view interspersion		

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	1
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	⊠
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

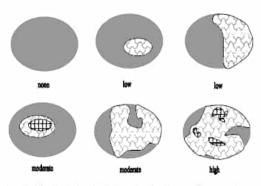


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

34.5 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered 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
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 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.
	Quest 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	9	
	Metric 3: Hydrology	13	
	Metric 4: Habitat	15	
	Metric 5: Special Wetland Communities	0	
	Metric 6: Plant communities, interspersion, microtopography	1	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	40	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7,	☐ YES Wetland is categorized	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding 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
8a, 9d, 10.	as a Category 3 wetland		functional assessments to determine if the wetland has been over-categorized by the ORAM
Did you answer "Yes" to any of the following questions:	☐ YES	⊠ 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
Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status		Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to	☐ YES	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland
Narrative Rating No. 5	Wetland is categorized as a Category 1 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 undercategorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	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. 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 an quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	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 moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not 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?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	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 hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.
	1	Final Ca	ategory

Choose One	☐ Category 1		☐ Category 3

End of Ohio Rapid Assessment Method for Wetlands

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		uantitative Rating · (WL-18S-PEM) Rater(s): NSB	Date: 3/28/2024
Site.	Lancaster	(WE-100-FEIM) Nater(5). NOD	Date. 3/20/2024
2	2	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
9	11	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 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) □ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) □ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallo □ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
13	24	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	n (1pts) ake and other human use (1pts) land (e.g. forest), complex (1pts) upland corridor (1pts) uration. Score one or dbl check. ntly inundated/saturated (4pts) e/saturated (3pts)
		Recovering (3pts)	Filing/grading Road bed/RR track Dredging Other
15	39	Metric 4. Habitat Alteration and Development.	
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts)	
		4c. Habitat alteration. Score one or double-check and average. ☐ None or none apparent (9pts) ☐ Recovered (6pts) ☐ Recovering (3pts) ☐ Grazing ☐ Grazing	Shrub/sapling removal Herbaceous/aquatic bed removal
	39 Subtotal th	Recent or no recovery (1pts) Recent or no recovery (1pts) Selective cutting Woody debris removal Toxic pollutants	Sedimentation Dredging Farming Nutrient enrichment

Site:	Lancaster	(WL-18S-PEM)	Rater(s): I	NSB		Date:	3/28/2024
	39 Subtotal first pa	ge					
0	39	Metric 5. Specia	l wetlands	S.			
Max 10pts	Subtotal	Check all that apply and score as Bog (10pts) Fen (10pts) Old growth forest (1 Mature forested we Lake Erie coastal/tr Lake Erie coastal tr Lake Plain Sand Pr Relict Wet Prairies Known occurrence Significant migrator Category 1 Wetland	10pts) tland (5 pts) ibutary wetland-unr ibutary wetland-res airies (Oak Openini (10pts) state/federal threat y songbird/water fo	tricted hydro gs) (10pts) ened or enda wl habitat or	logy (5pts) angered species (10pts) usage (10pts)		
1	40	Metric 6. Plant c	ommunitie	es, inte	erspersion, micro top	ograph	y
Max 20 pts.	Subtotal	6a. Wetland Vegetation Com			n Community Cover Scale		
		Score all present using 0	to 3 scale.	2	Absent or comprises <0.1ha (0.2471 a Present and either comprises small pa of moderate quality, or comprises a s Present and either comprises significat of moderate quality or comprises a s Present and comprises significant part and is of high quality	rt of wetland's significant part nt part of wetla mall part and is	vegetation and is put is of low quality nd's vegetation and is s of high quality
		6b. Horizontal (plan view) Into	erspersion	Narrative	Description of Vegetation Quality		
		_ Select only one.	,	low	Low spp diversity and/or predominance	e of nonnative	or disturbance
		☐ High (5pts) ☐ Moderately high (4pts) ☐ Moderate (3pts) ☑ Moderately low (2pts) ☐ Low (1pts))	mod	Tolerant native species Native spp are dominant component of and/or disturbance tolerant native sp diversity moderate to moderately high rare threatened or endangered spp	p can also be p	present, and species
		☐ None (0pts) 6c. Coverage of invasive plan		high	A predominance of native species, with tolerant native spp absent or virtually often, but not always, the presence of	absent, and h	igh spp diversity and
		Table 1 ORAM long form Add or deduct points for o		Mudflat ar	nd Open Water Class Quality		
		Extensive >75% cover	•	0	Absent <0.1ha (0.247 acres)		
		Moderate 25-75% cov	er (-3pts)	1	Low 0.1 to <1ha (0.247 to 2.47)		
		Sparse 5-25% cover (-	,	2	Moderate 1 to <4ha (2.47 to 9.88 acres	s)	
		☐ Nearly absent >5% co☐ Absent (1pts)	ver (upts)	3	High 4ha (9.88 acres) or more		
		☐ Absent (Tpts)		Micro topo	graphy Cover Scale		
		6d. Micro topography		0	Absent		
		Score all present using 0		1	Present very small amounts or if more		
		0 Vegetated hummocks/ 1 Coarse woody debris		2	Present in moderate amounts, but not In small amounts of highest quality	oi nignest qual	ity of
		0 Standing dead >25cm	, ,	3	Present in moderate or greater amount	ts and of highe	st quality
		Amphibian breeding prescription	ools				

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.						
7pts	WIDE. >50m (164ft) or more around perimeter					
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter	\boxtimes				
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter					
0pts	VERY NARROW. <10m (<32ft) around perimeter.					
	tensity of predominant surround land use(s). Select one, or double check up to two and average score, for the tensity of the predominant land use(s) outside the wetland's buffer zone (if any).		5			
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.					
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.	\boxtimes				
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.					
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.					

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Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 3 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is \boxtimes in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. \boxtimes Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

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 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

Subtotal from previous page

3e. Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.

It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

Chec	Check all that are observed present in or near the wetland					
	ditch(es), in or near the wetland			point source discharges to	the (non-storm	water)
	tile(s), in or near the wetlan	nd		filing/grading activities in or near the wetland		nd
	dike(s), in or near the wetle	and	\boxtimes	road beds/RR beds in or n	road beds/RR beds in or near the wetland	
	weir(s), in or near the wetle	and		dredging activities in or near the wetland		
	storm water inputs (addition	n of water)		other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"? YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.		there	gn a score of 12 since e are no or no apparent ifications.	NOT SURE Double check none apparen "recovered" at score of 9.5	t" and	
Select one or double check adjoining number and average the score.				score 7		
12pts NONE OR NONE APPARENT. There are no modifications or no modifications that are apparent to the Rater.			Rater.			
7pts	RECOVERED. The wetland a	appears to have recovered from pa	st mod	lifications.		\boxtimes
3pts	RECOVERING. The wetland	appears to be in the process of red	coverin	g from past modifications		
1pt	1pt RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.					

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N	range of other factors and ac to hydrology. This metric atte items checked as possible hy disruptions in its developmen	ment and maintenance of specific ty tivities which affect wetland quality a empts to evaluate these things unde drologic disturbances in Question 3 t (succession state). In other instan ic 4. In any case, the Rater should	Thile hydrology may be the single pes of wetlands and wetland proces and cause disturbances to wetlands r the rubric "habitat alteration." In m e will be instead alterations to a wetlaces, a disturbance may be appropria carefully consider what is the actual	ses, there is a that are unrelated any instances, and's habitat or ately considered		
4	the soil and surface substrates of descriptive but not controlling. In locations on a disturbance contin Examples of substrate/soil disturb	the wetland. Note also that the lab- some instances, it may be more ap uum, from very high to very low or n pance include filling and grading, plo	ge. This question evaluates physically on the scoring categories are interpropriate to consider the scoring cate of disturbance. Swing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-		
	Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"?	YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	NO Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" a "recovered" and score of 3.5	and	
_						_
S	L Select one or double check adjoining	number and average the score.	1		score 3	
s		-	o modifications that are apparent to	the Rater.		
s	4pts NONE OR NONE APPAREI	-		the Rater.	3	
S	4pts NONE OR NONE APPAREI 3pts RECOVERED. The wetland	NT. There are no modifications or n	ast modifications.	the Rater.	3	
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	4pts NONE OR NONE APPAREI 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER 1recovered from past modific 4b. Habitat development. Select or 1rating of how well developed the	NT. There are no modifications or not appears to have recovered from part of appears to be in the process of react. The modifications have occurred ations, and/or the modifications are also one and assign score. This questive wetland is in comparison to other extensions.	ast modifications. covering from past modifications d, recently occurred, and/or the wetle	and has not rall qualitative milar wetlands.	3	
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1pt POOR. Wetland appears to <u>not</u> be a good example of its type or class because of past or present disturbances, successional state, etc.

30

Subtotal from previous page

4c.	evalua alterat possib approp scores disturb	ated. Ti ions that le alter oriate se s. In so	nis question does not at are observed. All a ation. Evaluate wheth core that best describ me instances, the sco The Rater may chec	discriminate between wetla vailable information, field viner the alteration is trivial in es the present state of the pres can be viewed as a hal	ands wi isits, ad relatio wetland bitat al	ith eria on to d. Itera	I habitat of the type of wetland that is different types of habitat. Check all pal photos, maps, etc. can be used to on the wetlands overall habitat. Select it is appropriate to "double check" an ation continuum, from very high to verdisturbances, yet still determine to	possible identify a et the most ad average ery low or no	
С	heck a	all that	are observed pres	ent in or near the wetlar	nd				
		П	Mowing				Herbaceous layer/aquatic bed	removal	
			Grazing (cattle, s	heep, pigs, etc.)	$\dagger \Box$		Sedimentation		
		$\overline{\Box}$	Clear cutting	17107	$+ \overline{\Box}$		Dredging		
			Selective cutting		$\dagger \Box$		Farming		
		$\overline{\Box}$	Woody debris rer	moval	+ =		Nutrient enrichment, e.g. nuisa	ance algae	
		$\overline{\Box}$	Toxic pollutants		$\dagger \overline{\Box}$		Other (specify)		
		$\overline{\Box}$	Shrub/sapling rer	moval	$\dagger \overline{\Box}$		Other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"? YES Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance. NO Assign a score of 9 since there are no or no apparent modifications. For an intermediate score, depending on degree of recovery from the disturbance. X NO Assign a score of 9 since there are no or no apparent modifications. YES Assign a score of 9 since there are no or no apparent modifications. YES Assign a score of 9 since there are no or no apparent modifications. YES Assign a score of 9 since there are no or no apparent modifications. YES Assign a score of 9 since there are no or no apparent modifications.			t" and						
Selec	t one o	r doub	le check adjoining r	number and average the s	core.				score 9
9p	ots N	IONE C	R NONE APPARENT	Γ. There are no alterations	or no a	alte	erations that are apparent to the Rate	r.	
6p	ts F	RECOVI	ERED. The wetland a	appears to have recovered	from p	ast	alterations.		
3pts RECOVERING. The wetland appears to be in the process of recovering from past alterations/									
1				Y. The alterations/ have oc s/, and/or the alterations/ a			cently occurred, and/or the wetland hg.	nas not	
Metric 5. Special wetland communities. Maximum 10 points. Assign or deduct points if wetland has the feature described. Refer to Narrative Rating for guidance. No wetland can receive more than 10 points even if multiple categories are applicable.									
	☐ Bog (10pts) ☐ Lake plains sand prairies (Oak Openings) (10 pts)				ots)				
	Fen	(10 pts	s)				Relict wet prairies (10 pts)		
	Old (Growth	Forest (10 pts)				Known occurrence of threatene	d/endangered s	pecies (10pts)
	Matu	ıre For	ested Wetland (5 p	ots)		\top	Significant migratory songbird/v	vaterfowl habita	t (10 pts)
	Coas	stal we	tlands, unrestricted	d hydrology (10 pts)			Category 1 wetlands (See Narra	ative Rating #5)	(-10 pts)
	Coas	stal we	tlands, restricted h	ydrology (5 pts)		T			

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Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	1
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	1
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

40

Subtotal from previous page

	6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.			
5pts	HIGH. Wetland has a high degree of interspersion			
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion			
3pts	MODERATE. Wetland has a moderate degree of interspersion			
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	⊠		
1pt	LOW. Wetland has a low degree of interspersion			
0pts	NONE. Wetland has no plan view interspersion			

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	-3
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	1
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

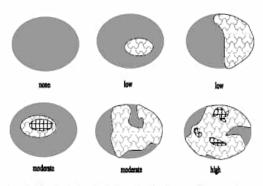


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

40 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

Appendix E

QHEI and HHEI Forms



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

46

NGTH OF STREAM REACH (ft) 200 LAT. 39.8913.0 LONG. 22.56970 RIVER CODE RIVER MILE 1.14 TE 03/27/24 SCORER Nathan Barry COMMENTS COMMENTS COMMENTS COMMENTS RECOVERING RIVER CODE RIVER CODE RIVER MILE 1.14 OTHER OBJECT OF THE COMMENTS COMMENTS RECOVERING RIVER CODE RECOVERING RECOVERY RECOVER		ST-31-PER RIVER BASIN DRAINAGE AREA (mi²)	.37
TRE MOST PROBLEM I Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Phw Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Phw Streams" for Instruction of Complete All Items On This Form - Refer to "Field Evaluation Phw Streams" for Instruction of Complete All Items On This Field Evaluation of C			
OTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction REAM CHANNEL	TE 03/27/24 SCOPER Nath		ii ii
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BLDR SLABS (16 pts)	(Max of 32). Add total number of si	ignificant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	H
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BEUROUS (15 pt) COBBLE (65-256 mm) [12 pts) 0%			13.5
COBBLE (65-256 mm) (12 pts)	BEDROCK [16 pt]	0% FINE DETRITUS [3 pts]	Subs
SAND (<2 mm) [6 pts] 5%	COBBLE (65-256 mm) [12 pts]	out of this or the page of the	Wax
SAND (<2 mm) (6 pts)		moon to proj	6
Bidr Slabs, Boulder, Cobble, Bedrock ORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 3 Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] COMMENTS BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 13') [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream: RIPARIAN WIDTH Conservation Tillage This information per Bank) RIPARIAN WIDTH FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream: RIPARIAN WIDTH RIPARIA	SAND (<2 mm) [6 pts]	ARTIFICIAL [3 pts]	
Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):			A+
Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] > 25 cm -10 cm [15 pts] NO WATER OR MOIST CHANNEL [0 pts]		30K	1
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22.5 - 30 cm [30 pts]			Max
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13") [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13") [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream to the completed shows the completed sho	> 22.5 - 30 cm [30 pts]	< 5 cm [5 pts]	
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m -4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream's RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) Urban or Industrial Field Urban or Industrial Field Open Pasture, Row Crop Moderate 5-10m Residential, Park, New Field Open Pasture, Row Crop None Residential, Park, New Field Open Pasture, Row Crop None Fenced Pasture Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS: SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.	> 10 - 22.5 cm [25 pts]	NO WATER OR MOIST CHANNEL [0 pts]	20
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH L R (Per Bank) Wide > 10m Mature Forest, Wetland Moderate 5-10m Residential, Park, New Field Open Pasture, Row Crop None COMMENTS: FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS: SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 1.5 3.0 Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 1.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	COMMENTS	MAXIMUM POOL DEPTH (centimeters): 45	-
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH LR (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Mature Forest, Wetland Moderate 5-10m Residential, Park, New Field Viran or Industrial Viran or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) Vice ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3			_
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Wide >10m	> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pt	AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed	
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COMMENTS : SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None	> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed OODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY LR (Most Predominant per Bank) LR Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Urban or Industrial Field Open Pasture, Row Cn Residential, Park, New Field Open Pasture, Row Cn Fenced Pasture Mining or Construction	20
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□ 0.5 □ 1.5 □ 2.5 □ >3	> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS.	AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed OODPLAIN QUALITY	20 op
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STREAM GRADIENT ESTIMATE	> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOT RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m V Narrow <5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS SINUOSITY (Number of be None	This information must also be completed OODPLAIN QUALITY	20 op

QHEI PERFORMED? - Yes ✓	No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED US	E(S)
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MA	APS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
SGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
ounty: Fairfield	Township / City: Baltimore
MISCELLANEOUS	
ase Flow Conditions? (Y/N): Y Date	of last precipitation: 03/26/24 Quantity: 0.30
hotograph Information;	
levated Turbidity? (Y/N): Y Car	nopy (% open): 100%
/ere samples collected for water chemistry?	(Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A
	olved Oxygen (mg/l)pH (S.U.) Conductivity (µmhos/cm)
the sampling reach representative of the st	ream (Y/N) Y If not, please explain:
dditional comments/description of pollution i	impacts:
BIOTIC EVALUATION Performed 2 (V/N): N (IF Yes Recorr	d all observations. Voucher collections ontional. NOTE: all voucher samples must be labeled with the
erformed? (Y/N): N (If Yes, Record ID number. In which ish Observed? (Y/N) N Voucher? (Y/N)	clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)
erformed? (Y/N): N (If Yes, Record ID number. In In ID number. In In ID number. In ID	clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Including	clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. In: ish Observed? (Y/N) N Voucher? (Y/N) rogs or Tadpoles Observed? (Y/N) N Vo	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
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Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 40

ST-25-PER		Scorers Full N	ame & Affili	ation.	Comp	anies - Nat	han Barnet
River Code:	STORET #:	Lat./	Long.: 39 .	87185	/82 .	57663	Office ver
DECT TVDEC	OTHER TYPE OTHER TYPE HARDPAN [4] DETRITUS [3] 40 SILT [2] 25 ARTIFICIAL (Score patura	ES POOL RIFFLE 1 20 31 60 30 [0]	ORIGI LIMESTON TILLS [1] WETLAND HARDPAN SANDSTO	Check ONE (N IE [1] S [0] [0] NE [0] RINE [0]	SILT	average) QUAL HEAVY [MODERA NORMAI FREE [1] SIMODERA NORMAI	-2] ATE [-1] Sul L [0] I IVE [-2] ATE [-1] Ma
2] INSTREAM COVER Indic quality; 3-Highest quality in mode diameter log that is stable, well described by the control of the c	ity; 2-Moderate amounts, but erate or greater amounts (e.g. eveloped rootwad in deep / for 0 POOLS > 1	not of highest quality very large bould ast water, or deep, 70cm [2] 0	ility or in small a ers in deep or fa	mounts of his st water, larg nctional pool KWATERS [ROPHYTES	ghest (s. [1]	Check ONE (C EXTENSIVE MODERATE SPARSE 5-4 NEARLY AE	or 2 & average >75% [11] 25-75% [7]
3] CHANNEL MORPHOLO SINUOSITY DEVELOR HIGH [4]	PMENT CHANNEL ENT [7] NONE [6] TO RECOVERED RECOVERIN	IZATION [4]	STABILI HIGH [3] MODERA LOW [1]	ATE [2]			Channel
☐ ☐ NONE / LITTLE [3] ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	RIPARIAN ZONE Check RIPARIAN WIDTH WIDE > 50m [4] MODERATE 10-50m [3] NARROW 5-10m [2] VERY NARROW < 5m [1]	FLO FOREST, S SHRUB OF	OD PLAIN O WAMP [3] R OLD FIELD [2 IAL, PARK, NEV ASTURE [1]	QUALITY [] [V FIELD [1] [B C	ONSERVATION RBAN OR INI	DUSTRIAL [0 STRUCTION [
Comments	2			.0. [0]	0001 100		Maximum 10
□ > 1m [6] □ PO □ 0.7-<1m [4] □ PO	FLE / RUN QUALITY CHANNEL WIDTH Check ONE (Or 2 & average) IOL WIDTH > RIFFLE WIDTH IOL WIDTH = RIFFLE WIDTH IOL WIDTH < RIFFLE WIDTH	[2] ☐ TORREN [1] ☐ VERY FA [0] ☒ FAST [1] ☒ MODERA	□ IN1	oply OW [1] ERSTITIAL ERMITTEN DIES [1]		Primary Secondar (circle one and c	Pool / Current Maximum
Indicate for functional of riffle-obligate special RIFFLE DEPTH ☐ BEST AREAS > 10cm [2] ☐ I	RUN DEPTH RI MAXIMUM > 50cm [2] ST MAXIMUM < 50cm [1] MO	ck ONE (Or 2 & av FFLE / RUN S ABLE (e.g., Cobb	erage). UBSTRATE ile, Boulder) [2] , Large Gravel)	RIFFLE	/ RUN	ION NO I EMBEDD DNE [2] DW [1] DDERATE [0] TENSIVE [-1]	Riffle /
6] GRADIENT (39 ft/mi DRAINAGE AREA (1.2 mi²	☐ MODERATE [6-10]		%POOL:	$\overline{}$	SLIDE:		Gradient Maximum

AJ SAMPLED REACH Check ALL that apply	2011 (0.10) (4.10) (4.10) (4.10)	a reach typical of steams, recreation	m Observed - Interred, Other	r/Sampling observations, Concerns, Acc	cess directions, etc.
METHOD STAGE					
BOAT 1st -sample pass- 2nd -					
WADE HIGH -					
L.LINE UP - OTHER NORMAL _					
DLOW D					
DISTANCE DRY					
□ 0.5 Km □ 0.2 Km CLARITY	B] AESTHETICS	D] MAINTENANCE	Circle some & COMMENT	EJ ISSUES	F] MEASUREMENT
- Istsample pass 2nd	☐ NUISANCE ALGAE	PUBLIC PRIVATE DOTH / NA		WWTP / CSO / NPDES / INDUSTRY	x width
□ 0.15 Km □ < 20 cm □ 0.12 Km □ 20-<40 cm □	☐ INVASIVE MACROPHYTES	ACTIVE CHISTORIC DOTH / NA		HARDENED / URBAN / DIRT&GRIME	x depth
☑ OTHER ☐ 40-70 cm ☐	☑ EXCESS TURBIDITY	YOUNG-SUCCESSION-OLD		CONTAMINATED / LANDFILL	max. depth
40 □ > 70 cm/ CTB □	☐ DISCOLORATION ☐ FOAM / SCUM	SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA		BMPs-CONSTRUCTION SEDIMENT LOGGING / IRRIGATION / COOLING	x bankfull width
meters SECCHI DEPTH	OIL SHEEN	LEVEED / ONE SIDED		BANK / EROSION DURFACE	bankfull x depth
CANOPY 1stcm	☐ TRASH / LITTER	RELOCATED / CUTOFFS	<	FALSE BANK/MANURE / LAGOON	W/D ratio
X > 85%- OPEN 88	779 TF 424 TF 427 TF 42	MOVING-BEDLOAD-STABLE		WASH H20 / TILE / H20 TABLE	bankfull max. depth
☐ 55%-<85% 2ndcm	SLUDGE DEPOSITS	ARMOURED / SLUMPS		ACID / MINE / QUARRY / FLOW	floodprone x ² width
□ 30%-<55%	CSOs/SSOs/OUTFALLS	ISLANDS / SCOURED IMPOUNDED / DESICCATED		PARK / GOLE LAWN DOME	entrench. ratio
☐ 10%-<30%	ATION AREA DEPTH POOL: >100ft2 >3ft	FLOOD CONTROL DRAINAGE	>	ATMOSPHERE / DATA PAUCITY	Legacy Tree:
en an en andre a				AN	
			cocil a heal 1	o An	
	cail had by C		residential tu	of J	
	residential test	/ / h	residential fu erbaceons riparia	of Involet	
	fesidential test shouldnee riparian	37.38			
5	riparian	Culvert (Pool)		oper inte	
	riparian Flan	Culvert Pool pool		Woodel	
	riparian Flan	Culvert Pool Pool Pool he	Flow	oper inte	
	riparian	Culvert Pool Pool Pool he	Flow D	oper inte	

OhioEPA

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 33

Stream & Location:	V. Lancaster - S. Baltim	nore - W. Millersp	ort	RM:	Date: 3	3/ 27/ 24
ST-15-PER		Scorers	Full Name & Affiliation:	V3 Com	panies - Natha	an Barnett
River Code:	STORET	#:	Lat./ Long.: 39 . 8541	5 /82.	58457	Office verified location
BEST TYPES P BLDR /SLABS [10] _ BOULDER [9] _ GOBBLE [8] _ GRAVEL [7] _ SAND [6] _ BEDROCK [5]	00L RIFFLE	R TYPES POOL I	ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0]	SILT	QUALIT QUALIT HEAVY [-2] MODERATE NORMAL [0] FREE [1] EXTENSIVE MODERATE NORMAL [0] NONE [1]	[-1] Substra
quality: 3-Highest quality in	quality; 2-Moderate amo moderate or greater amo well developed rootwad in [1] PC GETATION [1] RC	unts, but not of high unts (e.g., very large deep / fast water, o	mall amounts or if more common test quality or in small amounts are boulders in deep or fast water, or deep, well-defined, functional ONBOWS, BACKWATE AQUATIC MACROPHYTO LOGS OR WOODY DEE	of highest large pools. [RS [1] [res [1] [Check ONE (Or 2 EXTENSIVE >7 MODERATE 25 SPARSE 5-<25 NEARLY ABSE	2 & average) 75% [11] 5-75% [7] 5% [3]
☐ HIGH [4] ☐ EX ☐ MODERATE [3] ☐ GC ☑ LOW [2] ☑ FA	CELLENT [7] NON DOD [5] REC IR [3] REC	ANNELIZATION	STABILITY HIGH [3] MODERATE [2] LOW [1]			hannel
A] BANK EROSION A. River right looking downstream R EROSION NONE / LITTLE [3] MODERATE [2] HEAVY / SEVERE [1] Comments		DTH	ch category for EACH BANK (Or FLOOD PLAIN QUALIT REST, SWAMP [3] RUB OR OLD FIELD [2] SIDENTIAL, PARK, NEW FIELD NCED PASTURE [1] EN PASTURE, ROWCROP [0]	Indicate	CONSERVATION URBAN OR INDU MINING / CONSTR predominant land Om riparlan. R.	STRIAL [0] RUCTION [0]
□ 0.7-<1m [4]	CHANNEL W Check ONE (Or 2 & POOL WIDTH > RIFFLE POOL WIDTH < RIFFLE	IDTH average) E WIDTH [2]	CURRENT VELOCITY Check ALL that apply DRRENTIAL [-1] SLOW [1] ERY FAST [1] INTERSTIT AST [1] INTERMITT ODERATE [1] EDDIES [1] Indicate for reach - pools and rife	TENT [-2]		ontact Contact
Indicate for function of riffle-obligate seriffle-obligate seriffl	pecies: RUN DEPTH ☐ MAXIMUM > 50cm [☑ MAXIMUM < 50cm [Check ONE (O. RIFFLE / F. 2] STABLE (e.g. 1] MOD. STABL		LE / RUI	tion NO RIF N EMBEDDED ONE [2] OW [1] ODERATE [0] XTENSIVE [-1] ME	FLE [metric=0]
6] GRADIENT	ampled reach ft/mi) VERY LOW -	I OW [2.4]	%POOL: (30)	%GLIDE		8
DRAINAGE AREA	MODERATE	[6-10]	=	%GLIDE %RIFFLE	=	aximum

AJ SAMPLED REACH Check ALL that apply	mment RE: Reach consistency/	s reach typical of steam?, Recreation	/Observed - Inferred, Other	r/Sampling observations, Concerns, Acc	ess directions, etc.
METHOD STAGE					
BOAT 1st -sample pass- 2nd —					
WADE HIGH -					
OTHER NORMAL .					
DISTANCE DOW DOWN					
O E Vm	D1 4 D0 W 10 W00	D7.1-111.7-7-1-11.0-7	and the second second	P1 1001 - P0	M. F
D 0.2 Km CLARITY	B] AESTHETICS	D] MAINTENANCE	Circle some & COMMENT	EJ ISSUES	F) MEASUREMENTS
U.15 Km 🖾 - 20 om	NUISANCE ALGAE	PUBLIC PRIVATE BOTH / NA		WWTP / CSO / NPDES / INDUSTRY	x width
□ 0.12 Km □ 20-<40 cm □	☐ INVASIVE MACROPHYTES ☑ EXCESS TURBIDITY	ACTIVE HISTORIC BOTH / NA YOUNG-SUCCESSION-OLD		HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL	x depth
IXI OTHER THE T	☐ DISCOLORATION	SPRAY / SNAG / REMOVED		BMPS-CONSTRUCTION SEDIMENT	max. depth
	FOAM / SCUM	MODIFIED / DIPPED OUT / NA		LOGGING / IRRIGATION / COOLING	x bankfull width
	OIL SHEEN	LEVEED / ONE SIDED	1	BANK / EROSION DURFACE	bankfull x depth
	☐ TRASH / LITTER	RELOCATED / CUTOFFS		FALSE BANK / MANURE / LAGOON	W/D ratio
		MOVING-BEDLOAD-STABLE		WASH H ₂ 0 / TILE / H ₂ 0 TABLE	bankfull max, depth
55%-<85% 2ndcm	SLUDGE DEPOSITS	ARMOURED / SLUMPS		ACID / MINE / QUARRY / FLOW	floodprone x ² width
☐ 30%-<55%	☐ CSOs/SSOs/OUTFALLS	SLANDS / SCOURED		NATURAL / WETLAND / STAGNANT	entrench. ratio
☐ 10%-<30% C] RECREA	TION AREA DEPTH	IMPOUNDED / DESICCATED		PARK / GOLF / LAWN / HOME	Legacy Tree:
□ <10%- CLOSED	OOL: >100ft2 >3ft	FLOOD CONTROL DRAINAGE	>	ATMOSPHERE / DATA PAUCITY	
lg ja	tiparian H	eroded bank Flow eroded bank eroded bank in herbaceou	TANKET CO	riparian wooded riparian	
		TIPOLINA			
		A- /1			
		Ag Land			
		in herbactous riparier Ag Land			

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Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	59

	ster - S. Baltimore - W. Mill	lersport	RM:	Date: 3 28 24
Walnut Creek	Score	ers Full Name & Affiliation:_	V3 Companies	
River Code:	_STORET #:	Lat./Long.: 39 . 7020		Office verified location
BEST TYPES POOL RIFF	e every type present LE OTHER TYPES PO HARDPAN [4] —	ORIGIN LIMESTONE [1] X TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0]	SILT MN F GODEON GO	QUALITY EAVY [-2] ODERATE [-1] Substrat ORMAL [0] REE [1] XTENSIVE [-2] ODERATE [-1] ORMAL [0] ONE [1]
2] INSTREAM COVER Indicate programmers quality; 2 quality; 3-Highest quality in moderate diameter log that is stable, well develor undercut banks [1] 0 OVERHANGING VEGETATION 0 SHALLOWS (IN SLOW WATER ROOTMATS [1] Comments	-Moderate amounts, but not of or greater amounts (e.g., very pped rootwad in deep / fast wa 2 POOLS > 70cm [1] 0 ROOTWADS [1]	f highest quality or in small amounts of large boulders in deep or fast water, ter, or deep, well-defined, functional part of the comment of	of highest large Check c	AMOUNT ONE (Or 2 & average) ENSIVE >75% [11] DERATE 25-75% [7] RSE 5-<25% [3] RLY ABSENT <5% [1] Cover Maximum 20
3] CHANNEL MORPHOLOGY SINUOSITY DEVELOPME HIGH [4]	NT CHANNELIZAT	FION STABILITY HIGH [3] MODERATE [2] LOW [1]		Channel 14
EROSION WII	PARIAN WIDTH DE > 50m [4]	FLOOD PLAIN QUALIT FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD	TY CONSE	RVATION TILLAGE [1] OR INDUSTRIAL [0] / CONSTRUCTION [0] minant land use(s)
Check ONE (ONLY!) Chec □ > 1m [6] □ POOL V □ 0.7-<1m [4] □ POOL V	HANNEL WIDTH k ONE (Or 2 & average) VIDTH > RIFFLE WIDTH [2] VIDTH = RIFFLE WIDTH [1] VIDTH < RIFFLE WIDTH [0]	CURRENT VELOCITY Check ALL that apply TORRENTIAL [-1] SLOW [1] VERY FAST [1] INTERSTIT FAST [1] INTERMITT MODERATE [1] EDDIES [1] Indicate for reach - pools and riff	Pr Sec (circle:	reation Potential imary Contact ondary Contact one and comment on back) Pool / Current Maximum 12
of riffle-obligate species:	Check ON RIFFLI	e large enough to support a E (Or 2 & average). E / RUN SUBSTRATE RIFF E (e.g., Cobble, Boulder) [2]		□NO RIFFLE [metric=0] BEDDEDNESS

A] SAMPLED REACH Check ALL that apply	Comment RE: Reach consistency/	Is reach typical of steam?, Recreation	n/ Observed - Inferred, Other	/Sampling observations, Concerns, Acc	cess directions, etc.
METHOD STAGE BOAT 1st-sample pass-2nd HIGH					
DISTANCE DRY DRY D.5 Km 0.2 Km 1stsample pass 2n 20 cm D.12 Km 20-<40 cm 40-70 cm 40-70 cm SECCHI DEPTH CANOPY 1st cn 55%-<85% 2nd cn 2nd	INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	Circle some & COMMENT	E] ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EOSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	F) MEASUREMENTS x width x depth max. depth x bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:

Stream Drawing:

woods from the field the field

ChioFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

1	51
	24

		R BASIN	DRAINAGE AREA (mi²)	0.53
DATE 03/27/24 SCORER E.Hol		LONG82.59313 RIVER	CODE RIVER MILE	100000 - 10000
NOTE: Complete All Items On This F	orm - Refer to "Field	Evaluation Manual for Oh	io's PHWH Streams" for Inst	ructions
STREAM CHANNEL NONE / MODIFICATIONS:	NATURAL CHANNEL	RECOVERED Z RECOV	ERING RECENT OR NO RE	COVERY
SUBSTRATE (Estimate percent of (Max of 32). Add total number of sign				HHE
TYPE BLDR SLABS [16 pts]	PERCENT TYPE	SILT [3 pt]	PERCENT	Metri Point
BOULDER (>256 mm) [16 pts]	0%	LEAF PACK/WOODY DE		Substra
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]	0%	FINE DETRITUS [3 pts] CLAY or HARDPAN [0 p		Max = 4
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts]	0%	MUCK [0 pts] ARTIFICIAL [3 pts]	0%	4
Total of Percentages of	0.00% (A)	100%	(B)	A+B
Bidr Slabs, Boulder, Cobble, Bedroo SCORE OF TWO MOST PREDOMINATE SI	The second of th	1	F SUBSTRATE TYPES: 1	
2. Maximum Pool Depth (Measure th				Pool De
evaluation. Avoid plunge pools from > 30 centimeters [20 pts]	road culverts or storm wa	> 5 cm - 10 cm [15 pts]	DOX):	Max = :
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]		< 5 cm [5 pts] NO WATER OR MOIST	CHANNEL [0 pts]	20
COMMENTS		1000 Lean 1	. DEPTH (centimeters):	
3. BANK FULL WIDTH (Measured as	the average of 3.4 mags		VLY one box):	Bankfu
	the average of 5-4 meas	> 1.0 m - 1.5 m (> 3' 3" -		Width
> 4.0 meters (> 13') [30 pts]		1 4 0 1 0 0 0 0 0 0		B82
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]		≤ 1.0 m (<=3' 3") [5 pts]		Max=3
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts])		(FULL WIDTH (meters):	30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	1		FULL WIDTH (meters):	30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	This inform	AVERAGE BANK		500
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH	This inform ODPLAIN QUALITY T FLOODPLAIN QU	ation must also be completed NOTE: River Left (L) and Rig	i ht (R) as looking downstream ம்	500
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr	ation must also be completed and NOTE: River Left (L) and Rig		500
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank)	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F	ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank)	int (R) as looking downstream☆	500
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field	ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank) Forest, Wetland	tht (R) as looking downstream ☆ L R Conservation Tillage	30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field	ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank) Forest, Wetland e Forest, Shrub or Old tial, Park, New Field	L R Conservation Tillage Urban or Industrial	30 rop
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field Residen	ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank) Forest, Wetland e Forest, Shrub or Old tial, Park, New Field	LR Conservation Tillage Urban or Industrial Open Pasture, Row C	30 rop
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field Residen Fenced	AVERAGE BANK ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank) Forest, Wetland e Forest, Shrub or Old tial, Park, New Field Pasture Y one box):	ht (R) as looking downstream A Conservation Tillage Urban or Industrial Open Pasture, Row C Mining or Construction	30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field Residen Fenced Evaluation) (Check ONL	AVERAGE BANK ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank) Forest, Wetland a Forest, Shrub or Old tial, Park, New Field Pasture Y one box): Moist Channel,	LR Conservation Tillage Urban or Industrial Open Pasture, Row C	30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS.	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field Residen Fenced Evaluation) (Check ONL pools (Interstitial)	AVERAGE BANK ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank) Forest, Wetland a Forest, Shrub or Old tial, Park, New Field Pasture Y one box): Moist Channel,	ht (R) as looking downstream A Conservation Tillage Urban or Industrial Open Pasture, Row C Mining or Construction solated pools, no flow (Intermitten water (Ephemeral)	30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS.	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field Residen Fenced Evaluation) (Check ONL pools (Interstitial)	ation must also be completed NOTE: River Left (L) and Rig ALITY edominant per Bank) forest, Wetland e Forest, Shrub or Old tial, Park, New Field Pasture Y one box): Moist Channel, i Dry channel, no	ht (R) as looking downstream A Conservation Tillage Urban or Industrial Open Pasture, Row C Mining or Construction solated pools, no flow (Intermitten water (Ephemeral)	30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH (Per Bank) Wide > 10m Moderate 5-10m Varrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS I SINUOSITY (Number of ben None	This inform ODPLAIN QUALITY FLOODPLAIN QU L R (Most Pr Mature F Immatur Field Residen Fenced Evaluation) (Check ONL pools (Interstitial) ds per 61 m (200 ft) of chall 1.0	ation must also be completed: NOTE: River Left (L) and Right ALITY edominant per Bank) Forest, Wetland e Forest, Shrub or Old tial, Park, New Field Pasture Y one box): Moist Channel, in Dry channel, no	th (R) as looking downstream Conservation Tillage Urban or Industrial Open Pasture, Row C Mining or Construction solated pools, no flow (Intermitten water (Ephemeral)	30

ADDITIONAL STREAM INFORMATION (This	Information Must Also be Completed):	
QHEI PERFORMED? - Yes	No QHEI Score (If Yes, Attach Complete	i QHEI Form)
DOWNSTREAM DESIGNATED US	E(S)	
WWH Name:	Distance fi	om Evaluated Stream
CWH Name: _	_ Distance fr	om Evaluated Stream
EWH Name:	Distance from	om Evaluated Stream
MAPPING: ATTACH COPIES OF MA JSGS Quadrangle Name: Baltimore	APS, INCLUDING THE ENTIRE WATERSHED AREA. CLE	
	NRCS Soil Map Page: 4	NRCS Soil Map Stream Order
County: Fairfield	Township / City: Baltimore	
MISCELLANEOUS		
ase Flow Conditions? (Y/N): Y Date	of last precipitation: 03/26/24 Quantity	:0.03
Photograph Information:		
Elevated Turbidity? (Y/N): N Car	nopy (% open): 100%	
Vere samples collected for water chemistry?	(Y/N): N (Note lab sample no. or id. and attach re-	sults) Lab Number:
		1
field Measures: Temp (°C) Disso	lved Oxygen (mg/l) pH (S.U.) Cond	ductivity (µmhos/cm)
s the sampling reach representative of the str	eam (Y/N) Y If not, please explain:	
	all observations. Voucher collections optional. NOTE: all volude appropriate field data sheets from the Primary Headwa	
Fish Observed? (Y/N) Voucher? (Y/N) Frogs or Tadpoles Observed? (Y/N) V	Salamanders Observed? (Y/N) Y Voucher ucher? (Y/N) Aquatic Macroinvertebrates Observed	17.7.7
Comments Regarding Biology:		
DRAWING AND NAPRAT	IVE DESCRIPTION OF STREAM REACH (TI	is must be completed).
	er features of interest for site evaluation and a narrative	
metude important fandinaries and other	is reactives of interest for site evaluation and a narrauve	• description of the sueam s location
	Flow ->	
	Flow ->	\sim
	As Freix	
FLOW →	→ → → →	
	Ag Field	
	79 1	



ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

SITE NUMBER ST-68-INT RIVER BASIN Walnut Creek DRAINAGE AREA (mi²) 0.38 LENGTH OF STREAM REACH (ft) 210 LAT. 39.82183 LONG. 82.59785 RIVER CODE EPH RIVER MILE N/A DATE 03/27/24 SCORER L. Vine COMMENTS NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY MODIFICATIONS: 1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE SILT [3 pt] PERCENT 30% PERC	SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport	
LENSTH OF STREAM REACH (m) 210 LAT 33.82183 LONG 92.59785 RIVER CODE EPH RIVER MILE N/A	SITE NUMBER ST-68-INT RIVER BASIN Walnut Creek DRAINAGE AREA (mi²)	.38
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL		
STREAM CHANNEL MODIFICATIONS: 1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & 8. BYPE BLDR SLABS [16 pts] BLDR SLABS [16 pts] BCDL DEFENCENT TYPE BLDR SLABS [16 pts] BCDL DEFENCENT TYPE BLDR SLABS [16 pts] BCDL DEFENCENT TYPE BLDR SLABS [16 pts] BCDL DEFENCENT TYPE BLDR SLABS [16 pts] BCDL DEFENCENT TYPE BLDR SLABS [16 pts] BCDL DEFENCENT TYPE SLAB PRACKWOODY DEBRIS [3 pts] DYS BLDR SLABS [16	DATE 03/27/24 SCORER L. Vine COMMENTS	
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONL Y two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & 8. In the final substrate types found (Max of 8). Final metric score is sum of boxes A & 8. In the final substrate types found (Max of 8). Final metric score is sum of boxes A & 8. In the final substrate types found (Max of 8). Final metric score is sum of boxes A & 8. In the final substrate types found (Max of 8). Final metric score is sum of boxes A & 8. In the final substrate types found (Max of 8). Final metric score is sum of boxes A & 8. In the final substrate types for the final	NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
Max of 32), Add total number of significant substrate types found (Max of 8), Final metric score is sum of boxes A & B. Metric		OVERY
BEDR SLABS [16 pts] 0%		HHE
BOULDER \$256 mm 16 pts 0% 0% 0% 0% 0% 0% 0%	TYPE PERCENT TYPE PERCENT	
BEDROCK [16.pt]		Conta
COBBLE (65-256 mm) 1/2 pts 40%	BEDROCK [16 pt] 0% FINE DETRITUS [3 pts] 0%	
SAND <2 mm [6] pts 20%	OCCUPATION OF THE PROPERTY OF	IVIAX - 4
Bidr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 4	Grove (2-04 min) [5 pts]	7
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 4 2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts]		A + B
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check OALY one box): 3	Bidi Siabs, Bodider, Cobbie, Bediock	
30 centimeters [20 pts] > 5 cm -10 cm [15 pts] > 22.5 - 30 cm [30 pts] > 10 pts > 5 cm [5 pts] > 22.5 - 30 cm [30 pts] > 10 pts 10 pts > 10 pts 10 pt		
NO WATER OR MOIST CHANNEL [0 pts] 30		Max = 30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): 3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): 3. 0 m - 4.0 m (> 9' 7" - 13") [25 pts] 3. 0 m - 4.0 m (> 9' 7" - 13") [25 pts] 3. 0 m - 4.0 m (> 9' 7" - 14") [20 pts] 4 VERAGE BANKFULL WIDTH (meters): COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY AVERAGE BANKFULL WIDTH (meters): RIPARIAN WIDTH FLOODPLAIN QUALITY Wide > 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 2.00 15 This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY Wide > 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 2.00 This information must also be completed RIPARIAN VIDTH FLOODPLAIN QUALITY Wide > 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 2.00 15 This information must also be completed RIPARIAN VIDTH FLOODPLAIN QUALITY Wide > 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 2.00 15 This information must also be completed RIPARIAN VIDTH (meters): 2.00 15 This information must also be completed RIPARIAN VIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 2.00 15 This information must also be completed RIPARIAN VIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 2.00 This information must also be completed RIPARIAN VIDTH (meters): 2.00 This information must also be completed RIPARIAN VIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 2.00 This information must also be completed RIPARIAN VIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 3.00 AVERAGE BANKFULL WIDTH (meters): 4	> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	00
BankFull WiDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4" 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY *NOTE: River Left (L) and Right (R) as looking downstream *\frac{1}{2} \text{RIPARIAN WIDTH} \text{FLOOPPLAIN QUALITY} \[\begin{array}{c ccccccccccccccccccccccccccccccccccc	> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7' - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ★ RIPARIAN WIDTH FLOODPLAIN QUALITY Wide > 10 m (<=3' 3") [4' 8") [15 pts] AVERAGE BANKFULL WIDTH (meters): 2.00 This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY Wide > 10 m (Most Predominant per Bank) Mature Forest, Wetland Moderate 5-10 m Mature Forest, Shrub or Old Immature Forest, Shrub or Old Immature Forest, Shrub or Old Wide > 10 m (Per Bank) Narrow < 5 m Residential, Park, New Field Penced Pasture Wining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 0.5 SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 0.5 STREAM GRADJENT ESTIMATE	COMMENTS MAXIMUM POOL DEPTH (centimeters): 20	
Narrow <5m		Bankful
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY		
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Narrow <5m Residential, Park, New Field Open Pasture, Row Crop None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) SINUOSITY (Number of bends per 61 m (200 ft) of channel) None 1.0 1.0 2.0 3.0 >3 STREAM GRADIENT ESTIMATE		
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RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN GRADIENT ESTIMATE RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN CREST RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN RIPARIAN RIPARIAN RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH RIPARIAN RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN WIDTH RIPARIAN RIPARIAN RIPARIAN WIDTH RIPARIAN RIP		
RIPARIAN WIDTH L R (Per Bank) Wide >10m Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Wetland Immature Forest, Wetland Immature Forest, New Field Open Pasture, Row Crop Mining or Construction Open Pasture, Row Crop Mining or Construction Open Pasture, Row Crop Mining or Construction Open Pasture, Row Crop Mining or Construction Open Pasture, Row Crop Mining		
L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Residential, Park, New Field Open Pasture, Row Crop None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) None 1.0 1.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3		
Moderate 5-10m		
Narrow <5m Residential, Park, New Field Open Pasture, Row Crop None Fenced Pasture Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 None 1.0 2.5 STREAM GRADIENT ESTIMATE	Immediate Forget Shrub or Old	
None	I II I Moderate 5-10m II II I Urban or industrial	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 0.5 STREAM GRADIENT ESTIMATE	Narrow <5m Residential, Park, New Field Open Pasture, Row Cr	ор
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 3.5 STREAM GRADIENT ESTIMATE		
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) None 1.0 2.0 3.0 2.5 STREAM GRADIENT ESTIMATE	COMMENTS	L
Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 3.5 STREAM GRADIENT ESTIMATE		
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 >3 STREAM GRADIENT ESTIMATE	Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral))
None 1.0 2.0 3.0 >3 STREAM GRADIENT ESTIMATE	-3 <u>-</u>	l=
STREAM GRADIENT ESTIMATE	SINIOSITY (Number of bonds per 61 m (200 ft) of shappel). (Check ON! Vene box):	
	☐ None ☐ 1.0 ☐ 2.0 ☐ 3.0	
	None 1.0 2.0 3.0 3.0 0.5 1.5 2.5	

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Complete	d QHEI Form)
	from Evaluated Stream 0.69
	om Evaluated Stream _
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLE	ARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page:	NRCS Soil Map Stream Order
County: Fairfield Township / City: Baltimore	
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24 Quantit	y: 0.03
Photograph Information:	
Elevated Turbidity? (Y/N): Y Canopy (% open): 100%	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. and attach re	sults) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Con	ductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:	
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): (If Yes, Record all observations. Voucher collections optional. NOTE: all \(\)	oucher samples must be labeled with the site
ID number. Include appropriate field data sheets from the Primary Headwa	
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed?	
Comments Regarding Biology:	N / / / / / / / / / / / / / / / / / / /
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (T	ain must be completed):
Include important landmarks and other features of interest for site evaluation and a narrative	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FLOW - WOODS	



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

SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport	
SITE NUMBER ST-63-INT RIVER BASIN Walnut Creek DRAINAGE AREA (mi²)	0.00
LENGTH OF STREAM REACH (ff) 153 LAT. 39.81450 LONG82.60525 RIVER CODE EPH RIVER MILE I	
DATE 03/27/24 SCORER L. Vine COMMENTS	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERE	OVERY
SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes	HHEI
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	Metri
BLDR SLABS [16 pts] 0% SILT [3 pt] 100%	Points
BOULDER (>256 mm) [16 pts]	Substrat
COBBLE (65-256 mm) [12 pts]	Max = 4
GRAVEL (2-64 mm) [9 pts] 0% MUCK [0 pts] 0%	7
SAND (<2 mm) [6 pts]	<u> </u>
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock (A) Substrate Percentage Check (B)	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 1	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	15
COMMENTS MAXIMUM POOL DEPTH (centimeters): 20	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width Max=30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	IVIAX-30
COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00	15
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{RIPARIAN WIDTH}	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH FLOODPLAIN QUALITY LR (Per Bank) LR (Most Predominant per Bank) LR	
RIPARIAN WIDTH L R (Per Bank) Wide >10m L R (Most Predominant per Bank) Mature Forest, Wetland Conservation Tillage	
RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) L R	
RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Urban or Industrial	op
RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None RIPARIAN WIDTH L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Conservation Tillage L R (Most Predominant per Bank) L R (Most Pr	ор
RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Conservation Tillage L R (Most Predominant per Bank) L R (Most Pred	op _
RIPARIAN WIDTH L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Narrow <5m Residential, Park, New Field None COMMENTS FLOW REGIME (At Time of Evaluation) Procedure (Check ONLY one box):	<u></u>
RIPARIAN WIDTH L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field Wining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) Stream Flowing Subsurface flow with isolated pools (Interstitial) FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Onservation Tillage Urban or Industrial Open Pasture, Row Cr Mining or Construction Mining or Construction Comments Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)	<u></u>
RIPARIAN WIDTH L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field Fenced Pasture COMMENTS FLOW REGIME (At Time of Evaluation) RIPARIAN WIDTH L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R Conservation Tillage Urban or Industrial Open Pasture, Row Cr Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)	<u></u>
RIPARIAN WIDTH (Per Bank) Wide >10m Mature Forest, Wetland Immature Forest, Shrub or Old	<u></u>
RIPARIAN WIDTH (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field Open Pasture, Row Cr None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 3.0	<u></u>
RIPARIAN WIDTH Residential, Park, New Field Winde Storm Flowing Subsurface flow with isolated pools (Interstitial) SINUOSITY (Number of bends per 61 m (200 ft) of channel) Residentiant per Bank) L R (Most Predominant per Bank) None	<u></u>
RIPARIAN WIDTH (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field Open Pasture, Row Cr None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 3.0)]

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):		
QHEI PERFORMED? - Yes / No QHEI Score (If Yes, Atta	ach Completed QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)		
WWH Name: Walnut Creek	Distance from Evaluated Stream	0.69
CWH Name: _	_ Distance from Evaluated Stream _	
EWH Name:	Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHEE	O AREA. CLEARLY MARK THE SITE LO	OCATION
USGS Quadrangle Name: Baltimore NRCS Soil Map F	Page: NRCS Soil Map Stream	Order _
County: Fairfield Township / City: Baltim	ore	
MISCELLANEOUS		
Base Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24	Quantity: 0.03	
Photograph Information:		
Elevated Turbidity? (Y/N): Y Canopy (% open): 100%		
Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. a	and attach results) Lab Number:	
	Conductivity (µmhos/cm)	
Is the sampling reach representative of the stream (Y/N) If not, please explain:		
Additional comments/description of pollution impacts:		
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional ID number. Include appropriate field data sheets from the Pri Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Aquatic Macroinvertebrate Comments Regarding Biology:	imary Headwater Habitat Assessment Ma Voucher? (Y/N)	nual)

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





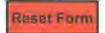
ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

П	1.1.	Т
	65	

SITE NUMBER	Baltimore - W. Millersport ST-55-INT RIVER BASIN DRAINAGE AREA (mi²)	.24
	LAT. 39.80056 LONG -82.61736 RIVER CODE RIVER MILE	
DATE 03/27/24 SCORER Nathan		
	orm - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uction
STREAM CHANNEL NONE / N	NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO REC	OVERY
	every type of substrate present. Check ONLY two predominant substrate TYPE boxes	
(Max of 32). Add total number of sign	ificant substrate types found (Max of 8). Final metric score is sum of boxes A & B. PERCENT TYPE PERCENT	Met
BLDR SLABS [16 pts]	0% SILT [3 pt] 0%	Poi
BOULDER (>256 mm) [16 pts]	0%! LEAF PACK/WOODY DEBRIS [3 pts]0%!	Subs
BEDROCK [16 pt]	0% FINE DETRITUS [3 pts] 0%	Max
COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts]		100
SAND (<2 mm) [6 pts]	20% ARTIFICIAL [3 pts] 0%	10
Total of Percentages of	Exhalesta Haranalana (R)	-
Bidr Slabs, Boulder, Cobble, Bedrock		A+
CORE OF TWO MOST PREDOMINATE SU	BSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 4	
Maximum Pool Depth (Measure the	e maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool
evaluation. Avoid plunge pools from r	road culverts or storm water pipes) (Check ONLY one box):	Max
> 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts]	> 5 cm - 10 cm [15 pts] < 5 cm [5 pts]	-
> 10 - 22.5 cm [25 pts]	NO WATER OR MOIST CHANNEL [0 pis]	25
CAY TWO A Page		
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 15	_
		0.00
. BANK FULL WIDTH (Measured as t		Banl
BANK FULL WIDTH (Measured as t > 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Wic
. BANK FULL WIDTH (Measured as t	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wic
BANK FULL WIDTH (Measured as t > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wid
BANK FULL WIDTH (Measured as t > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Bani Wid Max
BANK FULL WIDTH (Measured as t > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wid Max
BANK FULL WIDTH (Measured as to 1.5 of the state of the s	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 6.67 This information must also be completed DPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆	Wid
BANK FULL WIDTH (Measured as to 1.5 of the state of the s	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 6.67 This information must also be completed DPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ FLOODPLAIN QUALITY	Wid
BANK FULL WIDTH (Measured as to 24.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOO	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 6.67 This information must also be completed DPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆	Wid Max
BANK FULL WIDTH (Measured as to 1.5 of the second s	This information must also be completed DPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old AVERAGE BANKFULL WIDTH (meters): 6.67	Wid
BANK FULL WIDTH (Measured as to 1.5 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOO RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 6.67 This information must also be completed DPLAIN QUALITY	Wid Max
BANK FULL WIDTH (Measured as to 1.5 of the second s	This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field New Field Predominant per Park	Wid Max
BANK FULL WIDTH (Measured as to 1.5 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOO RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 6.67 This information must also be completed DPLAIN QUALITY	Wid Max
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BANK FULL WIDTH (Measured as to 1.5 of the second s	This information must also be completed OPPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture Fenced Pasture Straluation) (Check ONLY one box): AVERAGE BANKFULL WIDTH (meters): 6.67 L R Conservation Tillage Urban or Industrial Open Pasture, Row Conservation Mining or Construction	Wid Max
BANK FULL WIDTH (Measured as to 14.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOO RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This information must also be completed DPLAIN QUALITY	Wid Max
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BANK FULL WIDTH (Measured as to see the second seco	This information must also be completed ODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) I Mature Forest, Wetland I Immature Forest, Shrub or Old Field Residential, Park, New Field Residential, Park, New Field Fenced Pasture Mining or Construction Evaluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral) disper 61 m (200 ft) of channel) (Check ONLY one box): 1.0 3.0	Wid Max
BANK FULL WIDTH (Measured as to a 4.0 meters (> 13') [30 pts] > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOO RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Extreme Flowing Subsurface flow with isolated products of the comments of t	This information must also be completed AVERAGE BANKFULL WIDTH (meters): AVERAGE BANKFULL WIDTH (meters): This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Shrub or Old Residential, Park, New Field Residential, Park, New Field Fenced Pasture Mining or Construction Evaluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)	Wid Max
BANK FULL WIDTH (Measured as to see the second seco	This information must also be completed DPLAIN QUALITY	Wid Max

ADDITIONAL STREAM INFORMATION (This	Information Must Also be Completed):
QHEI PERFORMED? - Yes	No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED US	E(S)
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MA	APS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Fairfield	Township / City: Lancaster
	Tomonp / Ony.
MISCELLANEOUS	of last precipitation: 03/26/24 Quantity: 0.30
	of last precipitation: 03/26/24 Quantity: 0.30
hotograph Information:	
levated Turbidity? (Y/N): Can	лору (% <u>open):</u> 0%
Vere samples collected for water chemistry?	(Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A
	lved Oxygen (mg/l)pH (S.U.) Conductivity (µmhos/cm)
s the sampling reach representative of the str	ream (Y/N) Y If not, please explain:
o the camping reactive presentative of the st	Wiley places of plants
1	
additional comments/description of pollution in	npacts:
ID number. Inc	all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the stude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N
	IVE DESCRIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other	er features of interest for site evaluation and a narrative description of the stream's location.
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Rook	Alg Land
FLOW THE NAME OF THE PARTY OF T	A les
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· ·	Ceside La Cara 2
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	11. 11
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ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

=0
70
13

	SITE NUMBER ST-53-INT RIVER BASIN DRAINAGE AREA (mi²) 0.30 DF STREAM REACH (ft) 170 LAT. 39.79897 LONG. -82.61860 JRIVER CODE RIVER MILE 8/27/24 SCORER Nathan Barner COMMENTS
	Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for Instructi
	CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING:
	UBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. PERCENT TYPE SILT [3 pt] 0% LEAF PACK/WOODY DEBRIS [3 pts] 0% SILT [3 pt] 0% SILT [
	F TWO MOST PREDOMINATE SUBSTRATE TYPES: 21 TOTAL NUMBER OF SUBSTRATE TYPES: 3
E ?	Asximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of valuation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): So centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 5 cm [5 pts] > 5 cm [5 pts]
· >	ANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): 1.0 meters (> 13') [30 pts]
	OMMENTSAVERAGE BANKFULL WIDTH (meters): 5.00
	This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH R (Per Bank)

QHEI PERFORMED? - Yes ✓	No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE	E(S)
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MA	PS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
ounty: Fairfield	Township / City: Lancaster
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Y Date o	of last precipitation: 03/26/24 Quantity: 0.30
hotograph Information:	
Elevated Turbidity? (Y/N): N Cand	opy (% open): 100%
Vere samples collected for water chemistry? (
	ved Oxygen (mg/l)pH (S.U.) Conductivity (µmhos/cm)
	v I
s the sampling reach representative of the stre	eam (Y/N) If not, please explain:
Additional comments/description of pollution im	npacts:
dational definitions, accomplish of political in	ipusis.
Fish Observed? (Y/N) N Voucher? (Y/N) Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) Vou	all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the lude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N Vouche
Comments Regarding Biology:	
comments Regarding Biology;	
	VE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):
DRAWING AND NARRATI	VE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed): r features of interest for site evaluation and a narrative description of the stream's location
DRAWING AND NARRATI	40 - 140 G. F. (140 G. G. G. G. G. G. G. G. G. G. G. G. G.
DRAWING AND NARRATI Include important landmarks and other	r features of interest for site evaluation and a narrative description of the stream's location
DRAWING AND NARRATI Include important landmarks and other	r features of Interest for site evaluation and a narrative description of the stream's location
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DRAWING AND NARRATI Include important landmarks and other N Ag	Testures of Interest for site evaluation and a narrative description of the stream's location Testidential furf Carrol behaveers
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DRAWING AND NARRATI Include important landmarks and other N Ag Woodel Tigarian	restures of Interest for site evaluation and a narrative description of the stream's location Land residential fulf Careol tortern tort
DRAWING AND NARRATI Include important landmarks and other N Ag Woodel Tigarian	relatures of Interest for site evaluation and a narrative description of the stream's location Carcol Fesidential furf Carcol Fostern F
DRAWING AND NARRATI Include important landmarks and other N Ag Woodel riparien	restures of interest for site evaluation and a narrative description of the stream's location Carcol Fostern
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DRAWING AND NARRATI Include important landmarks and other N Ag Woodel riparien	restures of interest for site evaluation and a narrative description of the stream's location The Land Tesidential furf Carcol Fostern Road NW Nerbaceur riparian NW Road Road NW Road NW Road NW Road Road NW Road Road Road NW



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

27	
31	

	TION W. Lancaster - S.				DDA	NAGE AREA (mi²)	27
anta a large vertica di Lata Ca							.21
	AM REACH (ft) . 115			2.02212 RIVE	R CODE	RIVER MILE	
ATE 03/2/124	scorer Nathan	COMV	MENTS !		-		_
NOTE: Comple	te All Items On This Fo	orm - Refer to "	Field Evaluation	Manual for O	hio's PHWH	Streams" for Instr	uctio
			П			FOELF OF NO 550	
TREAM CHANI MODIFICATION		NATURAL CHANN	IEL DRECOVE	RED LIRECO	VERING LIR	ECENT OR NO REC	OVER
	TE (Estimate percent of e						
	2). Add total number of signi			8). Final metrics	core is sum of t		H
TYPE BLDR	SLABS [16 pts]	PERCENT	TYPE SILT	3 nti		PERCENT 1 35% 1	Po
	DER (>256 mm) [16 pts]	0%		PACK/WOODY D	DEBRIS [3 pts]	5%	18
BEDRO	OCK [16 pt]	0%		DETRITUS [3 pts	s]	1 10%	Sub
	LE (65-256 mm) [12 pts]	0%		or HARDPAN [0	pt]	50%	l l
	EL (2-64 mm) [9 pts]	0% 1	Record Council	([0 pts]		1 0%	
SAND	(<2 mm) [6 pts]	1_0%	□□ ARTI	FICIAL [3 pts]		0%	
	al of Percentages of			e Rementage 100	% 1	(B)	A
	, Boulder, Cobble, Bedrock		3 Chec			E TYPES.	113
ORE OF TWO N	MOST PREDOMINATE SU	BSIRATE TYPES	5: 3	OTAL NUMBER	OF SUBSTRAI	E TYPES: 4	5.4
Maximum	Pool Depth (Measure the	maximum pool	depth within the	61 meter (200 ft)	evaluation reac	n at the time of	Poo
	. Avoid plunge pools from r	oad culverts or sto	The second secon			4 - 4 - 4 - 1	Ma
The state of the s	neters [20 pts]) cm [30 pts]			:m - 10 cm [15 pts :m [5 pts]	5]		
	5 cm [25 pts]			WATER OR MOIS	T CHANNEL [pts]	2
					u sentu.	timeters): 15	
COMMEN	15			MAXIMUM POC	DEP IN (cen	timeters): 13	
							-7
	LL WIDTH (Measured as t	the average of 3-			ONLY one box		2.44
> 4.0 meters	s (> 13') [30 pts]	the average of 3⊸	> 1.0	m - 1.5 m (> 3' 3'	' - 4' 8") [15 pts]		W
> 4.0 meters > 3.0 m - 4.		the average of 3-	> 1.0		' - 4' 8") [15 pts]		W
> 4.0 meters > 3.0 m - 4. > 1.5 m - 3.	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts]	the average of 3⊸	> 1.0	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts	' - 4' 8") [15 pts]		Ma
> 4.0 meters > 3.0 m - 4.	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts]	the average of 3⊸	> 1.0	m - 1.5 m (> 3' 3'	' - 4' 8") [15 pts]		Ma
> 4.0 meters > 3.0 m - 4. > 1.5 m - 3.	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts]		> 1,0 ✓ ≤ 1,0	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts _AVERAGE BAN	' - 4' 8") [15 pts] :] IKFULL WIDTH		Ma
> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMEN	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] TS	This	> 1.0 ✓ ≤ 1.0	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete	' - 4' 8") [15 pts] :] IKFULL WIDTH	(meters): 0.33	Ma
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> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMENT	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] TS PARIAN ZONE AND FLOO	This DPLAIN QUALITY FLOODPLA L R (N	information must Y ☆NOTE: Ri AIN QUALITY Most Predominant Mature Forest, Wetl	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete over Left (L) and R per Bank) and	- 4' 8") [15 pts] IKFULL WIDTH ed ight (R) as look	(meters): 0.33	Ma
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> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMENT	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] .TS PARIAN ZONE AND FLOO IPARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m Narrow <5m	This DPLAIN QUALITY FLOODPLA N N N N N N N N N N N N N N N N N N N	information must Y ☆NOTE: Ri MN QUALITY Most Predominant flature Forest, Wet mmature Forest, S ield Residential, Park, N	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete ver Left (L) and R per Bank) and hrub or Old	LR Co	ing downstream ☆ onservation Tillage ban or Industrial pen Pasture, Row Cro	Ma
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> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMENT RIF	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] .TS PARIAN ZONE AND FLOO PARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None OMMENTS OW REGIME (At Time of E	This DPLAIN QUALITY FLOODPLAIN N M M M M M M M M M M M M M M M M M M	information must Y ☆NOTE: Ri AIN QUALITY Most Predominant flature Forest, Wet mature Forest, S ield desidential, Park, N enced Pasture	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete ver Left (L) and R per Bank) and hrub or Old ew Field Moist Channel	LR Co	ing downstream ☆ onservation Tillage ban or Industrial oen Pasture, Row Cro ning or Construction no flow (Intermittent)	W Ma
> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMENT RIF RIF CO CO FL Stre Sub	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] .TS PARIAN ZONE AND FLOO IPARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None DMMENTS OW REGIME (At Time of E	This DPLAIN QUALITY FLOODPLAIN N M M M M M M M M M M M M M M M M M M	information must Y ☆NOTE: Ri NOUALITY Most Predominant flature Forest, Wet mature Forest, S ield Residential, Park, N enced Pasture	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete ver Left (L) and R per Bank) and hrub or Old ew Field Moist Channel	LR Co	ing downstream ☆ onservation Tillage ban or Industrial oen Pasture, Row Cro ning or Construction no flow (Intermittent)	W Ma
> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMENT RIF RIF CO CO FL Stree Sub CO	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] .0 m (> 9' 7" - 4' 8") [20 pts] .TS PARIAN ZONE AND FLOO LIPARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None DMMENTS OW REGIME (At Time of Exam Flowing DSUMFACE flow with isolated pomments)	This PLOODPLAN QUALITY FLOODPLAN M. M. M. M. M. M. M. M. M. M. M. M. M.	information must Y ☆NOTE: Ri AIN QUALITY Most Predominant flature Forest, Wet mature Forest, S ield desidential, Park, N enced Pasture	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete ver Left (L) and R per Bank) and hrub or Old ew Field Moist Channel, n	LR College Miles of Water (Epher	ing downstream ☆ onservation Tillage ban or Industrial oen Pasture, Row Cro ning or Construction no flow (Intermittent)	W Ma
> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMENT RIFE L R CO CO FL Stre Sub CO SIM	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] .0 m (> 9' 7" - 4' 8") [20 pts] TS PARIAN ZONE AND FLOO IPARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None DMMENTS OW REGIME (At Time of Exam Flowing) DSUITAGE flow with isolated pomments.	This Evaluation (Checools (Interstitial)	information must Y ☆NOTE: Ri AIN QUALITY Most Predominant flature Forest, Wet mature Forest, S ield desidential, Park, N enced Pasture	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete over Left (L) and R per Bank) and hrub or Old ew Field Moist Channel Dry channel, neck ONLY one book	LR College Miles of Water (Epher	ing downstream ☆ onservation Tillage ban or Industrial oen Pasture, Row Cro ning or Construction no flow (Intermittent)	W Ma
> 4.0 meters > 3.0 m - 4. > 1.5 m - 3. COMMENT RIF RIF CO CO FL Stree Sub CO	s (> 13') [30 pts] .0 m (> 9' 7" - 13') [25 pts] .0 m (> 9' 7" - 4' 8") [20 pts] .0 m (> 9' 7" - 4' 8") [20 pts] TS PARIAN ZONE AND FLOO IPARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None DMMENTS OW REGIME (At Time of Exam Flowing) DSUITAGE flow with isolated pomments.	This PLOODPLAN QUALITY FLOODPLAN M. M. M. M. M. M. M. M. M. M. M. M. M.	information must Y ☆NOTE: Ri AIN QUALITY Most Predominant flature Forest, Wet mature Forest, S ield desidential, Park, N enced Pasture	m - 1.5 m (> 3' 3') m (<=3' 3") [5 pts AVERAGE BAN also be complete ver Left (L) and R per Bank) and hrub or Old ew Field Moist Channel, n	LR College Miles of Water (Epher	ing downstream ☆ onservation Tillage ban or Industrial oen Pasture, Row Cro ning or Construction no flow (Intermittent)	

ADDITIONAL STREAM INFORMATION (This I	Information Must Also be Completed):
QHEI PERFORMED? - Yes ✓	No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE	E(S)
WWH Name:	Distance from Evaluated Stream
Terror I	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
	.PS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Fairfield	Township / City: Lancaster
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Y Date of	of last precipitation: 03/26/24 Quantity: 0.30
Photograph Information:	
Elevated Turbidity? (Y/N): N Cand	opy (% open): 100%
Were samples collected for water chemistry? ((Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A
	ved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
s the sampling reach representative of the stre	eam (Y/N) Y If not, please explain:
s the sampling reach representative of the sire	That, please explain.
Additional comments/description of pollution im	npacts:
Fish Observed? (Y/N) N Voucher? (Y/N)	all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with to lude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N Salamanders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
DRAWING AND NARRATIV	VE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):
Include important landmarks and other	r features of interest for site evaluation and a narrative description of the stream's location
	. N
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	+
	3has
LOW T	riparian
	Shas
	riparian e
	(B)
	10



Primary Headwater Habitat Evaluation Form 55 HHEI Score (sum of metrics 1, 2, 3) : SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport SITE NUMBER ST-44-INT RIVER BASIN DRAINAGE AREA (mi²) 10.15 100 LAT. 39.78067 LONG. -82.62624 RIVER CODE LENGTH OF STREAM REACH (ft) RIVER MILE DATE 03/27/24 SCORER Nathan Barns COMMENTS : NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions NONE / NATURAL CHANNEL ☐ RECOVERED ☐ RECOVERING ☐ RECENT OR NO RECOVERY STREAM CHANNEL MODIFICATIONS: SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes HHEI (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. Metric TYPE PERCENT TYPE PERCENT **Points** BLDR SLABS [16 pts] 10% 0% SILT [3 pt] 0% BOULDER (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS [3 pts] 0% Substrate 0% 0% FINE DETRITUS [3 pts] BEDROCK [16 pt] Max = 4030% 0% COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] 30% 0% MUCK [0 pts] GRAVEL (2-64 mm) [9 pts] 25 30% 0% SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts] Total of Percentages of (B) 30.00% 100% A+B Bldr Slabs, Boulder, Cobble, Bedrock 21 SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: Pool Depth Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Max = 30 evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 22.5 - 30 cm [30 pts] < 5 cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts] 15 > 10 - 22.5 cm [25 pts] MAXIMUM POOL DEPTH (centimeters): COMMENTS (Check ONLY one box): Bankfull BANK FULL WIDTH (Measured as the average of 3-4 measurements) Width > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 4.0 meters (> 13') [30 pts] Max=30 > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] 1.20 15 AVERAGE BANKFULL WIDTH (meters): COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY RIPARIAN WIDTH (Per Bank) R (Most Predominant per Bank) Mature Forest, Wetland Conservation Tillage Wide >10m Immature Forest, Shrub or Old Moderate 5-10m Urban or Industrial Field Open Pasture, Row Crop Narrow <5m 11 Residential, Park, New Field Fenced Pasture Mining or Construction None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent) Stream Flowing Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): 3.0

2.0

2.5

Moderate to Severe

>3

Severe (10 ft/100 ft)

1.0

1.5

Moderate (2 ft/100 ft)

Flat (0.5 ft/100 ft)

None

STREAM GRADIENT ESTIMATE

Flat to Moderate

0.5

ADDITIONAL STREAM INFO	ORMATION (This Information Must Al	so be Completed):	
QHEI PERFORME	D? - Yes V No QHEI Score	(If Yes, Attach Com	pleted QHEI Form)
DOWNSTREAM D	DESIGNATED USE(S)		
WWH Name:		_ Dista	nce from Evaluated Stream
CWH Name:		Distan	ce from Evaluated Stream
EWH Name:		Distar	ce from Evaluated Stream _
MAPPING: ATTAC	CH COPIES OF MAPS, INCLUDING THE	ENTIRE WATERSHED AREA.	CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name;		NRCS Soil Map Page:	NRCS Soil Map Stream Order
County: Fairfield	Tow	nship / City: Lancaster	
MISCELLANEOUS	s		
Base Flow Conditions? (Y/N): Y Date of last precipitation:	03/26/24 Qu	antity: 0.30
Photograph Information:			
Elevated Turbidity? (Y/N):	N Canopy (% open): 9	0%	
		Marian Artistan	L INIA
Nere samples collected for	water chemistry? (Y/N): N (Note	lab sample no. or id. and attac	ch results) Lab Number: N/A
Field Measures: Temp (*	C) Dissolved Oxygen (mg/l)	pH (S.U.)	Conductivity (µmhos/cm)
s the sampling reach repres	sentative of the stream (Y/N)	ot, please explain:	
	Was 100 100 A 100 C		
Additional comments/descrip	ption of pollution impacts:		
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observed Comments Regarding Biology	(If Yes, Record all observations. Vouc ID number. Include appropriate field of Voucher? (Y/N) Salamanders d? (Y/N) Voucher? (Y/N) Aq	late sheets from the Primary He	ucher? (Y/N)
No biotic evaluation cond	lucted		
	AND NARRATIVE DESCRIPTION		I (This <u>must</u> be completed): rative description of the stream's location
			7
FLOW →	residential turf	Sheeds shootbuse	significant of the second of t
	ret colonian	1 residen	Hal test
	residential	1 1	

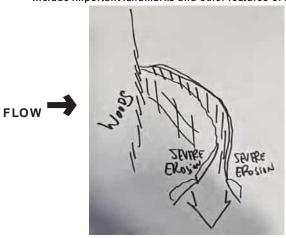




Chief Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport	
	0.32
LENGTH OF STREAM REACH (ft) 221 LAT. 39.77551 LONG82.62766 RIVER CODE EPH RIVER MILE	N/A
DATE 03/27/24 SCORER L. Vine COMMENTS	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	ructions
STREAM CHANNEL	COVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	ı HHEI
TYPE PERCENT TYPE PERCENT	Metri
BLDR SLABS [16 pts]	Point
BOULDER (>256 mm) [16 pts]	Substrat
COBBLE (65-256 mm) [12 pts]	Max = 4
☐ GRAVEL (2-64 mm) [9 pts] ☐ MUCK [0 pts] ☐ 0% ☐ ARTIFICIAL [3 pts] ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0	7
Total of Percentages of 0.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock 6 Check 100% SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6	7.5
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Max = 3
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 5 cm - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	15
COMMENTS MAXIMUM POOL DEPTH (centimeters): 20	
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00	5
This information <u>must</u> also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆	
RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m	
Moderate 5-10m Immature Forest, Shrub or Old Urban or Industrial	
Field Open Pasture Row C	ron
Narrow < 5m Residential, Park, New Field	·
None Fenced Pasture Mining or Construction COMMENTS	n
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
Stream Flowing Moist Channel, isolated pools, no flow (Intermitten	t)
Subsurface flow with isolated pools (Interstitial) COMMENTS Dry channel, no water (Ephemeral)	
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
None 1.0 2.0 3.0 ✓ 0.5 1.5 2.5 >3	
STREAM GRADIENT ESTIMATE	
STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft)	100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must A	Also be Completed):	
QHEI PERFORMED? - Yes ✓ No QHEI Score	(If Yes, Attach Completed QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)		
WWH Name: Hocking River	Distance from Evaluated Stream	2.50
CWH Name:	Distance from Football Office	
EWH Name:	Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE L	OCATION
USGS Quadrangle Name: Carroll	NRCS Soil Map Page: NRCS Soil Map Stream	n Order _
Paintiald	wnship / City: Dumontville	
MISCELLANEOUS		
Base Flow Conditions? (Y/N): Y Date of last precipitation:	03/26/24 Quantity: 0.03	
Photograph Information:		
Elevated Turbidity? (Y/N): Y Canopy (% open):	0%	
Were samples collected for water chemistry? (Y/N): Note:	e lab sample no. or id. and attach results) Lab Number:	
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (µmhos/cm)	
Y Is the constitution of the atmosp (V(N)	nat places contain.	
Is the sampling reach representative of the stream (Y/N) If I	not, please explain:	
Additional comments/description of pollution impacts:		
BIOTIC EVALUATION		
N		
Performed? (Y/N): (If Yes, Record all observations. Vou	cher collections optional. NOTE: all voucher samples must be la	
	data sheets from the Primary Headwater Habitat Assessment Ma	anual)
Fish Observed? (Y/N) Voucher? (Y/N) Salamander Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Ac	rs Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	<u>N</u>
Comments Regarding Biology:	l l	
		
DRAWING AND NARRATIVE DESCRIPTION	ON OF STREAM REACH (This <u>must</u> be comple	ted):
Include important landmarks and other features of interest	t for site evaluation and a narrative description of the strea	m's location
ATT		
Will the same of t		









Primary Headwater Habitat Evaluation Form

63

HHEI Score (sum of metrics 1, 2, 3): SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport SITE NUMBER ST-42-INT RIVER BASIN Hocking DRAINAGE AREA (mi²) 0.68 LAT. 39.77506 LONG. -82.62789 RIVER CODE INT RIVER MILE <1 LENGTH OF STREAM REACH (ft) DATE 03/27/24 SCORER L. Vine COMMENTS NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions NONE / NATURAL CHANNEL ☐ RECOVERED ☐ RECOVERING ☐ RECENT OR NO RECOVERY STREAM CHANNEL **MODIFICATIONS:** SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes HHEI (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. Metric **TYPE PERCENT PERCENT Points** BLDR SLABS [16 pts] SILT [3 pt] 30% BOULDER (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS [3 pts] 0% 0% Substrate 0% BEDROCK [16 pt] 0% FINE DETRITUS [3 pts] Max = 400% 0% COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] 40% 0% GRAVEL (2-64 mm) [9 pts] MUCK [0 pts] 18 30% 0% SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts] Total of Percentages of (B) Substrate Percentage 0.00% 100% A + BBldr Slabs, Boulder, Cobble, Bedrock TOTAL NUMBER OF SUBSTRATE TYPES: 3 SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool Depth evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Max = 30> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 22.5 - 30 cm [30 pts] < 5 cm [5 pts] > 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts] 25 20 COMMENTS **MAXIMUM POOL DEPTH (centimeters):** BANK FULL WIDTH (Measured as the average of 3-4 measurements) Bankfull (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Width Max=30 > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] \leq 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] 2.00 COMMENTS AVERAGE BANKFULL WIDTH (meters): 20 This information must also be completed ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH **FLOODPLAIN QUALITY** (Per Bank) R (Most Predominant per Bank) Wide >10m Mature Forest. Wetland Conservation Tillage Immature Forest, Shrub or Old Moderate 5-10m Urban or Industrial Field Open Pasture, Row Crop Narrow <5m Residential, Park, New Field Fenced Pasture None Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent) Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 0.5 15 >3 STREAM GRADIENT ESTIMATE

Severe (10 ft/100 ft)

Moderate (2 ft/100 ft)

Flat (0.5 ft/100 ft)

Flat to Moderate

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Hocking River Distance from Evaluated Stream 2.50 CWH Name: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Carroll NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Fairfield Township / City: Dumontville
MISCELLANEOUS
Base Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24 Quantity: 0.03
Photograph Information:
Elevated Turbidity? (Y/N): Y Canopy (% open): 0%
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain: Additional comments/description of pollution impacts:
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) N Voucher? (Y
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 FLOW

Save as pdf





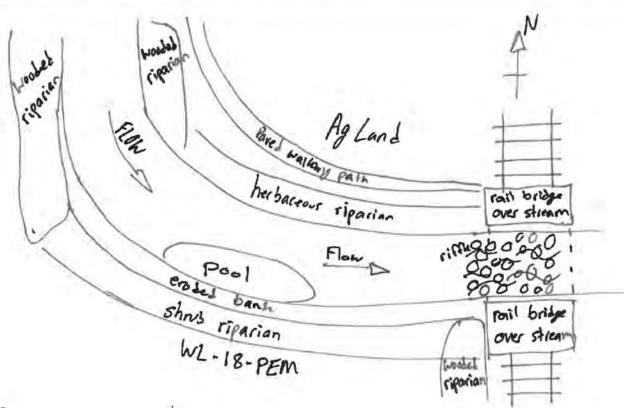
Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	56.5

Stream & Location: W. Lancaster	r - S. Baltimore -	W. Millersport	RM:	Date: 3 / 28	/ 24
Hocking River	75. A. 15.	_Scorers Full Name &	Affiliation: V3 Com	panies - Nathan Ba	
River Code:	STORET #:_		39 . 72957 /8 2	. 63418 Office	verified location
	OTHER TY HARDPAI DETRITU MUCK [2] SILT [2] ARTIFICIA (Score na	PES POOL RIFFLE N [4] 10	TLANDS [0] SILT	QUALITY HEAVY [-2] MODERATE [-1] NORMAL [0] FREE [1] EXTENSIVE [-2] MODERATE [-1] NORMAL [0] NONE [1]	Substrate 13 Maximum 20
2] INSTREAM COVER Indicate pre quality; 2-M quality; 3-Highest quality in moderate or diameter log that is stable, well develope 1 UNDERCUT BANKS [1] 1 OVERHANGING VEGETATION [1 0 SHALLOWS (IN SLOW WATER) 1 ROOTMATS [1]	oderate amounts, greater amounts (ed rootwad in deep POOLS ROOTV	but not of highest quality or in a.g., very large boulders in der / fast water, or deep, well-defi > 70cm [2] 0 OXBOW: VADS [1] 0 AQUATION	small amounts of highest ap or fast water, large ined, functional pools. S, BACKWATERS [1] C MACROPHYTES [1]	AMOUNT Check ONE (Or 2 & ave EXTENSIVE >75% [1 MODERATE 25-75% SPARSE 5-<25% [3] NEARLY ABSENT <5 Cover	1] [7] 5% [1]
3] CHANNEL MORPHOLOGY Ch SINUOSITY DEVELOPMEN HIGH [4]	T CHANN NONE [6] RECOVER	ELIZATION ST	ABILITY IGH [3] IODERATE [2] OW [1]	Channe Maximun 20	The same of the
EROSION WIDE	ARIAN WIDTH > 50m [4] ERATE 10-50m [3] ROW 5-10m [2] 'NARROW < 5m [FLOOD PL	AIN QUALITY [3]	conservation tilla URBAN OR INDUSTRIA MINING / CONSTRUCTION of predominant land use(s 00m riparian. Riparian Maximum	1. [0] ON [0]
Check ONE (ONLY!) Check (☐ > 1m [6] ☐ POOL WID ☐ 0.7-<1m [4] ☐ POOL WID	RUN QUALIT ANNEL WIDTH ONE (Or 2 & avera OTH > RIFFLE WID OTH = RIFFLE WID OTH < RIFFLE WID	GURRENT Ge) Check ALI TH [2] CHORRENTIAL [-1] TH [1] CHECK FAST [1] TH [0] FAST [1] MODERATE [1]	☐ INTERSTITIAL [-1] ☐ INTERMITTENT [-2]	Recreation Potent Primary Contact Secondary Contact (circle one and comment on to	act act ack)
☐ BEST AREAS > 10cm [2] ☐ MAXIMI	DEPTH UM > 50cm [2] UM < 50cm [1] □	must be large enough heck ONE (Or 2 & average). RIFFLE / RUN SUBSTI STABLE (e.g., Cobble, Boul MOD. STABLE (e.g., Large (UNSTABLE (e.g., Fine Grave	RATE RIFFLE / RU der) [2]	tion □NO RIFFLE [metric=0]
DRAINAGE AREA	ERY LOW - LOW MODERATE [6-10] MGH - VERY HIGH	701 0		\simeq	3

Check ALL that apply METHOD STAGE BOAT 1st -sample pass- 2nd HIGH					
□ 0.5 Km □ 0.2 Km □ 0.15 Km □ 0.15 Km □ 0.12 Km □ 0.12 Km □ 0.12 Km □ 20-<40 cm □ 20-<40 cm □ 20-<40 cm □ 20-<40 cm □ 300 □ > 70 cm/ CTB □ SECCHI DEPTH□ CANOPY 1st cm □ > 85%- OPEN 80 cm □ > 55%-<85% 2nd cm □ 30%-<55% □ 10%-<30% C] RECRE	INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	Circle some & COMMENT	EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION > SURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	F] MEASUREMENTS x width x depth max. depth x bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:

Stream Drawing:





Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 40.25

Stream & Location: W. Lar	caster - S. Baltimore - W. M	illersport		RM: _	Date:	3/ 28/ 24
ST-14-PER	Sco		ame & Affiliatio		panies - Nat	han Barnett
River Code:	STORET #:	Lat./	ong.: 39 . 72	526 /82	63249	Office verified location
1] SUBSTRATE Check ONLY estimate % or BEST TYPES POOL R BEST BLDR /SLABS [10]	OTHER TYPES HARDPAN [4] DETRITUS [3] 30 SILT [2] SILT [2] CScore natural su	10	Chec ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0] RIP/RAP [0] LACUSTURINE SHALE [-1] COAL FINES [-	SILT DI SODEON [0] III	& average) QUAL HEAVY [MODERA FREE [1] EXTENS MODERA NORMAI	-2] ATE [-1] Subst
2] INSTREAM COVER Indica quality; 3-Highest quality in moder diameter log that is stable, well de 1 UNDERCUT BANKS [1] 1 OVERHANGING VEGETAT 0 SHALLOWS (IN SLOW WA 1 ROOTMATS [1] Comments	y; 2-Moderate amounts, but not ate or greater amounts (e.g., ve veloped rootwad in deep / fast v POOLS > 70cr	of highest quality large boulde water, or deep, on [2] 0 0	ity or in small amou rs in deep or fast wa	nts of highest iter, large nal pools. TERS [1] HYTES [1]	Check ONE (C	0r 2 & average) 2 > 75% [11] 2 25-75% [7] 3 25% [3]
3] CHANNEL MORPHOLOG SINUOSITY DEVELOP HIGH [4]	MENT CHANNELIZA ENT [7] NONE [6] [7] RECOVERED [4] [8] RECOVERING [3]	ATION ! 3]	STABILITY HIGH [3] MODERATE LOW [1]	[2]		Channel Maximum 20
☐ ☐ NONE / LITTLE [3] ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	RIPARIAN WIDTH WIDE > 50m [4] MODERATE 10-50m [3] NARROW 5-10m [2] VERY NARROW < 5m [1] □	FLOOREST, S SHRUB OR RESIDENTI	OD PLAIN QUA WAMP [3] OLD FIELD [2] AL, PARK, NEW FIE	LITY B B B B B B B B B B B B B B B B B B B	CONSERVATION URBAN OR INI MINING / CONS te predominant k 00m riparian.	STRUCTION [0]
□ > 1m [6] □ POC □ 0.7-<1m [4] □ POC	FLE / RUN QUALITY CHANNEL WIDTH Check ONE (Or 2 & average) DL WIDTH > RIFFLE WIDTH [2] DL WIDTH = RIFFLE WIDTH [1] DL WIDTH < RIFFLE WIDTH [0]	Critical Torrent Very Fast Fast [1]		1] TITIAL [-1] NITTENT [-2]	Primary Secondar (circle one and c	Pool / Current Maximum 12
of riffle-obligate specie RIFFLE DEPTH ☐ BEST AREAS > 10cm [2] ☐ M	RUN DEPTH RIFF AXIMUM > 50cm [2] STABI AXIMUM < 50cm [1] MOD.	NE (Or 2 & ave LE / RUN SI LE (e.g., Cobb STABLE (e.g.,	orage). JBSTRATE R e, Boulder) [2]	IFFLE / RU	DNO	RIFFLE [metrics EDNESS
6] GRADIENT (ft/mi) DRAINAGE AREA (1.39 mi²)	MODERATE [6-10]		%POOL: 0 %RUN: 75	%GLID	=	Gradient 3

Check ALL that apply METHOD STAGE BOAT 1st-sample pass-2nd — WADE HIGH L. LINE UP — OTHER NORMAL DISTANCE DRY — 0.5 Km	omment RE: Reach consistency/ I	s reach typical of steam?, Recreation D] MAINTENANCE	n/ Observed - Inferred, Other	r/Sampling observations, Concerns, Acc	ess directions, etc. F] MEASUREMENTS
0.2 km	NUISANCE ALGAE INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	PUBLIC / PRIVATE (BOTH) NA ACTIVE HISTORIC BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED SLUMPS (SLANDS) SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	Circle some & COMMENT	WWTP / CSO / NPDES / INDUSTRY HARDENED URBAN DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION LSURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLP LAWN HOME ATMOSPHERE / DATA PAUCITY	x width x depth max. depth bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:
Stream Drawing:		Pa Turi prairi Ti	vement grass e buffer Flow	↑	

Pavement

Tuf grass

Province buffer

Colvert under

Province buffer

Colvert under

Province buffer

Tuffroad (Fair Ave)

Tiparian

Torfroad (Fair Ave)

Residential

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

26

		Millersport		
		RIVER BASIN	DRAM	AGE AREA (mi²) 0.06
ENGTH OF STREAM REACH (ft)	Annual Company of the	830 LONG82.63740		
	The state of the s	MENTS		
NOTE: Complete All Items On			or Ohio's PHWH S	Streams" for Instructi
TREAM CHANNEL MODIFICATIONS:	IONE / NATURAL CHANI	NEL RECOVERED R	ECOVERING LA	ECENT OR NO RECOVE
107-1-107-102-102-102-102-102-102-102-102-102-102				
		pstrate present. Check ONLY to ypes found (Max of 8). Final me		
TYPE	PERCENT	TYPE	uic score is suin or c	PERCENT M
BLDR SLABS [16 pts]	0%	SILT [3 pt]		30% I
BOULDER (>256 mm) [1] BEDROCK [16 pt]	6 pts]0% _	LEAF PACK/WOO		1 0% Su
COBBLE (65-256 mm) [1	The state of the s	CLAY or HARDPA		60% M
GRAVEL (2-64 mm) [9 pt		MUCK [0 pts]		0%_[
SAND (<2 mm) [6 pts]	1_10%_1	ARTIFICIAL [3 pts]	i e	0%_1
Total of Percentages of	of 0.00%	(A)substrate Percentage	100%	(B) A
Bidr Slabs, Boulder, Cobble, CORE OF TWO MOST PREDOMIN		S: 3 Check	BER OF SUBSTRAT	F TYPES: 3
	200000000000000000000000000000000000000		190 100 2000	
		depth within the 61 meter (20 orm water pipes) (Check ONL		at the time of Po
> 30 centimeters [20 pts]	is nom road curve to or st	> 5 cm - 10 cm [1	tion of the state	
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]		< 5 cm [5 pts]	MOIST CHANNEL [0	pts]
2 10 - 22.0 dir (20 pto)		I NO WATER ORT	WOIST OFFAINTEE TO	
COMMENTS	AND THE PROPERTY OF THE PARTY OF THE PROPERTY	MAXIMUM	POOL DEPTH (cen	timeters): 8
BANK FULL WIDTH (Measu	red as the average of 3-		eck ONLY one box)	
	25 pts1	> 1.0 m - 1.5 m (> ≤ 1.0 m (<=3' 3")	3' 3" - 4' 8") [15 pts]	N M
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [3	and bear		Contract to	
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [3 > 1.5 m - 3.0 m (> 9' 7" - 4' 8")	[20 pts]			
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8")	[20 pts]	AVERAGE	BANKFULL WIDTH	(meters): 0.75
> 3.0 m - 4.0 m (> 9' 7" - 13') [[20 pts]	AVERAGE	BANKFULL WIDTH	(meters): 0.75
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8")				(meters): 0.75
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS	This D FLOODPLAIN QUALIT	information <u>must</u> also be com Y ☆NOTE: River Left (L) a	npleted	
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH	This D FLOODPLAIN QUALIT FLOODPLA	information <u>must</u> also be com Y ☆NOTE: River Left (L) a AIN QUALITY	npleted nd Right (R) as looki	
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS	This D FLOODPLAIN QUALIT FLOODPL	information <u>must</u> also be com Y ☆NOTE: River Left (L) a	npleted nd Right (R) as looki L R	
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank)	This D FLOODPLAIN QUALIT FLOODPL L R (information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old	npleted nd Right (R) as looki	ng downstream☆
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This D FLOODPLAIN QUALIT FLOODPL L R (Information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field	npleted nd Right (R) as looki	ng downstream ☆
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m V Marrow <5m	This D FLOODPLAIN QUALIT FLOODPL L R (information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field Residential, Park, New Field	npleted nd Right (R) as looki	ng downstream☆ nservation Tillage ban or Industrial en Pasture, Row Crop
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This D FLOODPLAIN QUALIT FLOODPL L R (Information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field	npleted nd Right (R) as looki	ng downstream☆ nservation Tillage ban or Industrial
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This D FLOODPLAIN QUALIT FLOODPLA L R (information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture	npleted nd Right (R) as looki	ng downstream☆ nservation Tillage ban or Industrial en Pasture, Row Crop
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This D FLOODPLAIN QUALIT FLOODPL L R (information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture ck ONLY one box):	npleted nd Right (R) as looki	ng downstream☆ nservation Tillage ban or Industrial en Pasture, Row Crop
> 3.0 m - 4.0 m (> 9' 7" - 13') [: > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At 7) Stream Flowing Subsurface flow with is	This D FLOODPLAIN QUALIT FLOODPLA L R (information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture ck ONLY one box): Moist Cha	npleted nd Right (R) as looki	ng downstream ☆ Inservation Tillage ban or Industrial ben Pasture, Row Crop ning or Construction
> 3.0 m - 4.0 m (> 9' 7" - 13') [3' > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide > 10 m Moderate 5-10 m None COMMENTS FLOW REGIME (At 7) Stream Flowing Subsurface flow with is COMMENTS	This D FLOODPLAIN QUALIT FLOODPL L R (information must also be com Y ANOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture ck ONLY one box): Moist Cha Dry chann	npleted nd Right (R) as looki R Co Un Op Mi	ng downstream ☆ Inservation Tillage ban or Industrial ben Pasture, Row Crop ning or Construction
> 3.0 m - 4.0 m (> 9' 7" - 13') [3' > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide > 10 m Moderate 5-10 m None COMMENTS FLOW REGIME (At 7' Stream Flowing Subsurface flow with is COMMENTS SINUOSITY (Number	This D FLOODPLAIN QUALIT FLOODPLAIN L R (information must also be com Y ☆NOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture ck ONLY one box): Moist Cha Dry chann ft) of channel) (Check ONLY or	npleted nd Right (R) as looki R Co Un Op Mi onnel, isolated pools, nel, no water (Ephen	ing downstream ☆ Inservation Tillage In Pasture, Row Crop Ining or Construction In flow (Intermittent) Ineral)
> 3.0 m - 4.0 m (> 9' 7" - 13') [3' > 1.5 m - 3.0 m (> 9' 7" - 4' 8") COMMENTS RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At 7) Stream Flowing Subsurface flow with is COMMENTS	This D FLOODPLAIN QUALIT FLOODPL L R (information must also be com Y ANOTE: River Left (L) a AIN QUALITY Most Predominant per Bank) Mature Forest, Wetland mmature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture ck ONLY one box): Moist Cha Dry chann	npleted nd Right (R) as looki R Co Un Op Mi onnel, isolated pools, nel, no water (Ephen	ng downstream ☆ Inservation Tillage ban or Industrial ben Pasture, Row Crop ning or Construction

ADDITIONAL STREAM INFORMATION (This Info	ermation Must Also be Completed):
QHEI PERFORMED? - Yes 🗸 No	QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream _
MAPPING: ATTACH COPIES OF MAPS,	INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
SGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
ounty: Fairfield	Township / City: Lancaster
MISCELLANEOUS	
ase Flow Conditions? (Y/N): Y Date of la	st precipitation: 03/26/24 Quantity: 0.30
notograph Information:	
levated Turbidity? (Y/N): N Canopy	(% open): 100%
/ere samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A
	Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
the sampling reach representative of the stream	v 1
	()
Name of the contract of the contract of	AG
dditional comments/description of pollution impa-	cts:
ID number. Include Fish Observed? (Y/N) N Voucher? (Y/N) N	bservations. Voucher collections optional. NOTE: all voucher samples must be labeled with the sappropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Salamanders Observed? (Y/N) Voucher?
Comments Regarding Biology:	
No biotic evaluation conducted	
DRAWING AND NARRATIVE	DESCRIPTION OF STREAM REACH (This must be completed):
	atures of interest for site evaluation and a narrative description of the stream's location
	- N
	on land tuf
	croded & truf
	un and
LOW →	The The
LOW	Ay Land
	bank
	A . The state of t
	19 Land
	11,



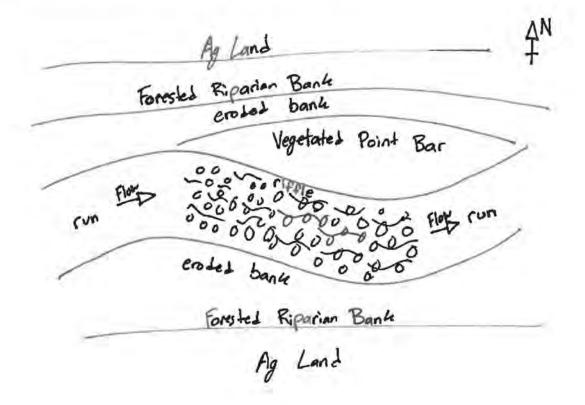
Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 44

Hunters Run		Scorere Eull	Name & Affilia	tion: V3 C		: 3 / 28 /	
River Code:	STORET #:		/Long.: 39		2 . 6401	Office ver	
11 SUBSTRATE Check ONLY	wo substrate TYPE BOXE					loc	ation L
BEST TYPES BLDR /SLABS [10] BOULDER [9] BOULDER [9] BOULDER [9] BOULDER [8] BOULDER [7] BEDROCK [5] BEDROCK [5] BUMBER OF BEST TYPES Comments	HARDPAN DETRITUS MUCK [2] DETRITUS SILT [2] DETRITUS SILT [2] OF ARTIFICIAL (Score nature) SILT [2] SILT [2] OF ARTIFICIAL (Score nature) SILT [2] OF ARTIFICIAL (SCORE nature) SILT [2] OF ARTIFICIAL (SCORE nature) SILT [2]	[4] [3] [3] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	ORIGII LIMESTON TILLS [1] WETLANDS HARDPAN SANDSTON RE RIP/RAP [0] SHALE [-1] COAL FINE	E [1] SIL S [0] SIL [0] DE HE [0] DDE J DDE S [-2] Common of mar	QUA	[-2] RATE [-1] Su LL [0]	16 aximu
quality; 3-Highest quality in moder diameter log that is stable, well de 2 UNDERCUT BANKS [1] 1 OVERHANGING VEGETATI 0 SHALLOWS (IN SLOW WA' 1 ROOTMATS [1]	veloped rootwad in deep / 0 POOLS > ON [1] 1 ROOTWA	g., very large bould fast water, or deep 70cm [2] 0 DS [1]	ders in deep or fas	t water, large actional pools. (WATERS [1]	Check ONE (EXTENSIV MODERAT SPARSE 5	Or 2 & averag E >75% [11] E 25-75% [7] -<25% [3]	
3] CHANNEL MORPHOLOG SINUOSITY DEVELOP HIGH [4]	MENT CHANNE ONT [7] ON NONE [6] RECOVERE RECOVERING	LIZATION D [4]	STABILI HIGH [3] MODERA LOW [1]			Channel Maximum 20	8
☐ NONE / LITTLE [3] ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	PARIAN ZONE Check RIPARIAN WIDTH WIDE > 50m [4] MODERATE 10-50m [3] NARROW 5-10m [2] VERY NARROW < 5m [1] NONE [0]	FLO FOREST, SHRUB O RESIDEN	OOD PLAIN Q SWAMP [3] OR OLD FIELD [2] TIAL, PARK, NEW	UALITY	ank & average) CONSERVATI URBAN OR IN MINING / CON cate predominant t 100m riparian.	IDUSTRIAL (C	0]
□ > 1m [6] □ POC □ 0.7-<1m [4] □ POC	LE / RUN QUALITY CHANNEL WIDTH heck ONE (Or 2 & average L WIDTH > RIFFLE WIDTH L WIDTH = RIFFLE WIDTH L WIDTH < RIFFLE WIDTH	e) H [2]] DINT	ply DW [1] ERSTITIAL [-1] ERMITTENT [-: DIES [1]	Primary Seconda (circle one and	Pool / Current Maximum 12	t
BEST AREAS > 10cm [2] M.	S: Che RUN DEPTH R AXIMUM > 50cm [2] □ S AXIMUM < 50cm [1] ☑ M	eck ONE (<i>Or</i> 2 & a R IFFLE / RUN : TABLE (e.g., Cob	verage). SUBSTRATE ble, Boulder) [2] J., Large Gravel)	RIFFLE / F	Ilation NO RUN EMBEDD NONE [2] LOW [1] MODERATE [0] EXTENSIVE [-1	RIFFLE [met	tric=0
6] GRADIENT (ft/mi) DRAINAGE AREA (9.2 mi²)	VERY LOW - LOW [2 MODERATE [6-10] HIGH - VERY HIGH [**		>	0 %GLI 60 %RIFF	DE: 0	Gradient Maximum 10	3

AJ SAMPLED REACH Check ALL that apply	Comment RE: Reach consistency/	Is reach typical of steam?, Recreation	Observed - Inferred, Other	er/ Sampling observations, Concerns, Acc	cess directions, etc.
METHOD STAGE BOAT 1st -sample pass-2nd HIGH					
□ 0.5 Km □ 0.2 Km □ 0.15 Km □ 0.15 Km □ 0.12 Km □ 0.12 Km □ 0.12 Km □ 0.12 Km □ 20 cm □ 20 cm □ 40-70 cm □ 40-70 cm □ 50 □ > 70 cm/ CTB □ 30 CHI DEPTH □ 20 CHI DEPTH □ 40-70 cm □ 20 CHI DEPTH □ 20 CHI	INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	PUBLIC (PRIVATE) BOTH / NA ACTIVE (RISTORIC) BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL (DRAINAGE)	Circle some & COMMENT	EJISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING EANK / EROSIOND SURFACE FALSE BAND MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	F] MEASUREMENT x width x depth max. depth x bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:

Stream Drawing:



Letter of Notification for West Lancaster – South Baltimore – West Millersport 138 kV Transmission Line Rebuild Project

Appendix F FEMA Flood Insurance Rate Maps

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

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NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

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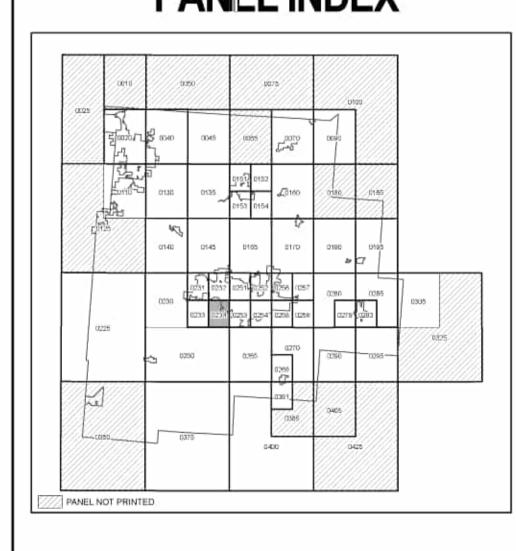
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PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined. ZONE AE

Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

Elevations determined. ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain);

average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance

ZONE AR

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

Cross section line

(22) - - - - - (23) Geographic coordinates referenced to the North American

85"03'45.0", 41" 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere 4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of KA0015 .

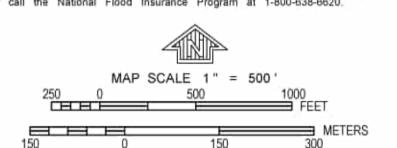
MAP REPOSITORY Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

January 6, 2012 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.





FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 234 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY FAIRFIELD COUNTY LANCASTER, CITY OF

390158 0234 G 390161 0234 G

NUMBER PANEL SUFFIX

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0234G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

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Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Ohio State Plane South Zone 5001 (FIPSZONE 3402). The horizontal datum was NAD83. Differences in datum, spheroid, projection or state plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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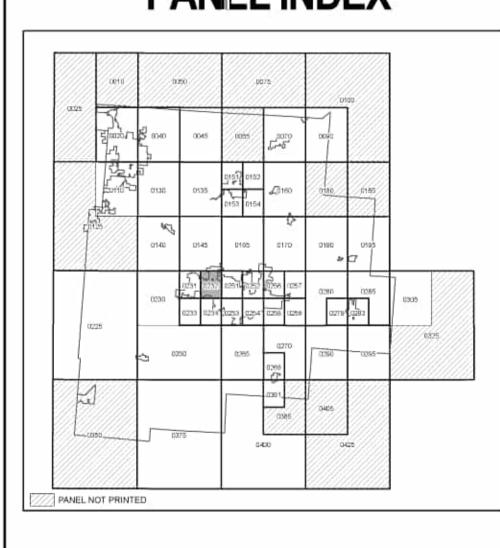
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PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined.

Elevations determined.

ZONE AE Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

> Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is

being restored to provide protection from the 1% annual chance or greater flood. Area to be protected from 1% annual chance flood event by a Federal

flood protection system under construction; no Base Flood Elevations ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

Elevations determined. ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations

FLOODWAY AREAS IN ZONE AE

determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

OTHER AREAS

ZONE AR

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. 1% annual chance floodplain boundary

0.2% annual chance floodplain boundary Floodway boundary

Zone D boundary

CBRS and OPA boundary Boundary dividing Special Flood Hazard Areas of different

Base Flood Elevations, flood depths or flood velocities. 513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone;

elevation in feet*

*Referenced to the North American Vertical Datum of 1988 Cross section line

(22) - - - - - (23)

Geographic coordinates referenced to the North American 85"03' 45.0", 41" 24' 22.5"

Datum of 1983 (NAD 83), Western Hemisphere 4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of KA0015 .

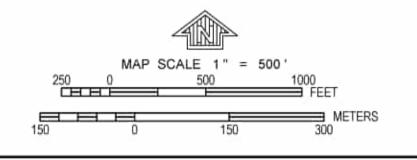
MAP REPOSITORY Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE

FLOOD INSURANCE RATE MAP January 6, 2012

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-8620.





FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

PANEL 0232G

AND INCORPORATED AREAS

PANEL 232 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY

NUMBER PANEL SUFFIX FAIRFIELD COUNTY 390158 0232 G 390161 0232 G LANCASTER, CITY OF

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0232G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

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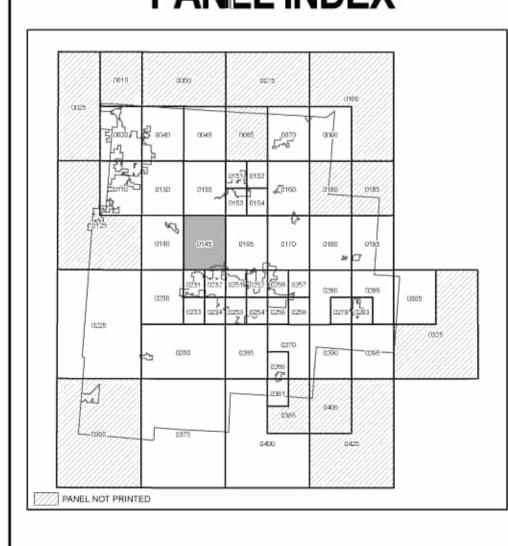
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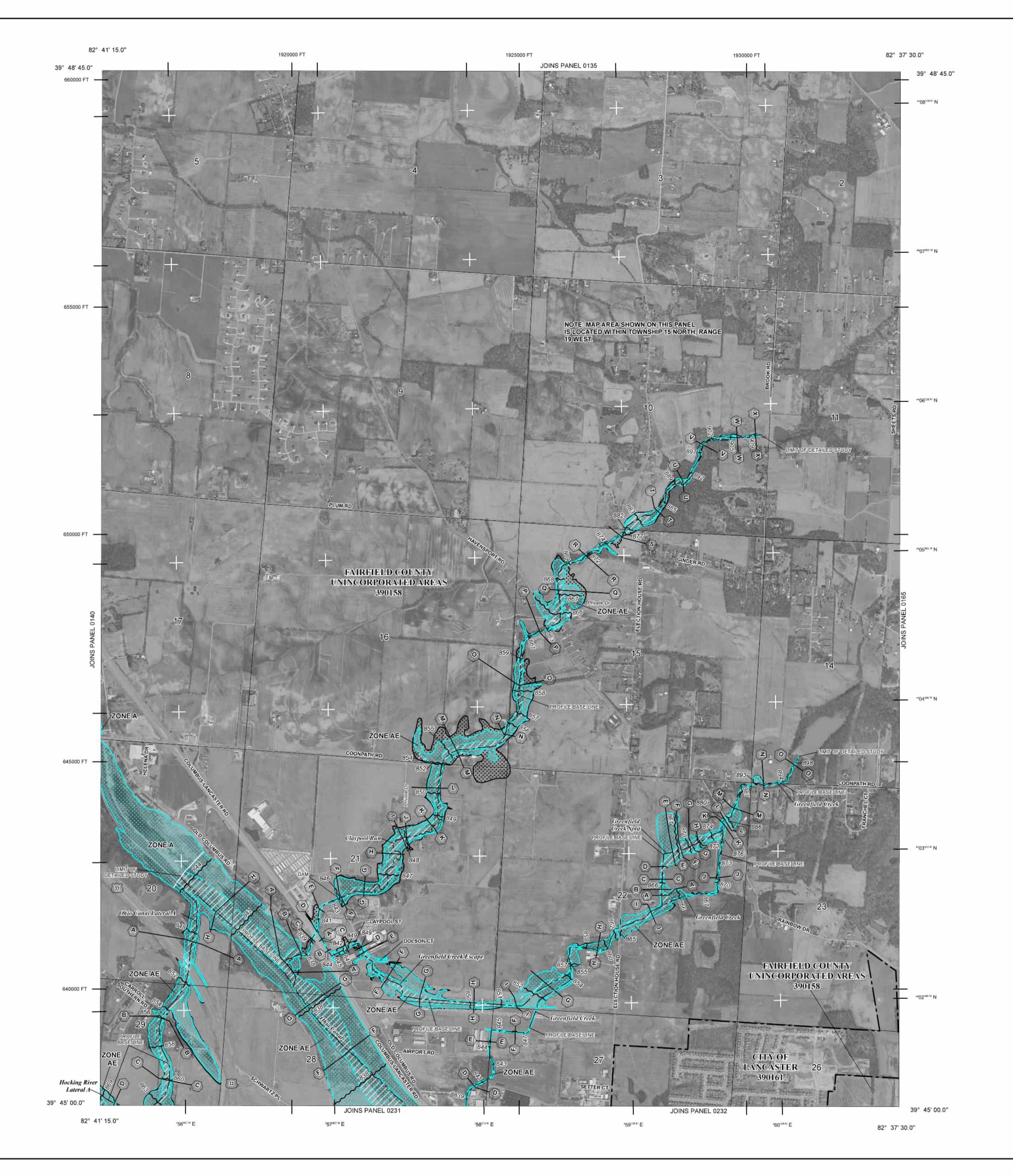
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PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

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No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined. ZONE AH

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

> Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE AR

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

Areas determined to be outside of the 0.2% annual chance floodplain.

ZONE X

Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different

Base Flood Elevations, flood depths or flood velocities. 513 Base Flood Elevation line and value; elevation in feet*

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Cross section line

(22) -----(23) Geographic coordinates referenced to the North American

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5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of KA0015 .

MAP REPOSITORY Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

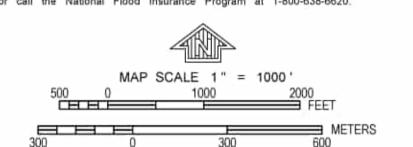
January 6, 2012

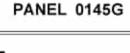
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 145 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY

NUMBER PANEL SUFFIX 390158 0145 G 390161 0145 G FAIRFIELD COUNTY LANCASTER, CITY OF

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39045C0145G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

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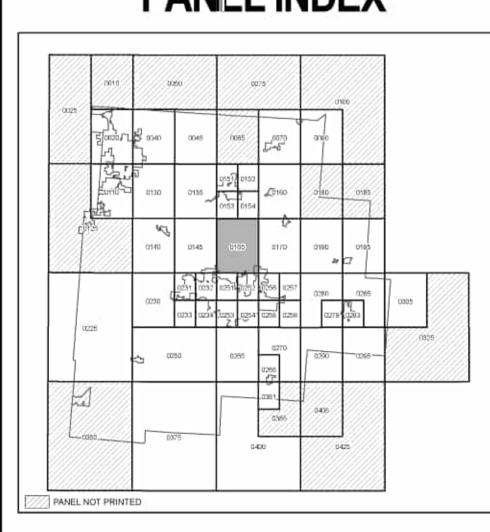
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PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

Elevations determined. ZONE AO

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

Area to be protected from 1% annual chance flood event by a Federal

flood protection system under construction; no Base Flood Elevations Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

ZONE AR

ZONE V

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different

Base Flood Elevations, flood depths or flood velocities. 513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

Cross section line

(22) - - - - - (23)

Geographic coordinates referenced to the North American 85"03'45.0", 41" 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere

4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of KA0015 .

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

January 6, 2012 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance

agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'

FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

PANEL 0165G

AND INCORPORATED AREAS

PANEL 165 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY FAIRFIELD COUNTY LANCASTER, CITY OF

NUMBER PANEL SUFFIX

390158 0165 G 390161 0165 G

Notice to User. The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0165G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

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To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for

The projection used in the preparation of this map was Ohio State Plane South Zone 5001 (FIPSZONE 3402). The horizontal datum was NAD83. Differences in datum, spheroid, projection or state plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

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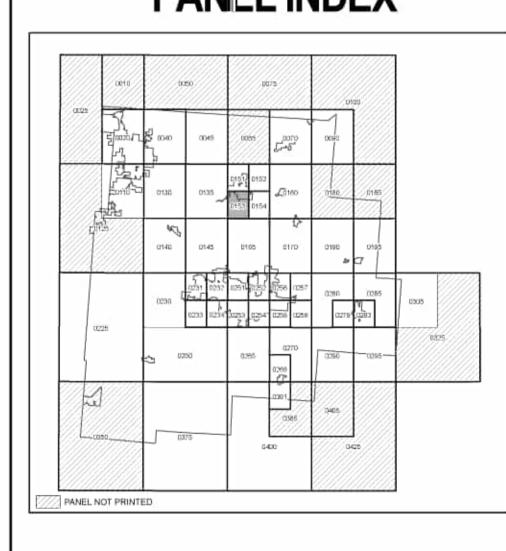
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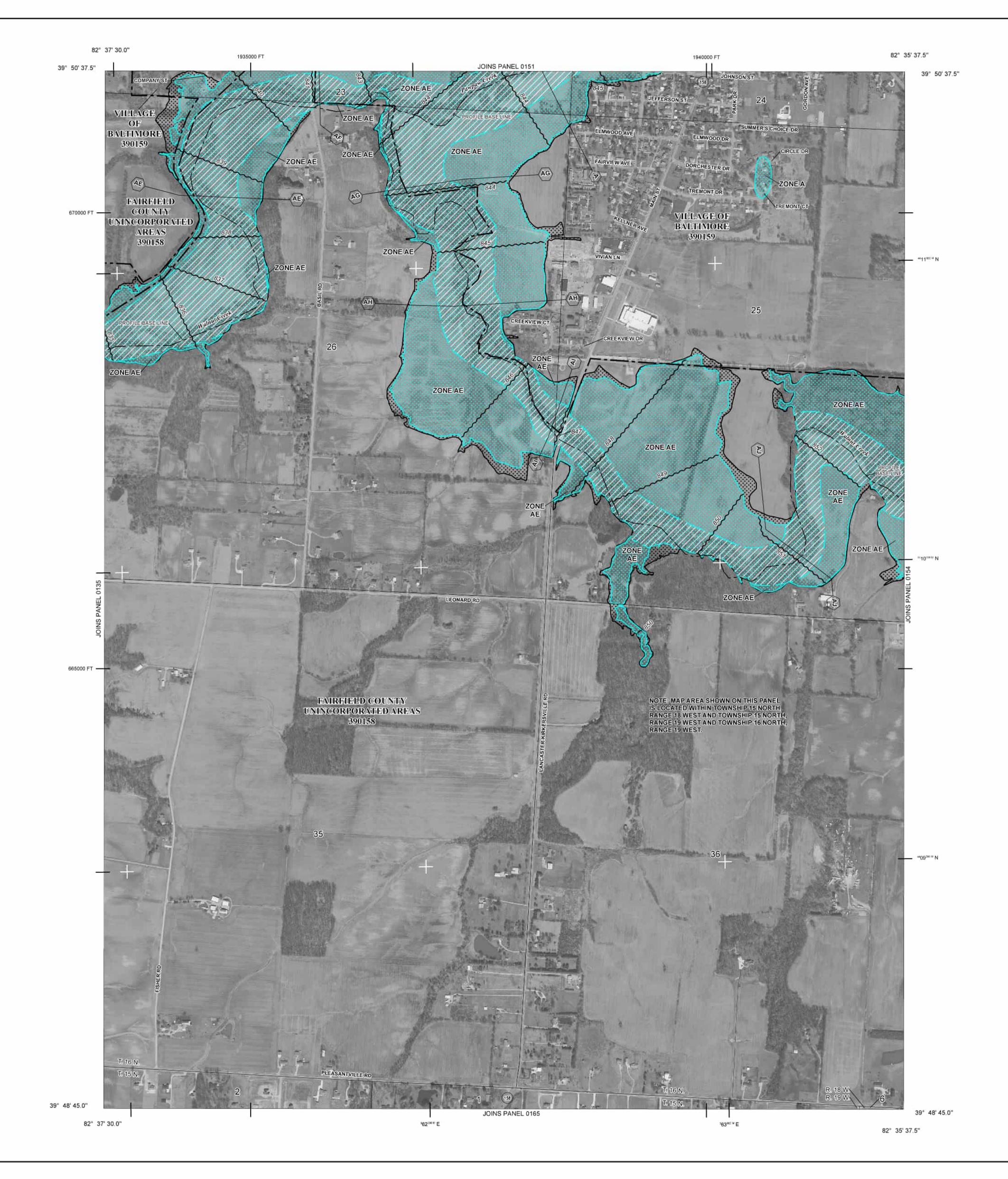
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If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.

The profile base lines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

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No Base Flood Elevations determined.

Elevations determined.

ZONE AE Base Flood Elevations determined. ZONE AH

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. ZONE AO

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is

Area to be protected from 1% annual chance flood event by a Federal

being restored to provide protection from the 1% annual chance or

flood protection system under construction; no Base Flood Elevations Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

ZONE AR

ZONE V

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different

Base Flood Elevations, flood depths or flood velocities. 513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone;

elevation in feet* *Referenced to the North American Vertical Datum of 1988

Cross section line

(22) -----(23)

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5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of KA0015 .

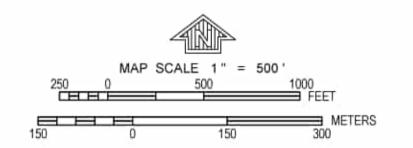
MAP REPOSITORY Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

January 6, 2012 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 153 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

FAIRFIELD COLINTY

COMMUNITY

NUMBER PANEL SUFFIX BALTIMORE, VILLAGE OF 390159 0153 G 390158 0153 G

Notice to User. The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0153G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

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Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for

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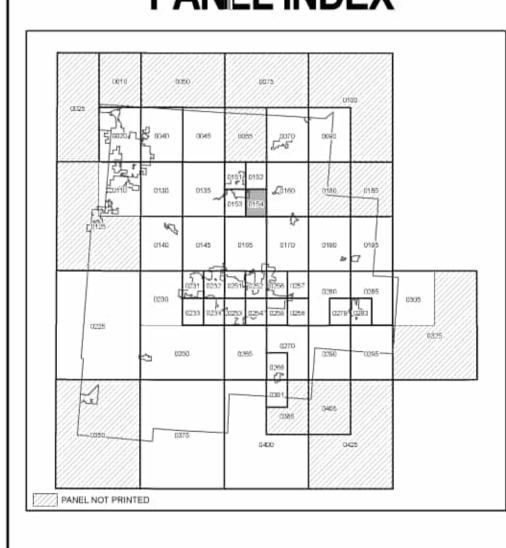
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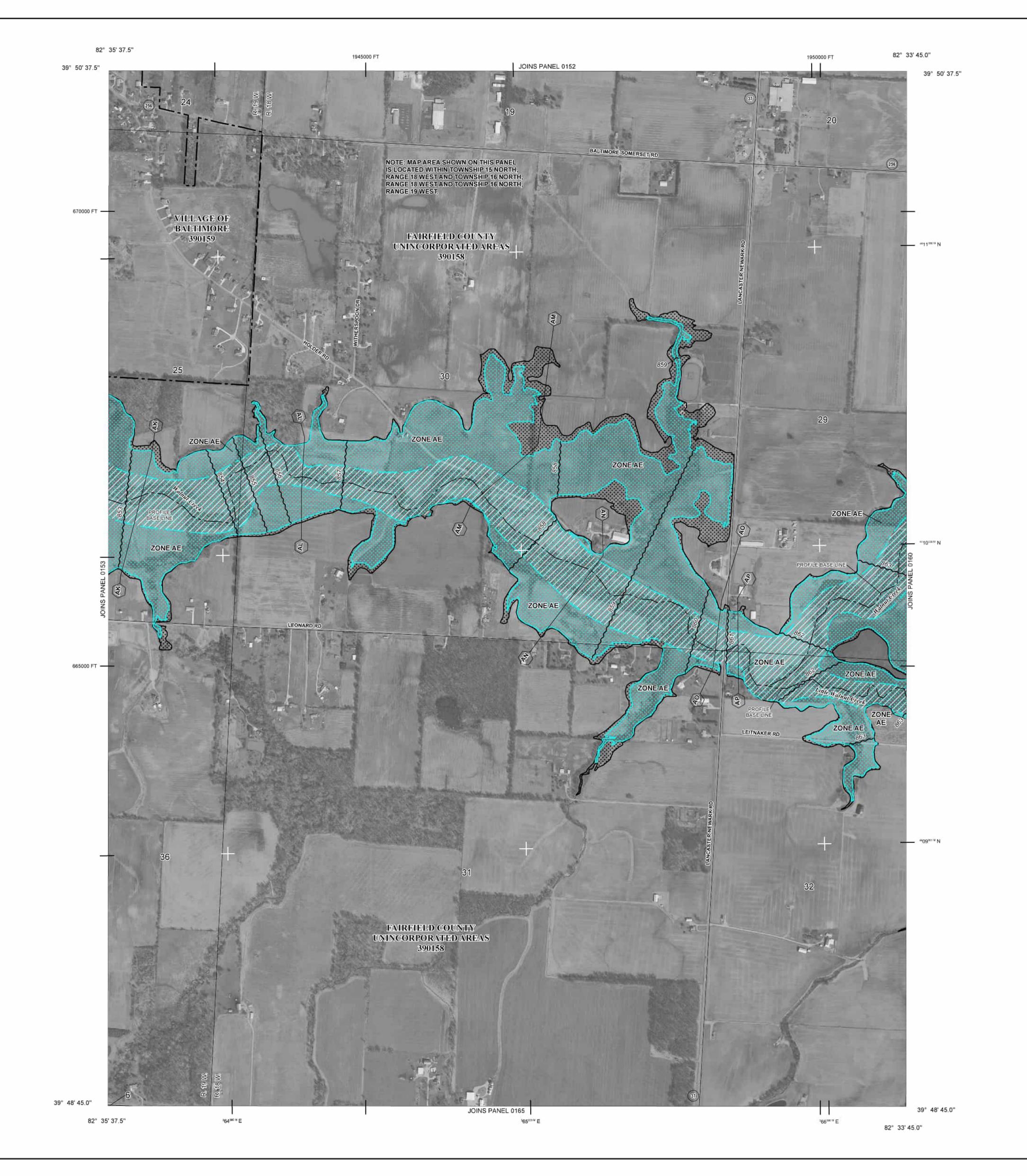
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PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. ZONE AO

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

being restored to provide protection from the 1% annual chance or

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

OTHER AREAS

ZONE AR

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

Cross section line

(22) - - - - - (23)

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4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17 5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of KA0015 .

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

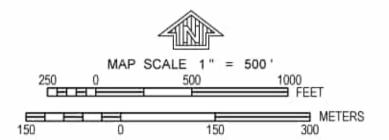
January 6, 2012

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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To determine if flood insurance is available in this community, contact your insurance

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PANEL 0154G

FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 154 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY BALTIMORE, VILLAGE OF FAIRFIELD COLINTY

390159 0154 G 390158 0154 G

NUMBER PANEL SUFFIX

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0154G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

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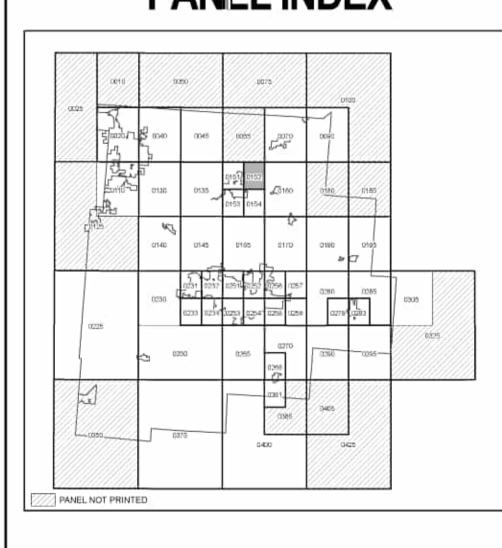
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PANEL INDEX





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ZONE AE Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

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Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

OTHER AREAS

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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> 0.2% annual chance floodplain boundary Floodway boundary

> > Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

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Base Flood Elevation value where uniform within zone;

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*Referenced to the North American Vertical Datum of 1988 Cross section line

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Datum of 1983 (NAD 83), Western Hemisphere 4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of

KA0015

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

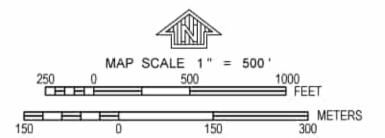
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EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 152 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY NUMBER PANEL SUFFIX

BALTIMORE, VILLAGE OF 390159 0152 G 390158 0152 G FAIRFIELD COLINTY

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0152G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER