Letter of Notification Crooksville-North Newark 138 kV Transmission Line Adjustment Project (North Newark-Newark Center)



BOUNDLESS ENERGY"

PUCO Case No. 22-0964-EL-BLN

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

Submitted by: AEP Ohio Transmission Company, Inc.

December 8, 2022

Letter of Notification

AEP Ohio Transmission Company, Inc. Crooksville-North Newark 138 kV Transmission Line Adjustment Project

4906-6-05

AEP Ohio Transmission Company, Inc. (the "Company") provides the following information in accordance with the requirements of Ohio Administrative Code Section 4906-6-05.

4906-6-05(B) General Information

B(1) Project Description

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

The Company proposes the Crooksville-North Newark 138 kV Transmission Line Adjustment Project (North Newark-Newark Center) (the "Project"), located in Newark Township in Licking County, Ohio. The Project involves adjusting approximately 0.4 miles of the previously approved Crooksville-North Newark 138 kV Transmission Line (Case No. 21-0852-EL-BLN) outside of the North Newark Station. Adjustments to the locations of structures and realignment of the previously approved centerline are required due to foundation design issues identified during construction. The Project will not require any additional right-of-way ("ROW). **Figure 1** and **Figure 2** in **Appendix A** show the location of the Project in relation to the approved Crooksville-North Newark 138 kV line and surrounding vicinity.

The Project meets the requirements for a LON because it is within the types of projects defined by item 2(a) of Ohio Administrative Code Section 4906-1-01 Appendix A of the Application Requirement Matrix For Electric Power Transmission Lines:

- (2) New construction, extension, or relocation of single or multiple circuit electric power transmission line(s), or upgrading existing transmission or distribution line(s) for operation at a higher transmission voltage, as follows:
 - a. *Line(s)* greater than 0.2 miles in length but not greater than two miles in length.

The Project has been assigned PUCO Case No. 22-0964-EL-BLN.

B(2) Statement of Need

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

The Project involves an adjustment in the alignment of an approximately 0.4 mile section of the Crooksville-North Newark 138 kV Transmission Line. The need of the Project remains the same as what was reported in OPSB Case No. 21-0852-EL-BLN.

Letter of Notification for Crooksville-North Newark 138 kV Transmission Line Adjustment Project

The Company proposes the Crooksville-North Newark 138kV Transmission Line Rebuild (North Newark-Newark Center) Project, which involves rebuilding approximately 8.3 miles of transmission line between AEP's North Newark and Newark Center stations. This Project is a section of the Crooksville –North Newark 138kV rebuild project and the remaining portion of the line from Newark Center station to Crooksville will be filed in a separate application to be consistent with environmental permitting. The 31.6 mile Crooksville – North Newark 138 kV project is wood pole construction from 1951 with 85% of the structures from the original vintage. The remaining poles were replaced between 1963-1973. All of the original conductors remain from 1951. This 31.6 mile line has 338 open conditions, including pole rot, insect damage, damaged conductor, and missing or broken ground and guy wires. There have been two permanent and one momentary outages on this line over the past five years. The Project is required to rebuild the line due to performance, condition, and risk.

There are two distribution delivery points (AEP's Isabella Station and a future Buckeye delivery point) to be served from this line, feeding a total load of 7.5 MW. Failure to move forward with this project will diminish the ability to serve these planned loads, exposing customers served from these proposed stations to outages as the line continues to deteriorate. This line is the only 138 kV line in the area; considering the location of the requested station connection points, retirement of the 138 kV line is not practical.

The need and solution for this Project was presented to PJM on 06/17/2019 and 12/18/2019, then subsequently assigned a PJM # of s2160. The Project was listed in the 2021 AEP Ohio Long-Term Forecast Report, page 78 (Form FE-T7, Characteristics of Existing Transmission Lines), see Appendix B.

B(3) Project Location

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

The Project is located in Licking County, Ohio. **Figures 1** and **2** in **Appendix A** show the location of the proposed Project in relation to the existing 138 kV transmission lines.

B(4) Alternatives Considered

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

The adjustment of the previously approved Crooksville-North Newark 138 kV Transmission Line Rebuild Project (North Newark-Newark Center) will occur within the existing transmission line ROW. No new ROW will be acquired as part of the centerline adjustment, and no additional landowners will be impacted. One new structure is being added to the centerline route. No additional alternatives were considered as a result of the de minimis centerline and structure shifts. The resulting realignment meets the need of the Project while maintaining the most suitable and least impactful alignment.

B(5) Public Information Program

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

The Company will inform affected property owners and tenants about this Project through several different mediums. Within seven days of filing this LON, the Company will issue a public notice in a newspaper of general circulation in the Project area. The notice will comply with all requirements of Ohio Administrative Code ("OAC") Section 4906-6-08(A)(1-6). Further, the Company will mail a letter, via first class mail, to affected landowners, tenants, contiguous owners and any other landowner the Company may approach for an easement necessary for the construction, operation, or maintenance of the Project. The letter will comply with all requirements of OAC Section 4906-6-08(B). The Company maintains a website (http://aeptransmission.com/ohio/) which provides the public access to an electronic copy of this LON and the public notice for this LON. An electronic copy of the LON will be served to the public library in each political subdivision for this Project. The Company retains ROW land agents that discuss Project timelines, construction and restoration activities and convey information to affected owners and tenants throughout the Project.

B(6) Construction Schedule

The applicant shall provide an anticipated construction schedule and proposed in-service date of the project.

The previously approved Crooksville-North Newark 138 kV Transmission Line Rebuild Project (Case No. 21-0852-EL-BLN) began construction in April 2022 and the anticipated in-service date is December 2024. Construction of the adjustment Project is planned to begin in February 2023.

B(7) Area Map

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

Figure 1 in **Appendix A** provides the proposed Project area on a map of 1:24,000-scale (1-inch equals 2,000 feet) and provides the location of the approximately 0.45-mile long existing North Newark - Newark 138 kV transmission line on the United States Geological Survey (USGS) 7.5-minute topographic map of the Newark, Ohio quadrangle. **Figure 2** shows the Project area on ESRI World Imagery at a scale of 1:1,200-scale (1-inch equals 100 feet). The ESRI World Imagery is dated October 2020.

To visit the Project site from Columbus, Ohio, take I-670 East for approximately 4.6 miles and continue onto US-62 East for 0.2 miles. Take exit on the left towards I-270 North and keep right at the fork to continue onto Exit 10B, following signs for OH-161/ Easton Wy and merge onto I-270 North (1.6 miles). Then take Exit 30 for OH-161 East/New Albany and merge onto OH-161 East for 19.4 miles. OH-161 becomes OH-37, continue onto OH-37 East for 4.1 miles. OH-37 becomes OH-16, continue onto OH-16 East for 6.4 miles and then take the OH-13 Exit toward Hudson Ave/4th Street. From OH-13 South/Mt Bernon Road, turn left onto OH-13 South/Mount Vernon Road and continue for 2.2 miles, then turn right onto Waterworks Road. In 0.2. miles, turn left to the access road for North Newark Station. The

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approximate address of the North Newark Station is 79 Waterworks Road Newark, OH 43055, at latitude 40.08879, longitude -82.41587.

B(8) Property Agreements

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

The Project area is located within existing right-of-way (ROW). No new permanent ROW is necessary.

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
5426992200000	Supplemental Easement	Yes
5426991600000	Supplemental Easement	Yes
5427067800001	Supplemental Easement	Yes
5426988600000	Supplemental Easement	Yes
5427067800000	Supplemental Easement	Yes
5427067800005	Supplemental Easement	Yes

B(9) Technical Features

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

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

The Crooksville-North Newark 138 kV Transmission Line Adjustment Project is estimated to include the following:

Voltage:	138-kV
Conductors:	RIGHT - (3) 795 kcmil 26/7 Strands DRAKE ACSR
	LEFT - (6) 556.5 kcmil 26/7 Strands DOVE ACSR
Static Wire:	(2) 159 kcmil 12/7 Strands GUINEA ACSR
Insulators:	Polymer
ROW Width:	100' ROW Width
Structure Types:	(1) One double circuit, steel monopole dead-end

B(9)(b) Electric and Magnetic Fields

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

Not applicable. No occupied residences or institutions are located within 100 feet of the Project.

B(9)(c) Project Cost

The estimated capital cost of the project.

The capital cost estimate for the proposed Project, which is comprised of applicable tangible and capital costs, is approximately \$787,000. Pursuant to the PJM OATT, the costs for this Project will be recovered in the AEP Ohio Transmission Company's FERC formula rate (Attachment H-20 to the PJM OATT) and allocated to the AEP Zone.

B(10) Social and Economic Impacts

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

B(10)(a) Land Use Characteristics

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

An aerial photograph of the Project vicinity is provided as **Figure 2**. The Project location and vicinity have historically been primarily woodlots with some disturbed industrial lands. The Project is mapped within Newark Township in Licking County. The Project is located within existing ROW, surrounded by forested land, with lesser amounts of industrial land use.

B(10)(b) Agricultural Land Information

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

The Licking County Auditor maintains an online database of agricultural district land in Franklin, Madison, and Newark Townships. No Agricultural District lands are located within the Project area. The Project is located within existing ROW and does not cross agricultural land, therefore no new agricultural districts or other agricultural land uses would be impacted as a result of the Project.

B(10)(c) Archaeological and Cultural Resources

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

A cultural resource survey and report were conducted by the Company's consultant for the Project in October 2020. The Company's consultant indicated in the Phase I Archaeological Investigations report that no cultural materials or above ground resources were identified during the October 2020 investigations and no further archaeological work was considered to be necessary. The Company's consultant also conducted a history/architecture investigation and identified no properties were determined to be eligible for inclusion in the National Registry of Historic Places. Correspondence from the State Historic Preservation Office

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("SHPO") was issued on November 30, 2020 (Appendix C). The SHPO stated that the Project will have no adverse effect on historic properties and that no further archaeological work is necessary.

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

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

A Notice of Intent will be filed with the Ohio Environmental Protection Agency for authorization of construction storm water discharges under General Permit OHC000005. The Company will implement and maintain best management practices as outlined in the Project-specific Storm Water Pollution Prevention Plan (SWPPP) to minimize erosion control sediment to protect surface water quality during storm events. The Company has obtained floodplain permits and is in the process of obtaining local Stormwater Pollution Prevention Plan (SWPPP) approvals from Licking County, prior to starting construction.

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

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

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

The United States Fish and Wildlife Service (USFWS) Ohio County Distribution of Federally-Listed Threatened. Endangered, Proposed. and Candidate (available Species at https://www.fws.gov/midwest/Endangered/lists/pdf/OhioCtyList29Jan2018.pdf) was reviewed to identify the threatened and endangered species known to occur in the Project counties. This USFWS publication lists the Indiana bat (Myotis sodalis; federally endangered) and northern long-eared bat (Myotis sepententrionalis; federally threatened) in the Project county. In October 2019, coordination letters were sent to USFWS and the Ohio Department of Natural Resources (ODNR) soliciting responses.

Responses were received from the USFWS on December 11, 2020 and from the ODNR on November 20, 2019 and July 1, 2022. The USFWS and Division of Wildlife (DOW) advised that the Project area occurs within the range of the state and federal endangered Indiana bat and northern long-eared bat. The USFWS and ODNR proposed implementation of seasonal tree cutting (clearing of trees \geq 3 inches diameter at breast height between October 1 and March 31) to avoid impacts to Indiana bats and northern long-eared bats, if suitable habitat occurs within the Project area. Successional hardwood woodland habitat is present within the Project and presents potentially suitable habitat for the Indiana bat and the northern long-eared bat. If seasonal tree cutting is implemented, impacts to these species are not likely. If seasonal tree cutting is not **AEP Ohio Transmission Company, Inc** Crooksville - North Newark 138 kV December 2022 **Transmission Line Adjustment Project** 22-0964-EL-BLN

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possible, ODNR requests that a net survey be conducted between June 1 and August 15, prior to cutting. Based on review of the Project area, some tree clearing and/or trimming is necessary for the Project, however, the Company anticipates clearing trees between October 1 and March 31.

The ODNR-DOW advised that the Project area occurs within the range of the sheepnose (*Plethobasus cyphyus*), a state endangered and federally endangered mussel, the fanshell (*Cyprogenia stegaria*), a state endangered and federally endangered mussel, the snuffbox (*Epioblasma triquetra*), a state endangered and federally endangered mussel, the snuffbox (*Epioblasma triquetra*), a state endangered and federally endangered mussel, the rabbitsfoot (*Quadrula cylindrica cylindrica*), a state endangered and federally threatened mussel, the Ohio pigtoe (*Pleurobema cordatum*), a state endangered mussel, the long-solid (*Fusconaia maculata maculata*), a state endangered mussel, the sharp-ridged pocketbook (*Lampsilis ovata*), a state endangered mussel, the wartyback (*Quadrula nodulata*), a state endangered mussel, the black sandshell (*Ligumia recta*), a state threatened mussel, the fawnsfoot (*Truncilla donaciformis*), a state threatened mussel, and the threehorn wartyback (*Obliquaria reflexa*), a state threatened mussel. Due to the location of the Project, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The ODNR-DOW advised that the Project area occurs within the range of the northern madtom (*Noturus stigmosus*), a state endangered fish, the paddlefish (*Polyodon spathula*) a state threatened fish, the mountain madtom (*Noturus eleutherus*), a state threatened fish, and the channel darter (*Percina copelandi*), a state threatened fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this Project is not likely to impact these species.

The ODNR -DOW advised that the project is within the range of the eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*), a state endangered species and a federal species of concern Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size to provide suitable habitat, this Project is not likely to impact this species.

The ODNR-DOW advised that the project is also within the range of the eastern spadefoot toad (*Scaphiopus holbrookii*), a state endangered species. This species is found in areas of sandy soils that are associated with river valleys. Breeding habitats may include flooded agricultural fields or other water holding depressions. Due to the location, and the type of habitat present at the project site, and within the vicinity of the Project area, this project is not likely to impact this species.

The Project is within the range of the northern harrier (*Circus cyaneus*), 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 May 15 to August 1. If this habitat will not be impacted, this project is not likely to impact this species. The Company completed a habitat assessment survey in April 2022 and submitted the findings to ODNR for review. ODNR provided concurrence of the habitat survey on July 1, 2022. The Company will comply with time of year requirements for habitat avoidance or will continue coordination with ODNR to minimize potential impacts from clearing. No additional habitat was found during additional field reviews completed in November 2022.

Additional details regarding species are provided in **Appendix C**.

AEP Ohio Transmission Company, Inc December 2022

B(10)(f) Areas of Ecological Concern

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

The Company's consultant prepared a Wetland Delineation and Stream Assessment Report for the entire 32.4 miles of the Crooksville-North Newark 138 kV transmission line rebuild, of which this Project is a part, see **Appendix D**. The ecological survey of the Crooksville-North Newark 138 kV survey corridor delineated a total of 110 wetlands, totaling 22.61 acres, 121 streams or stream segments, totaling 27,993 linear feet, and o ponds. Of those, a total of seven delineated wetlands and two delineated streams were located within the Project survey corridor totaling 2.49 acres. Five wetlands were classified as palustrine emergent (PEM), one as palustrine forested (PFO), and one as palustrine unconsolidated bottom (PUB). A total of two streams or stream segments were also delineated within the Project survey corridor, totaling 301 linear feet. Of these streams, one was identified as perennial and one as intermittent. One pond was delineated within the Project survey corridor.

No permanent impacts to the delineated wetlands are anticipated during implementation of the Project. One PEM wetland will be temporarily crossed by timber matting during construction activities. No permitting is required in association with the timber matting.

The Project crosses 100-year floodplains and floodways associated with North Fork Licking River based on Flood Map 39089C033J and Flood Map 39089C0331J from the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) datasets.

B(10)(g) Unusual Conditions

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

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

Appendix A Project Figures





Appendix B Agency Coordination

PUCO Form FE-T9 AEP Ohio Transmission Company Specifications of Planned Transmission Lines

LINE NAME AND NUMBER:	Crooksville - North Newark (s2160), TP2019150
POINTS OF ORIGIN AND TERMINATION	Crooksville, North Newark INTERMEDIATE STATION - Isabella
RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS	31.6 mi / 100 ft / 1 circuit
VOLTAGE: DESIGN / OPERATE	138 kV/ 138 kV
APPLICATION FOR CERTIFICATE:	2021
CONSTRUCTION:	2022-2023
CAPITAL INVESTMENT:	\$50M
PLANNED SUBSTATION:	N/A
SUPPORTING STRUCTURES:	Steel
PARTICIPATION WITH OTHER UTILITIES	N/A
PURPOSE OF THE PLANNED TRANSMISSION LINE	Rebuild of existing 138 kV line
CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION	Increased risk of equipment failure.
MISCELLANEOUS:	



Need Number: AEP-2019-OH030

Process Stage: Solutions Meeting 12/18/2019

Previously Presented: Need Meeting 06/17/2019

Supplemental Project Driver: Equipment Material/Condition/Performance/Risk

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs

Problem Statement:

Line:

Crooksville – North Newark (Vintage - 1952)

- Length: 30.63 Miles
- Original Construction Type: Wood
- Original Conductor Type: 266,800 CM ACSR 26/7 (Partridge)
- Momentary/Permanent Outages: 5 outages last 5 years
- Number of open conditions: 338
 - Open conditions include: Pole Rot, Insect/Bird Damage, Damaged Conductors, Ground Wires, & Guy Wires.

Model: N/A

SRRTEP-W – AEP Supplemental 12/18/2019

AEP Transmission Zone M-3 Process Crooksville – North Newark Rebuild



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AEP Transmission Zone M-3 Process Crooksville – North Newark Rebuild



Need Number: AEP-2019-OH030

Process Stage: Solutions Meeting 12/18/2019

Proposed Solution:

• Rebuild the existing 31.6-mile Crooksville - North Newark line using 795 ACSR. Estimated Cost: \$55.6M

Alternatives Considered:

No viable cost-effective alternatives were identified.

Projected In-Service: 12/1/2023

Project Status: Engineering

Ohio Department of Natural Resources



MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

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

November 20, 2019

Jason Tucker AECOM 525 Vine Street Cincinnati, Ohio 45202

Re: 19-862; Crooksville-North Newark 138 kV Transmission Line Rebuild Project

Project: The proposed project involves rebuilding approximately 31.6 miles of transmission line within an existing 100-foot right-of-way (ROW) from Crooksville, Ohio at the Crooksville Station heading northwest toward North Newark Station.

Location: The proposed project is located in Perry Township, Muskingum 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 no records at or within a onemile radius of the project area.

A review of the Ohio Natural Heritage Database indicates there are no other records of state endangered or threatened plants or animals within the project area. There are also no records of state potentially threatened plants, special interest or species of concern animals, or any federally listed species. In addition, we are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, state nature preserves, state or national parks, state or national forests, national wildlife refuges, or other protected natural areas within the project area. The review was performed on the project area you specified in your request as well as an additional one-mile radius. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although all types of plant communities have been surveyed, we only maintain records on the highest quality areas.

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 range of the Indiana bat (Myotis sodalis), a state endangered and federally endangered species. The following species of trees have relatively high value as potential Indiana bat roost trees to include: shagbark hickory (*Carva ovata*), shellbark hickory (Carya laciniosa), bitternut hickory (Carya cordiformis), black ash (Fraxinus nigra), green ash (Fraxinus pennsylvanica), white ash (Fraxinus americana), shingle oak (Quercus imbricaria), northern red oak (*Quercus rubra*), slippery elm (*Ulmus rubra*), American elm (*Ulmus* americana), eastern cottonwood (Populus deltoides), silver maple (Acer saccharinum), sassafras (Sassafras albidum), post oak (Quercus stellata), and white oak (Quercus alba). Indiana bat roost trees consists of trees that include dead and dying trees with exfoliating bark, crevices, or cavities in upland areas or riparian corridors and living trees with exfoliating bark, cavities, or hollow areas formed from broken branches or tops. However, Indiana bats are also dependent on the forest structure surrounding roost trees. If suitable habitat occurs within the project area, the DOW recommends trees be conserved. If suitable habitat occurs within the project area and trees must be cut, the DOW recommends cutting occur between October 1 and March 31. If suitable trees must be cut during the summer months, the DOW recommends a net survey be conducted between June 1 and August 15, prior to any cutting. Net surveys should incorporate either nine net nights per square 0.5 kilometer of project area, or four net nights per kilometer for linear projects. If no tree removal is proposed, this project is not likely to impact this species.

The project is within the range of the sheepnose (*Plethobasus cyphyus*), a state endangered and federally endangered mussel, the fanshell (*Cyprogenia stegaria*), a state endangered and federally endangered mussel, the snuffbox (*Epioblasma triquetra*), a state endangered and federally endangered mussel, the rabbitsfoot (*Quadrula cylindrica cylindrica*), a state endangered and federally threatened mussel, the Ohio pigtoe (*Pleurobema cordatum*), a state endangered mussel, the long-solid (*Fusconaia maculata maculata*), a state endangered mussel, the sharp-ridged pocketbook (*Lampsilis ovata*), a state endangered mussel, the black sandshell (*Ligumia recta*), a state threatened mussel, the fawnsfoot (*Truncilla donaciformis*), a state threatened mussel, and the threehorn wartyback (*Obliquaria reflexa*), a state threatened mussel. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the northern madtom (*Noturus stigmosus*), a state endangered fish, the paddlefish (*Polyodon spathula*) a state threatened fish, the mountain madtom (*Noturus eleutherus*), a state threatened fish, and the channel darter (*Percina copelandi*), a state threatened fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*), a state endangered species and a federal species of concern Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size to provide suitable habitat, this project is not likely to impact this species.

The project is also within the range of the eastern spadefoot toad (*Scaphiopus holbrookii*), a state endangered species. This species is found in areas of sandy soils that are associated with river valleys. Breeding habitats may include flooded agricultural fields or other water holding

depressions. Due to the location, and the type of habitat present at the project site, and within the vicinity of the project area, this project is not likely to impact this species. The project is within the range of the northern harrier (*Circus cyaneus*), 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 May 15 to August 1. 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 U.S. Fish & Wildlife Service.

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

The local floodplain administrator should be contacted concerning the possible need for any floodplain permits or approvals for this project. Your local floodplain administrator contact information can be found at the website below.

http://water.ohiodnr.gov/portals/soilwater/pdf/floodplain/Floodplain%20Manager%20Community %20Contact%20List_8_16.pdf

ODNR appreciates the opportunity to provide these comments. Please contact Sarah Tebbe, Environmental Specialist, at (614) 265-6397 or <u>Sarah.Tebbe@dnr.state.oh.us</u> if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator (Acting)



In reply, refer to 2020-LIC-49910

June 28, 2021

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

RE: North Newark- Newark Center 138Kv Rebuild Project, Knox and Licking Counties, Ohio – Access Roads

Dear Mr. Weller:

This letter is in response to the correspondence received on June 22, 2021 regarding the proposed access roads associated with the North Newark-Newark Center 138Kv Rebuild Project, Knox and Licking Counties, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the letter report titled *Cultural Resource Management Addendum Investigations for Proposed* Access Roads Associated with the North Newark-Newark Center 138kV Rebuild Project in Knox and Licking Counties, Ohio by Ryan J. Weller (Weller & Associates, Inc., 2021).

A literature review, visual inspection, and subsurface excavation was completed as part of the investigations. One (1) previously identified archaeological site is located within the addendum project area. Ohio Archaeological Inventory (OAI)# 33LI0263 was not reidentified during fieldwork and the area has been disturbed since the site was originally identified in 1984. One (1) new archaeological sites were identified during survey; OAI# 33LI2721. The site is not recommended eligible for listing in the National Register of Historic Places (NRHP). Our office agrees with this recommendation and no further archaeological survey is necessary.

Based on the information provided, we continue to agree that the project as proposed will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional historic properties are discovered during implementation of this project. In such a situation, this office should be contacted. If you have any questions, please contact me at (614) 298-2022, or by e-mail at <u>khorrocks@ohiohistory.org</u>. Thank you for your cooperation.

Sincerely,

Krista Horrocks, Project Reviews Manager Resource Protection and Review

RPR Serial No: 1089057

From:Ohio, FW3 <ohio@fws.gov>Sent:Friday, December 11, 2020 3:14 PMTo:Hanner, AudreyCc:nathan.reardon@dnr.state.oh.us; Parsons, KateSubject:[EXTERNAL] AEP Crooksville-North Newark 138 kV Transmission Line Rebuild, Perry/Muskingum/Licking Counties, Ohio



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



TAILS# 03E15000-2021-TA-0439

Dear Ms. Hanner,

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

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

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule (see http://www.fws.gov/midwest/endangered/mammals/nleb/index.html), incidental take of Indiana bats is still prohibited without a project-specific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present.

If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats. If Indiana bats are not detected during the survey, then tree clearing may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

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

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

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

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,

Patrice Ashfield Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Kate Parsons, ODNR-DOW

Buchanan, Becky

From:	Amy J Toohey <ajtoohey@aep.com></ajtoohey@aep.com>
Sent:	Friday, July 1, 2022 3:42 PM
То:	Buchanan, Becky; Luz A Cohmer
Subject:	[EXTERNAL] FW: AEP North Newark to Newark Center Absence/Presence report ODNR Number 19-862
Follow Up Flag:	Flag for follow up
Flag Status:	Flagged

Greetings:

Below is ODNR approval on North Newark to Newark Center.

Thanks Amy

-----Original Message-----From: Nathan.Reardon@dnr.ohio.gov <Nathan.Reardon@dnr.ohio.gov> Sent: Friday, July 1, 2022 3:15 PM To: Amy J Toohey <ajtoohey@aep.com> Cc: Alicia M Cross <amcross@aep.com> Subject: [EXTERNAL] RE: AEP North Newark to Newark Center Absence/Presence report ODNR Number 19-862

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments. If suspicious please click the 'Report to Incidents' button in Outlook or forward to incidents@aep.com from a mobile device.

Hi Amy,

The DOW concurs with the findings of the report. No further coordination regarding the northern harrier is necessary. Work can begin as soon as possible.

Thank you, Nathan

Nathan Reardon Compliance Coordinator ODNR Division of Wildlife 2045 Morse Road Columbus, OH 43229 Phone: 614-265-6741 Email: nathan.reardon@dnr.ohio.gov

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Please consider the environment before printing this email.

Appendix C Wetland Delineation and Stream Assessment Report

CROOKSVILLE-NORTH NEWARK 138KV TRANSMISSION LINE REBUILD PROJECT ADDENDUM 3 – CROOKSVILLE-NORTH NEWARK ACCESS ROADS

LICKING, MUSKINGUM, AND PERRY COUNTIES, OHIO

ADDENDUM WETLAND DELINEATION AND STREAM ASSESSMENT REPORT #3

Prepared for:

American Electric Power Ohio Transmission Company 8600 Smiths Mill Road New Albany, Ohio 43054



Prepared by:



525 Vine Street, Suite 1800 Cincinnati, Ohio 45202

Project #: 60616110, 60618779, 60616126

October 2022

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1.0 INTRODUCTION

American Electric Power Ohio Transmission Company (AEP Ohio Transco) is proposing to rebuild the existing 138 kV line between Crooksville and North Newark Stations in Perry, Muskingum, and Licking Counties, Ohio (Project). The full rebuild will be approximately 32.4 miles in length. Since the completion of the original wetland delineation and stream assessment report, and the addendum report for proposed access roads between North Newark substation and Newark Center substation, AEP Ohio Transco required the survey of two additional, off right-of-way (ROW) access roads and to reassess the jurisdictional status of Wetland 105a and Wetland 105b. AEP Ohio Transco retained AECOM Technical Services, Inc. (AECOM) to survey a 25-foot buffer of the proposed access roads and reassess Wetland 105a and Wetland 105b within the expanded survey area (Figure 1). Results of the field survey are included within this report.

Originally delineated features associated with the Project have been provided in the *Crooksville-North Newark 138 kV Transmission Line rebuild Project – June 2021* (June 2021 – Report), the Crooksville-North Newark 138 kV Transmission Line rebuild Project Addendum 1 – North Newark-Newark Center Access Roads – August 2021 (August 2021 – Report / Addendum 1 - Report), the Crooksville-North Newark 138 kV Transmission Line rebuild Project Addendum 2 – North Newark-Newark Center Access Roads – January 2022 (January 2022 – Report / Addendum 2 – Report) within the text and tables. Previously identified feature data forms, photographs, and supporting information of the previous surveys for the Project are contained within the June 2021 – Report, August 2021 – Report, and the January 2022 - Report and are not provided in this addendum report.

This addendum wetland delineation and stream assessment report includes the results (data forms, photographs, and updated figures) associated with wetlands and/or streams identified within the two proposed off-ROW access roads and the expanded survey area associated with Wetland 105a and Wetland 105b (Addendum 3 Project survey corridor). The Addendum 3 Project survey corridor is approximately 5.28 acres in size. Due to potential overlap between the new and previously delineated features, the extent of delineated features and survey corridors (new and previously identified) are displayed on the attached figures.

2.0 METHODOLOGY

A comprehensive methodology of the field surveys and data reviews completed for this report are included within the June 2021 – Report. Therefore, a brief summary of the delineation and agency coordination methodology has been provided below.

Delineations were conducted in accordance with the procedures outlined in the U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual (1987 Manual) (Environmental Laboratory, 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountain and Piedmont Region (Version 2.0) (EMP Regional Supplement) (USACE, 2012). In addition, any wetlands

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were classified using the Ohio Environmental Protection Agency (OEPA) Ohio Rapid Assessment Method for Wetlands v. 5.0 (ORAM; Mack, 2001). Stream assessments were conducted using the methods described in the OEPA's Methods for Assessing Habitat in Flowing Waters: Using OEPA's Qualitative Habitat Evaluation Index (Rankin, 2006) and in the OEPA's Field Methods for Evaluating Primary Headwater Streams in Ohio (OEPA, 2020).

Initial coordination letters from the U.S. Fish and Wildlife Service (USFWS) and Ohio Department of Natural Resources (ODNR) were received in December 2020 and November 2019, respectively. Correspondence letters from the USFWS and ODNR for the 32.2-mile Crooksville-North Newark 138 kV transmission line is included in the June 2021 – Report.

3.0 RESULTS

In October and November 2022, AECOM ecologist walked the Addendum 3 Project survey corridor to conduct the wetland delineation, stream assessment and habitat survey. Within the 5.28-acre Addendum 3 Project survey corridor ,no new wetland or streams were identified. However, the boundary of Wetland 105a was expanded.

3.1 WETLAND DELINEATION

3.1.1 Preliminary Soils Evaluation

Soils were observed and documented as part of the delineation methodology. No new additional soil map units were identified within the Addendum 3 Project survey corridor.:

An updated table of soil map units identified within the entire Project survey corridor is provided in the January 2022 - Report.

3.1.2 National Wetland Inventory Map Review

According to the NWI data covering the Project location, the Addendum 3 Project survey corridor contained one mapped NWI wetlands. A summary of NWI-mapped wetlands occurring in the Addendum 3 Project survey corridor are presented in Table 1, below.

TABLE 1 – NWI DISPOSITION SUMMARY TABLE WITHIN THE ADDENDUM 3 PROJECT SURVEY AREA

NWI Code	NWI Description	Related Field Inventoried Resource (Wetland ID/Stream ID)	Comments	
PFO1A	Palustrine, Forested, Broad-Leaved Deciduous, Temporary Flooded	Wetland 105a	Wetland 105a continues outside of the study corridor into the mapped NWI wetland	

The locations of the mapped NWI wetlands within the Addendum 2 Project survey corridor are illustrated on Figure 2.

3.1.3 Delineated Wetlands

During the October 2022 and November 2022 field survey, AECOM did not identify any new wetlands during the Addendum 3 Project Survey Area. However, the boundary of Wetland 105a was changed within the expanded Addendum 3 Project Survey Area. The modified boundary of Wetland 105a is provided on **Figure 3**.

AECOM has changed the provisional isolated determination of Wetland 105a to now be jurisdictional (nonisolated, i.e., WOTUS) based on its proximity to North Fork Licking River. Final jurisdictional status can only be determined by the USACE, and AECOM assessments are provisional. The location and approximate extent of Wetland 105a identified within the Addendum 3 Project Survey Area is shown on **Figure 3**. Details for the wetland within in the Addendum 3 Project Survey Area are provided in **Table 3**. Completed USACE data forms, ORAM forms, and photographs of the wetland are provided in **Appendix A**.

TABLE 2 - SUMMARY OF DELINEATED WETLANDS WITHIN THE CROOKSVILLE-NORTH NEWARK 138 KV TRANSMISSION LINE REBUILD ADDENDUM 3 PROJECT SURVEY AREA

Watland ID	Location		la a lata d2	Habitat	Delineated	ORAM		Nearest Structure #	Existing Structur	Proposed Structure	Structure	Proposed Impacts	
wetland ID	Latitude	Longitude	ISOlated ?	Туре	(acre)	Score	Category	(Existing / Proposed)	e # in Wetland	# in Wetland	Method	Temporary Matting Area (acre)	Permanent Impact Area (acre)
Wetland 105a	40.095423	-82.415010	No	PFO	1.26	41	2	215	None	None	TBD	N/A	N/A

3.2 DELINEATED STREAMS

During the October 2022 field survey, AECOM did not identify any new streams within the Addendum 3 Project survey corridor.

3.2.1 OEPA STREAM ELIGIBILITY

OEPA stream eligibility for 401 Water Quality Certification mapping was reviewed for all of the field identified streams. No new sub watersheds were crossed by the Addendum 3 Project Survey Area. A list of all watersheds within the entire Project survey corridor is provided in Table 5 of the June 2021 – Report and Eligibility status for each stream is listed in the Project Stream Table in Appendix C of the January 2022 - Report. OEPA stream eligibility mapping for the Project vicinity, with field identified streams, is provided on Figure 4.

3.3 PONDS

No new ponds were identified within the Addendum 2 Project survey corridor. For ponds identified within the original survey corridor see June 2021 – Report.

3.4 VEGETATIVE COMMUNITIES WITHIN THE PROJECT SURVEY CORRIDOR

AECOM ecologists conducted a general habitat survey in conjunction with the stream and wetland field surveys for the Addendum 3 Project Survey Area. Habitat types within the Addendum 3 Project Survey Area are included agricultural land, young to mature woodland forests, old field, stream/wetland areas, and urban areas. Habitat descriptions, applicable to the Addendum 3 Project Survey Area are provided below in Table 4. Representative photos of the vegetative communities in the Addendum 3 Project Survey Area are provided in Appendix E. Vegetated land cover is illustrated on aerial photography provided on Figure 5.

TABLE 3- VEGETATIVE COMMUNITIES WITHIN THE ADDENDUM 3 PROJECT SURVEY AREA

Vegetative Community	Description	Approximate Acreage Within the Project Survey Corridor	Approximate Percentage Within the Project Survey Corridor
Agricultural	Agricultural lands being utilized for row-crop production and associated activities, typically devoid of vegetation outside of the target crop and opportunistic/invasive species.	0.66	12.5%
Forested Land	Successional mixed hardwood woodlands are present along the Project survey corridor. Woody species dominating these areas included American elm (Ulmus americana), sugar maple (Acer saccharum), red maple (Acer rubrum), white oak (Quercus alba), red oak (Quercus rubra), black cherry (Prunus serotina), and shagbark hickory (Carya ovata). The dominant shrub-layer species included Morrow's honeysuckle (Lonicera morrowii), sugar maple, and blackberry (Rubus occidentalis).	0.42	8.0%
Old Field	Herbaceous cover exists alongside roads, field borders, and abandoned fields within the survey corridor of the Project in the form of successional old-field communities. These communities are the earliest stages of recolonization by plants following disturbance. This community type is typically short-lived, giving way progressively to shrub and forest communities unless periodically re-disturbed, in which case they remain as old fields. The old-field areas within the study corridors and adjacent areas are infrequently mowed areas of grasses, forbs, and occasional shrubs.	1.47	27.8%
Urban	Urban areas are areas developed with residential and commercial land uses, including roads, buildings and parking lots. These areas are generally devoid of significant woody and herbaceous vegetation.	1.47	27.8%
Streams/Wetlands	Streams and wetlands were observed both within and beyond the survey corridor for the Project.	1.26	23.9%
Totals:		5.28	100%

3.5 RARE, THREATENED AND ENDANGERED SPECIES AGENCY COORDINATION

Protected Species Agency Consultation -

Correspondence with USFWS and ODNR for state and federal listed species was conducted as part of the original project and agency letters are included within the June 2021 - Report. AECOM reviewed the previous correspondences with the USFWS and ODNR to identify the potential presence of listed species and/or their habitat within the new work areas associated with the Project. Based on the due-diligence review, the Addendum 3 Project Survey Area includes potentially suitable habitat for the state and federally threatened Indiana bat, the state and federally threatened northern long-eared bat, the state endangered little brown bat, and the state endangered tri-colored bat. One forested area in the Addendum 3 Project Survey Area appears to provide potentially suitable habitat for all listed bat species. USFWS recommends that any clearing of trees greater than three inches diameter breast height (dbh) be conducted between October 1 and March 31 to avoid potential impacts to the species.

The initial review and response from the USFWS and ODNR were associated with the entire extent of the survey corridor associated with the original Project area as described in the June 2021 – Report. As the areas included within this addendum are located within and around the Project area submitted to the agencies, the previous agency correspondence and recommendations are considered valid for these additional areas. As these areas do not display the habitat to support the remaining federal and/state-listed species, it is assumed that the Project would no effect on the additional listed species.

4.0 SUMMARY

This addendum includes wetland delineation and stream assessment results of the proposed off-ROW access roads and the expanded survey area associated with Wetland 105a and Wetland 105b(Addendum 3 Project Survey Area) in Licking, County Ohio. Previously Identified wetlands and streams are not included in this Addendum Report.

As a result of the October 2022 and November 2022 survey of the Addendum 3 Project Survey Area, no new wetlands or streams were identified. However, one wetland, Wetland 105a, was expanded and the provisional determination was changed from isolated to potentially jurisdictional.

The results of the ecological survey conducted by AECOM in October 2022 and November 2022, and the results provided in this Project Addendum 3, are limited to the areas within the Addendum 3 Project Survey Area provided in **Figure 3**: Wetland Delineation and Stream Assessment Map. Areas that fall outside of the Project survey corridor were not evaluated in the field and are not included in the reporting of this survey.

The information contained in this wetland delineation report is for a study area that may be much larger than the actual Project limits-of-disturbance; therefore, lengths and acreages listed in this report may not constitute the actual impacts of the Project defined in subsequent permit applications. If necessary, a separate report that identifies the actual Project impacts will be provided with agency submittals.

The field survey results presented herein apply to the existing and reasonably foreseeable site conditions at the time of our assessment. They cannot apply to site changes of which AECOM is unaware and has not had the opportunity to review. Changes in the condition of a property may occur with time due to natural processes or human impacts at the project site or on adjacent properties. Changes in applicable standards may also occur as a result of legislation or the expansion of knowledge over time. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond the control of AECOM.

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APPENDIX A

U.S. Army Corps of Engineers Wetland Data Forms/OEPA Wetland ORAM Forms/Delineated Features Photographs

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Crooksville-North Newark 138 kV Tranmission Line	City/County: Licking Cour	nty		Sampling Date:	11/1/2022
Applicant/Owner: AEP		State:	ОН	Sampling Point:	Wetland 105a
Investigator(s): JMH, RLP	Section, Township, Range:	Q SW T	2N R11W	I	
Landform (hillside, terrace, etc.): Flat	Local relief (conca	ave, conve	x, none):	None	
Slope (%): 1 Lat: 40.095648	Long: <u>-82.415064</u>			Datum: NAD83	
Soil Map Unit Name: <u>St</u>		N	WI classi	fication: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes <u>X</u> N	o	(If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circur	mstances"	present?	Yes <u>X</u> No	٥ <u> </u>
Are Vegetation, Soil, or Hydrologynaturally problem	matic? (If needed, explain	any answ	ers in Rei	marks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locati	ons, tra	nsects,	important feat	tures, etc.

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

This sample point is representative of the upland agriculture field located along the edge of a corn field.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator			
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:		ļ
1. Ulmus americana	35	Yes	FACW	Number of Dominant Species That		ļ
2				Are OBL, FACW, or FAC:	3	(A)
3.				Total Number of Dominant Species		- I
4.				Across All Strata:	3	(B)
5				Percent of Dominant Species That		ļ
	35	=Total Cover		Are OBL, FACW, or FAC:	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)						
1				Prevalence Index worksheet:		ļ
2.				Total % Cover of: Mu	Itiply by:	_ !
3.				OBL species 0 x 1 =	0	- I
4.				FACW species 75 x 2 =	150	-
5.		······································		FAC species 30 x 3 =	90	-
		=Total Cover		FACU species 0 x 4 =	0	-
Herb Stratum (Plot size: 5' radius)		-		UPL species 0 x 5 =	0	-
1. Persicaria longiseta	30	Yes	FAC	Column Totals: 105 (A)	240	(B)
2. Poa palustris	20	Yes	FACW	Prevalence Index = B/A =	2.29	- 1
3. Verbesina alternifolia	10	No	FACW	——		-
4. Impatiens capensis	10	No	FACW	Hydrophytic Vegetation Indicators	5:	
5.				1 - Rapid Test for Hydrophytic V	egetation	ļ
6				X 2 - Dominance Test is >50%	090121121	ļ
7.				$\frac{1}{X}$ 3 - Prevalence Index is $\leq 3.0^{1}$		ļ
8				4 - Morphological Adaptations ¹ (Provide sur	oporting
a		······································		data in Remarks or on a sepa	rate sheet)	, pointing
				Problematic Hydrophytic Vegeta	tion ¹ (Expla	ain)
	70	=Total Cover		¹ Indicators of hydric soil and wetland	hydrology	must
Woody Vine Stratum (Plot size: _30' radius _)				be present, unless disturbed or prob	lematic.	musi
1.				Hydrophytic		
2.				Vegetation		
		=Total Cover		Present? Yes X No		
Remarks: (Include photo numbers here or on a separ	ate sheet.)					
A manual devices of builden builden and all and a second second						

SOIL

Profile Desc	ription: (Describ	e to the depth	needed to doci	ument tl	ne indica	tor or c	onfirm the absence of	of indicators.)
Depth	Matrix		Redo	x Featur	es1	. 2	_	
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-20	7.5YR 4/2	95	7.5YR 5/6	5	С	М	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Co	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	/IS=Mas	ked Sand	l Grains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicator	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		<u>?</u> Coas	t Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iron-N	Manganese Masses (F12)
Black His	stic (A3)		Stripped N	latrix (S6	6)		Red I	Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Other	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	trix (F2)			
Depleted	l Below Dark Surfa	ce (A11)	X Depleted N	Aatrix (F	3)			
Thick Da	ark Surface (A12)		Redox Dar	rk Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted [Dark Sur	face (F7)		wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Peat (53)	Redox Dep	oression	s (F8)		unles	s disturbed or problematic.
Restrictive I	Layer (if observed	l):						
Type:		,						
Depth (ir	ches):		—				Hvdric Soil Present	? Yes X No
Demerler							,	
This data for	m is revised from M	Midwest Regio	nal Supplement \	lorgion (0 to incl	uda tha	NRCS Field Indicators	of Hydric Soils Version 7.0, 2015
Frrata, (http:	//www.nrcs.usda.g	ov/Internet/FSI	F DOCUMENTS	/nrcs142	2.010 mc	93.docx		
							/	
HYDROLO	GY							
Wetland Hy	drology Indicators							
Primary India	cators (minimum of	r. f one is require	d: check all that	apply)			Secondar	v Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined I ea	ves (B9)		x Surfa	ce Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	una (B1	3)		x Drain	age Patterns (B10)
Saturatio	on (A3)		True Aqua	tic Plant	s (B14)		Drv-S	Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide (o ())dor (C1)		Cravf	ish Burrows (C8)
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on L	ivina Ro	oots (C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Presence	of Reduc	ed Iron (C4)	Stunt	ed or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	led Soils	x Geon	norphic Position (D2)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		X FAC-	Neutral Test (D5)
Inundatio	on Visible on Aerial	Imagery (B7)	Gauge or V	Well Dat	a (D9)			
Sparsely	Vegetated Conca	ve Surface (B8	B) Other (Exp	plain in R	emarks)			
Field Obser	vations.		/		,		1	
Surface Wat	er Present?	(es	No X	Depth (i	nches):			
Water Table	Present?			Depth (i	nches)			
Saturation P	resent?	(es		Depth (i	nches):		Wetland Hydrolog	av Present? Yes X No
(includes car	oillary fringe)			2 op (.				<u> </u>
Describe Re	corded Data (strea	m gauge, mon	itoring well, aeria	l photos	previous	sinspect	tions), if available:	
Decemberite		in gaage, men	noning won, dona	ii pilotoo	, proviou	mopoo		
Remarks:								
Multiple seco	ondary wetland hyd	Irology indicate	ors were present.					

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Crooksv	ille-No	orth Newark 138 kV Tranm	ission Line	City/Co	ounty: Licking Cour	nty		Sampling Date:	10/18/2022
Applicant/Owner:	AEP					State:	ОН	Sampling Point:	UPL-JMH-001
Investigator(s): JMH,	LMP			Section,	Township, Range:	Q SW 1	[2N R11W	I	
Landform (hillside, ter	rrace,	etc.): <u>Flat</u>			Local relief (conca	ve, conve	ex, none):	None	
Slope (%): 1	Lat:	40.072537		Long:	-82.355924			Datum: NAD83	
Soil Map Unit Name:	AfB					<u> </u>	WI classi	fication: N/A	
Are climatic / hydrolog	gic co	nditions on the site typical	for this time of yea	ar?	Yes <u>X</u> No	00	(If no, exp	olain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly distu	rbed?	Are "Normal Circur	nstances	" present?	Yes <u>X</u> No)
Are Vegetation	, Soil	, or Hydrology	naturally problem	atic?	(If needed, explain	any ansv	vers in Rei	marks.)	
SUMMARY OF F	IND	NGS – Attach site m	ap showing s	sampli	ng point location	ons, tra	insects,	important feat	ures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>				
Remarks: This sample point is representative of the upland agriculture field located along the edge of a corn field.									

VEGETATION – Use scientific names of plants.

		Absolute	Dominant	Indicator			
Tree Stratum (Plot si	ze: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:		
1					Number of Dominant Species That		
2.					Are OBL, FACW, or FAC:	0	(A)
3.					Total Number of Dominant Species		-
4.					Across All Strata:	3	(B)
5.					Percent of Dominant Species That		_
			=Total Cover		Are OBL, FACW, or FAC:	0.0%	(A/B)
Sapling/Shrub Stratum	(Plot size: <u>15' radius</u>)						- ` `
1					Prevalence Index worksheet:		
2.					Total % Cover of: Mu	Itiply by:	
3.					OBL species 0 x 1 =	0	-
4.					FACW species $0 \times 2 =$	0	-
5.					FAC species 0 x 3 =	0	-
			=Total Cover		FACU species 100 x 4 =	400	-
Herb Stratum (Plot si	ze: 5' radius)				UPL species 0 x 5 =	0	_
1. Dactylis glomerata		50	Yes	FACU	Column Totals: 100 (A)	400	(B)
2. Phleum pratense		30	Yes	FACU	Prevalence Index = B/A =	4.00	-
3. Setaria faberi		20	Yes	FACU			-
4.					Hydrophytic Vegetation Indicators	:	
5.					1 - Rapid Test for Hydrophytic Ve	egetation	
6.					2 - Dominance Test is >50%	0	
7.					3 - Prevalence Index is ≤3.0 ¹		
8					4 - Morphological Adaptations ¹ (F	Provide sur	porting
9.					data in Remarks or on a separ	rate sheet)	,p e g
10.					Problematic Hydrophytic Vegetat	tion ¹ (Expla	ain)
		100	=Total Cover		¹ Indicators of hydric soil and wetland	hvdroloav	must
Woody Vine Stratum	(Plot size: <u>30' radius</u>)				be present, unless disturbed or probl	ematic.	
1.					Hydrophytic		
2.					Vegetation		
			=Total Cover		Present? Yes No	Х	
Remarks: (Include photo nu	mbers here or on a separa	ate sheet.)					
No hydrophytic vegetation in	dicators present as domina	ance test is	not > 50%, do	ominant spec	ies are FACW, FACU and UPL.		

SOIL

Profile Desc Depth	cription: (Describe Matrix	to the dept	h needed to doc Redo	ument t ox Featu	ne indica res	tor or c	onfirm the a	absence of inc	dicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ure	Remarks	;
0-20	10YR 4/3	100	· · · · ·				Loamv/0	Clavev		
0 20		100			·		Loamyre			
					·					
					·					
					·					
¹ Type: C=C	oncentration D-Den	etion RM-	Reduced Matrix	MS-Mas	ked Sand	Grains		² Location: PL:	-Pore Lining M-Ma	atrix
Hydric Soil	Indicators:			no-mac		Grains	•	Indicators for	Problematic Hvdri	ic Soils ³ :
Histosol	(A1)		Sandy Gle	eved Ma	trix (S4)			Coast Pra	irie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy Re	dox (S5)				Iron-Mang	anese Masses (F12	?)
Black Hi	stic (A3)		Stripped N	/atrix (S	6)			Red Parer	nt Material (F21)	,
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)	,			Very Shall	ow Dark Surface (F	22)
Stratified	d Layers (A5)		Loamy Mu	ucky Min	eral (F1)			Other (Exp	plain in Remarks)	
2 cm Mu	uck (A10)		Loamy Gle	eyed Ma	trix (F2)					
Depleted	d Below Dark Surface	e (A11)	Depleted I	Matrix (F	-3)					
Thick Da	ark Surface (A12)		Redox Da	rk Surfa	ce (F6)			³ Indicators of h	nydrophytic vegetatio	on and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Su	rface (F7)			wetland hy	/drology must be pre	esent,
5 cm Mu	icky Peat or Peat (S3	5)	Redox De	pressior	ns (F8)			unless dis	turbed or problemat	ic.
Restrictive	Layer (if observed):									
Type:										
Depth (ir	nches):		_				Hydric So	il Present?	Yes	No X
Romarks:										
This data for	rm is revised from Mi	dwest Regio	onal Supplement	Version	2.0 to incl	ude the	NRCS Field	Indicators of H	lydric Soils, Version	7.0, 2015
Errata. (http:	://www.nrcs.usda.gov	/Internet/FS	E_DOCUMENTS	S/nrcs14	2p2_0512	93.docx	()			
HIDROLU	JGY									
Wetland Hy	drology Indicators:									
Primary Indi	<u>cators (minimum of o</u>	ne is requir	ed; check all that	apply)				Secondary Ind	licators (minimum of	f two required)
Surface	Water (A1)		Water-Sta	ined Lea	aves (B9)			Surface S	oil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	auna (B'	13)			Drainage I	Patterns (B10)	
Saturatio	on (A3)		True Aqua	atic Plan	ts (B14)			Dry-Seaso	on Water Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide	Odor (C1)		(00)	Crayfish B	Surrows (C8)	
Sealmer	nt Deposits (B2)			Knizospr	neres on L		Dots $(C3)$	Saturation	VISIBle on Aerial Im	nagery (C9)
	DOSIIS (B3)		Presence	of Redu	cea iron (ation in Ti	U4) Lod Soil		Stunted of	Stressed Plants (D	(1)
	at of Crust (B4)		Recent Irc	n Redu		ied Solis	S (C6)	Geomorpr	rol Toot (DE)	
Iron Dep	on Vicible on Acriel Ir	nogon (P7			= (C7)			FAC-Neul	iai iesi (D5)	
Inunualio		Surface (P)Gauge of		la (D9) Somorko)					
		Sullace (D		Jiain in r	(emarks)					
Field Obser	vations:	•	No V	Danth (inchec).					
Surface wat	Dresent?	s		Depth (inches):					
Soturation P	Present? Ye	s		Depth (inches):		Wotland		osont? Vos	No Y
(includes co	nillary fringo)	s		Deptil (<u>-</u>		wetianu	nyurology Fi		
	pinary initige) corded Data (stream		nitoring well serie	al photos	nreviou	sinspec	tions) if avai	ilahle:		
2000 INC INC	Server Data (Stredill	guugo, mo			, proviou:	- inspec	, ii ava			
Remarks:										
No hydrolog	y indicators present.									

	Ohio Rapid Assessment Metho for Wetland Categorization	od for Wetlands 10 Page Form
Version 5.0	Background Information Scoring Boundary Worksheet Narrative Rating Field Form Quantitative Rating ORAM Summary Worksheet Wetland Categorization Worksheet	Ohio EPA, Division of Surface Water Final: February 1, 2001

Instructions

The investigator is *STRONGLY URGED* to read the Manual for Using the Ohio Rapid Assessment Method for Wetlands for further elaboration and discussion of the questions below prior to using the rating forms.

The Narrative Rating is designed to categorize a wetland or to provide alerts to the Rater based on the presence or possible presence of threatened or endangered species. The presence or proximity of such species is often an indicator of the quality and lack of disturbance of the wetland being evaluated. In addition, it is designed to categorize certain wetlands as presence or possible presence of threatened or endangered species. The presence or the quality of such species is often an indicator of the quality and lack of disturbance of the quality and lack of disturbance of the wetland being evaluated. In addition, it is designed to categorize certain wetlands as very low quality (Category 1) or very high quality (Category 3) regardless of the wetland's score on the Quantitative Rating. In addition, the Narrative Rating also alerts the investigator that a particular wetland may be a Category 3 wetland, again, regardless of the wetland's score on the Quantitative Rating.

It is *VERY IMPORTANT* to properly and thoroughly answer each of the questions in the ORAM in order to properly categorize a wetland. To properly answer all the questions, the boundaries of the wetland being assessed must be correctly identified. Refer to Scoring Boundary worksheet and the User's Manual for a discussion of how to determine the "scoring boundaries." In some instances, the scoring boundaries may differ from the "jurisdictional boundaries."

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories. The most recent version of this document is posted on Ohio EPA's Division of Surface Water web page at: http://www.epa.ohio.gov/dsw/wetlands/WetlandEcologySection.aspx

Background Information					
Name:	Josh Holmes				
Date:	11/1/2022				
Affiliation:	AECOM				
Address:	707 Grant Street, Pittsburgh Pa 15219				
Phone Number:	(724) 882-6958				
e-mail address:	Joshua.Holmes				
Name of Wetland:	Wetland 105				
Vegetation Communit(ies):	PFO/PEM				
HGM Class(es):	DEPRESSIONAL				
Location of Wetland: include map	o, address, north arrow, landmarks, distances, roads, etc.				

Lat/Long or UTM Coordinate:	40.09518, -82.41491
USGS Quad Name:	Newark
County:	Licking
Township:	T2N
Section and Subsection:	Q NE
Hydrologic Unit Code:	050400060205: Log Pond Run-North Fork Licking River Watershed
Site Visit:	6/2/2020
National Wetland Inventory Map:	See Figure 2
Ohio Wetland Inventory Map:	N/A
Soil Survey:	See Figure 2
Delineation report/map:	See Figure 3

Name of Wetland:	Wetland 105							
Wetland Size (delineated acres):	1.49	Wetland Size (Estimated total acres):	2.95					
Sketch: Include north arrow, relationshi	I p with other surface waters, vegetation	n zones, etc.						
Comments, Narrative Discussion, Justif	ication of Category Changes:							
Sample Point in for wetland 105 extends to north outside study a	a (w-jbl-20200602-01a), PFO c area, drains to south downslo	omponent of larger PEM/PFO pe towards North Fork Licking	wetland complex. Wetland					
wetland 105b , PEM component	of larger PEM/PFO wetland c	omplex. Wetland extends to se	outh outside study area,					
drains to south downslope towa	ards North Fork Licking River,	potentially isolated.						
Final score:	41	Category:	2					

Wetland ID: Wetland 105

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	X	
Step 2	Identify the locations where there is physical evidence that		
	hydrology changes rapidly. Such evidence includes both natural and human- induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	x	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	x	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	X	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		x
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.	x	

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

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

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a	YES	*NO
	United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	Wetland should be evaluated for possible Category 3 status Go to Question 2	Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of,	YES	*NO
	or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	Wetland is a Category 3 wetland. Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage	YES	*NO
	Database as a high quality wetland?	Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented	YES	*NO
	regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and	YES	*NO
	hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea, Lythrum salicaria,</i> or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or	YES	*NO
	outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated	YES	*NO
	auring most or the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	Wetland is a Category 3 wetland Go to Question 8a	Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized	YES	*NO
	by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b

We	tland ID: Wetland 105		
8b	Mature forested wetlands . Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status. Go to Question 9a	*NO Go to Question 9a
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	*NO Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the	YES	*NO
	loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status Go to Question 10	Go to Question 9c
9c	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	*NO
	the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 10
9d	Does the wetland have a predominance of native species within its vegetation	YES	*NO
	communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland Go to Question 10	Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant	YES	*NO
	species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status Go to Question 10	Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton,	YES	*NO
	Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Wetland is a Category 3 wetland. Go to Question 11	Go to Question 11
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or	YES	*NO
	(Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	Wetland should be evaluated for possible Category 3 status Complete Quantitative Rating	Complete Quantitative Rating

Wetland ID: V

Wetland	105
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Table 1. Characteristic plant species.				
invasive/exotic spp	fen species	bog species	oak opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Wetla	nd ID: Wetland 105				
Site [.]	Crooksville-North Newark 138	V Transmis Rater(s)	Audrey Hanner	Date [.]	6/2/2020
0110.			, daily ridinici	Date.	0,2,2020
			Field ID:		
	40.0		W-JBL-20200602	2-01	
	subtotal this page				
_					
0	.0 40.0 Metric 5. Specia	I Wetlands.			
max 10 pts.	subtotal Check all that app	y and score as indicated.			
	Bog (10)				
	Old growth forest (10)				
	Mature forested wetland	(5) www.stland.uprostriated.budralegy (10	n -		
	Lake Erie coastal/tributar	y wetland-unrestricted hydrology (10 v wetland-restricted hydrology (5)))		
	Lake Plain Sand Prairies	(Oak Openings) (10)			
	Relict Wet Praires (10) Known occurrence state/	federal threatened or endangered s	pecies (10)		
	Significant migratory son	gbird/water fowl habitat or usage (10)		
	Category 1 Wetland. See	Question 5 Qualitative Rating (-10)			
1	0 410 Motric 6 Plant	ommunities interspor	sion microtopogra	nhv	
		tion Communities	Sion, microtopogra	pily.	
max 20pts.	subtotal 68. Wellarid Vegeta	to 3 scale		Initiality Cover Scale (0.2471 acres) contiguous ar	rea
	Aquatic bed	to 5 scale.	1 Present and either cor	mprises small part of wetland's 1	ca
	1 Emergent		vegetation and is of m	noderate quality, or comprises a	
	Shrub		significant part but is of 2 Present and either con	of low quality	2
	Mudflats		vegetation and is of m	noderate quality or comprises a small	1
	Open water		part and is of high qua	ality	
	6b. horizontal (plan view	w) Interspersion	3 Present and comprise vegetation and is of hi	es significant part, or more, of wetlan igh quality	id's 3
	Select only one.	.,	regetation and is of th	gir quanty	
	High (5)		Narrative Description	n of Vegetation Quality	
	Moderately high(4)		Low spp diversity and	/or predominance of nonnative or lo ative species	W
	Moderately low (2)		Native spp are domina	ant component of the vegetation, mo	bd
	x Low (1)		although nonnative an	nd/or disturbance tolerant native spp)
	None (0)	e nlants. Refer	can also be present, a	and species diversity moderate to	
	Table 1 ORAM long form	for list. Add	threatened or endange	ered spp to	
	or deduct points for cove	rage	A predominance of na	tive species, with nonnative spp hig	h
	Extensive >75% cover (-	5) (-3)	and/or disturbance to	erant native spp absent or virtually	
	Sparse 5-25% cover (-1)	(-3)	the presence of rare, t	threatened, or endangered spp	
	Nearly absent <5% cove	r (0)	N 10		
	Absent (1)		Mudflat and Open W	acres)	
	Score all present using 0	to 3 scale.	1 Low 0.1 to <1ha (0.24	7 to 2.47 acres)	
	0 Vegetated hummucks/tus	sucks	2 Moderate 1 to <4ha (2	2.47 to 9.88 acres)	
	1 Coarse woody debris >1	ōcm (6in) Din) dbh	3 High 4ha (9.88 acres)	or more	
	0 Amphibian breeding pool	s s	Microtopography Co	over Scale	
			0 Absent		
			1 Present very small an of marginal quality	nounts or if more common	
			2 Present in moderate a	amounts, but not of highest	
	41.0 TOTAL (Max 100 pts)		quality or in small amo	ounts of highest quality	
	2 Category		3 Present in moderate o	or greater amounts	

and of highest quality

		JINSII	561	
		Cir answ insert	cle /er or score	Result
Narrative Rating	Question 1 Critical Habitat	YES	*NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES	*NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES	*NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES	*NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES	*NO	If yes, Category 1.
	Question 6. Bogs	YES	*NO	If yes, Category 3.
	Question 7. Fens	YES	*NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES	*NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES	*NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES	*NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	2	2	
	Metric 2. Buffers and surrounding land use	1	2	
	Metric 3. Hydrology	1	4	
	Metric 4. Habitat	1	2	
	Metric 5. Special Wetland Communities		0	
	Metric 6. Plant communities, interspersion, microtopography	1	1	
	TOTAL SCORE	4	1	Category based on score breakpoints

ORAM Summary Worksheet

Wetland ID:

Wetland 105

Complete Wetland Categorization Worksheet.

Wetland ID:

Wetland 105

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM	
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	*NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over- categorized by the ORAM	
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	*NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745- 1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.	
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	*NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold (<i>including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM	
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	*YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.	
Does the quantitative score fall with the <i>"gray zone"</i> for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	*NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).	
Does the wetland otherwise exhibit 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?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	*NO Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.	

		Final Category	,	
Choose one	Category 1	*Category 2	Category 3	

End of Ohio Rapid Assessment Method for Wetlands.

AECOM	Imagine it. Delivered.		PHOTOGRAPHIC R Wetland Photograph F	RAPHIC RECORD	
		Site Location:		Drainat	
Client Name:				Project N	

AEP

CROOKSVILLE-NORTH NEWARK 138KV TRANSMISSION LINE REBUILD PROJECTADDENDUM 3

60616110

Wetland 105a	
Date:	
Novemeber 1, 2022	
Description:	
PFO	
Cateogry 2	
Facing North	

Wetland 105a	
Date:	ANT AND A CONTRACT OF
Novemeber 1, 2022	
Description:	
PFO	
Cateogry 2	
Facing East	

PHOTOGRAPHIC RECORD

Wetland Photograph Record

Client Name:

AECOM Imagine it. Delivered.

AEP

Site Location:

CROOKSVILLE-NORTH NEWARK 138KV TRANSMISSION LINE REBUILD PROJECTADDENDUM 3

PHOTOGRAPHIC RECORD

Wetland Photograph Record

Client Name:

AEP

Site Location:

CROOKSVILLE-NORTH NEWARK 138KV TRANSMISSION LINE REBUILD **PROJECTADDENDUM 3**

APPENDIX B

Habitat Photographs

Agricultural Habitat

August 23, 2022 Description:

Facing South

Agricultural Habitat

PHOTOGRAPHIC RECORD

Habitat Photograph Record

Client Name:

AEP

Date:

Site Location:

CROOKSVILLE-NORTH NEWARK 138KV TRANSMISSION LINE REBUILD **PROJECTADDENDUM 3**

Project No.

60616110

Old Field Habitat

Date:

October 18, 2022 **Description:**

Old Field Habitat

Facing North

PHOTOGRAPHIC RECORD

Habitat Photograph Record

Client Name:

October 18, 2022 **Description:**

Urban Habitat

Facing South

AEP

Urban Date:

Site Location:

CROOKSVILLE-NORTH NEWARK 138KV TRANSMISSION LINE REBUILD **PROJECTADDENDUM 3**

Wetland/Stream

Date:

November 1, 2022 **Description:**

Wetland Habitat

Facing North

PHOTOGRAPHIC RECORD

Habitat Photograph Record

Client Name:

AEP

Site Location:

CROOKSVILLE-NORTH NEWARK 138KV TRANSMISSION LINE REBUILD PROJECTADDENDUM 3

Background Information	
Name:	Josh Holmes
Date:	11/1/2022
Affiliation:	AECOM
Address:	707 Grant Street, Pittsburgh Pa 15219
Phone Number:	(724) 882-6958
e-mail address:	Joshua.Holmes
Name of Wetland:	Wetland 105
Vegetation Communit(ies):	PFO/PEM
HGM Class(es):	DEPRESSIONAL
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.	

Lat/Long or UTM Coordinate:	40.09518, -82.41491				
USGS Quad Name:	Newark				
County:	Licking				
Township:	T2N				
Section and Subsection:	Q NE				
Hydrologic Unit Code:	050400060205: Log Pond Run-North Fork Licking River Watershed				
Site Visit:	6/2/2020				
National Wetland Inventory Map:	See Figure 2				
Ohio Wetland Inventory Map:	N/A				
Soil Survey:	See Figure 2				
Delineation report/map:	See Figure 3				
Name of Wetland:	Wetland 105				
---	---	---------------------------------------	----------------------------	--	--
Wetland Size (delineated acres):	1.49	Wetland Size (Estimated total	2.95		
Sketch: Include north arrow, relationshi	 p with other surface waters, vegetation	on zones, etc.			
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.					
Sample Point in for wetland 105	a (w-jbl-20200602-01a), PFO c	omponent of larger PEM/PFO	wetland complex. Wetland		
extends to north outside study	area, drains to south downs	lope towards North Fork Lick	ing River. Sample Point in		
area, drains to south downslope	towards North Fork Licking F	land complex. Wetland exten River.	as to south outside study		
		Octoors			
Final score:	41	Category:	2		

Wetland ID: Wetland 105

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a		
	proposed impact, a reference site, conservation site, etc.		
Step 2	Identify the locations where there is physical evidence that		
	hydrology changes rapidly. Such evidence includes both		
	natural and human- induced changes including, constrictions		
	caused by berms or dikes, points where the water velocity		
	changes rapidly at rapids or falls, points where significant		
	Inflows occur at the confluence of rivers, or other factors that	X	
	nay restrict hydrologic interaction between the wetlands of		
	parts of a single wetland.		
Step 3	Delineate the boundary of the wetland to be rated such that all		
	areas of interest that are contiguous to and within the areas		
	where the hydrology does not change significantly, i.e. areas		
	that have a high degree of hydrologic interaction are included		
	within the scoring boundary.		
Step 4	Determine if artificial boundaries, such as property lines, state		
	lines, roads, railroad embankments, etc., are present. These		
	should not be used to establish scoring boundaries unless they		
	coincide with areas where the hydrologic regime changes.		
01			
Step 5	In all instances, the Rater may enlarge the minimum scoring		
	could be scored separately		
	could be scored separately.		
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring		
	boundaries for wetlands that form a patchwork on the		
	streams, lakes or rivers, or for dual classifications		
		X	
1			

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

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

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a	YES	*NO
	United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	Wetland should be evaluated for possible Category 3 status Go to Question 2	Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of,	YES	*NO
	or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	Wetland is a Category 3 wetland. Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage	YES	*NO
	Database as a high quality wetland?	Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented	YES	*NO
	regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and	YES	*NO
	hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea, Lythrum salicaria,</i> or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or	YES	*NO
	outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated	YES	*NO
	auring most or the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	Wetland is a Category 3 wetland Go to Question 8a	Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized	YES	*NO
	by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b

We	tland ID: Wetland 105		
8b	Mature forested wetlands . Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status. Go to Question 9a	*NO Go to Question 9a
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	*NO Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the	YES	*NO
	loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status Go to Question 10	Go to Question 9c
9c	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	*NO
	the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 10
9d	Does the wetland have a predominance of native species within its vegetation	YES	*NO
	communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland Go to Question 10	Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant	YES	*NO
	species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status Go to Question 10	Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton,	YES	*NO
	Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Wetland is a Category 3 wetland. Go to Question 11	Go to Question 11
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plaine	YES	*NO
	(Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	Wetland should be evaluated for possible Category 3 status Complete Quantitative Rating	Complete Quantitative Rating

Wetland ID: V

Wetland	105
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Table 1. Characteristic plant species.						
invasive/exotic spp	fen species	bog species	oak opening species	wet prairie species		
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis		
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta		
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes		
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii		
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita		
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii		
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii		
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus		
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata		
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora		
	Parnassia glauca	Schechzeria palustris		Lythrum alatum		
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum		
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum		
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans		
	Salix candida	Vaccinium oxycoccos		Spartina pectinata		
	Salix myricoides	Woodwardia virginica		Solidago riddellii		
	Salix serissima	Xyris difformis				
	Solidago ohioensis					
	Tofieldia glutinosa					
	Triglochin maritimum					
	Triglochin palustre					

End of Narrative Rating. Begin Quantitative Rating on next page.



Wetla	nd ID: Wetland 10	5			
Site [.]	Crooksville-North Newark	138kV Transmis Rater(s)	Audrey Hanner	Date [.]	6/2/2020
0110.			, adrey Hanner	Date.	5,2,2020
			Field ID:		
	40.0		W-JBL-20200602-	-01	
	subtotal this page				
_					
0	.0 40.0 Metric 5. S	pecial Wetlands.			
max 10 pts.	subtotal Check all that	t apply and score as indicated.			
	Bog (10)				
	Old growth forest	(10)			
	Mature forested v	vetland (5) (tributenet uprestricted bydrology (1)			
	Lake Erie coasta	/tributary wetland-unrestricted hydrology (10))		
	Lake Plain Sand	Prairies (Oak Openings) (10)			
	Relict Wet Praire	s (10) e state/federal threatened or endangered si	pecies (10)		
	Significant migrat	ory songbird/water fowl habitat or usage (10)		
	Category 1 Wetla	nd. See Question 5 Qualitative Rating (-10)			
1	0 410 Motric 6 P	ant communities interener	sion microtopograr	hv	
		lant communities, intersper		nunity Cover Scole	
max 20pts.	subtotal 68. Welland V	using 0 to 3 scale	0 Absent or comprises <	0 1ha (0 2471 acres) contiguous a	rea
	Aquatic bed	using 0 to 5 scale.	1 Present and either con	prises small part of wetland's 1	lea
	1 Emergent		vegetation and is of mo	oderate quality, or comprises a	
	Shrub		significant part but is of 2 Present and either con	f low quality	2
	Mudflats		vegetation and is of mo	oderate quality or comprises a sma	1
	Open water		part and is of high qual	lity	
	Other6b_ horizontal (r	lan view) Interspersion	3 Present and comprises vegetation and is of his	s significant part, or more, of wetlar ah quality	nd's 3
	Select only one.		rogotation and to or me	jir quality	
	High (5)		Narrative Description	of Vegetation Quality	
	Moderately high(4)	Low spp diversity and/ disturbance tolerant na	or predominance of nonnative or lo ative species	W
	Moderately low (2	?)	Native spp are domina	nt component of the vegetation, mo	od
	x Low (1)		although nonnative and	d/or disturbance tolerant native spr)
	None (0)	invasive plants. Refer	can also be present, ai moderately high but ge	nd species diversity moderate to	
	Table 1 ORAM lo	ng form for list. Add	threatened or endange	red spp to	
	or deduct points i	or coverage	A predominance of nat	ive species, with nonnative spp high	j h
	Extensive >75%	cover (-5)	and/or disturbance tole	erant native spp absent or virtually	
	Sparse 5-25% co	ver (-1)	the presence of rare, the	hreatened, or endangered spp	
	Nearly absent <5	% cover (0)	N		
	Absent (1)	anhy	Mudflat and Open Wa	ater Class Quality	
	Score all present	using 0 to 3 scale.	1 Low 0.1 to <1ha (0.247	to 2.47 acres)	
	0 Vegetated humm	ucks/tussucks	2 Moderate 1 to <4ha (2.	47 to 9.88 acres)	
	1 Coarse woody de	bris >15cm (6in) /5cm (10in) dbb	3 High 4ha (9.88 acres)	or more	
	0 Amphibian breed	ng pools	Microtopography Co	ver Scale	
			0 Absent		
			Present very small among of marginal quality	ourns or it more common	
			2 Present in moderate ar	mounts, but not of highest	
	41.0 TOTAL (Max 100	pts)	quality or in small amo	unts of highest quality	
	2 Category		3 Present in moderate or	greater amounts	

and of highest quality

ORAW Summary WorkSheet					
		Cir answ insert	cle /er or score	Result	
Narrative Rating	Question 1 Critical Habitat	YES	*NO	If yes, Category 3.	
	Question 2. Threatened or Endangered Species	YES	*NO	If yes, Category 3.	
	Question 3. High Quality Natural Wetland	YES	*NO	If yes, Category 3.	
	Question 4. Significant bird habitat	YES	*NO	If yes, Category 3.	
	Question 5. Category 1 Wetlands	YES	*NO	If yes, Category 1.	
	Question 6. Bogs	YES	*NO	If yes, Category 3.	
	Question 7. Fens	YES	*NO	If yes, Category 3.	
	Question 8a. Old Growth Forest	YES	*NO	If yes, Category 3.	
	Question 8b. Mature Forested Wetland	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 9b. Lake Erie Wetlands - Restricted	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES	*NO	If yes, Category 3	
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 10. Oak Openings	YES	*NO	If yes, Category 3	
	Question 11. Relict Wet Prairies	YES	*NO	If yes, evaluate for Category 3; may also be 1 or 2.	
Quantitative Rating	Metric 1. Size	2	2		
	Metric 2. Buffers and surrounding land use	1	2		
	Metric 3. Hydrology	1	4		
	Metric 4. Habitat	1	2		
	Metric 5. Special Wetland Communities	0			
	Metric 6. Plant communities, interspersion, microtopography				
	TOTAL SCORE	4	1	Category based on score breakpoints	

ORAM Summary Worksheet

Wetland ID:

Wetland 105

Complete Wetland Categorization Worksheet.

Wetland ID:

Wetland 105

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	*NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over- categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	*NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745- 1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	*NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	*YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the <i>"gray zone"</i> for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	*NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
Does the wetland otherwise exhibit 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?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	*NO Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

Final Category				
Choose one	Category 1	*Category 2	Category 3	

End of Ohio Rapid Assessment Method for Wetlands.

This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 22-0964-EL-BLN

Summary: Correspondence Letter of Notification electronically filed by Hector Garcia-Santana on behalf of AEP Ohio Transmission Company, Inc.