Construction Notice Kileville – Shire No. 3 and No. 4 138-kV Tie Lines Project



PUCO Case No. 23-0970-EL-BNR

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

Submitted by: Ohio Power Company

Construction Notice

Kileville-Shire No. 3 and No. 4 138-kV Tie Lines Project

4906-6-05

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

4906-6-05(B) General Information

B(1) Project Description

The applicant shall provide 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 or construction notice application.

The Company has identified the need to construct the Kileville-Shire No. 3 and No. 4 138-kV Tie Lines Project (the "Project") to provide additional electricity to a customer's facility in Jerome Township, Union County, Ohio. Previously, the Company filed and in-serviced the Kileville-Shire No. 1 and No. 2 138 kV Tie Lines (approved in Case No. 23-0153-EL-BNR) to serve the initial customer request. The Project will provide the customer with additional capacity by constructing two additional tie lines, totaling less than 0.1 mile between the Company's approved Kileville Substation (approved in Case No. 22-1119-EL-BLN) and the customer's stepdown substation (Shire Substation). The location of the Project and the associated previously approved projects are shown on **Exhibit 1** and **Exhibit 2** in **Appendix A**.

The Project meets the requirements for a Construction Notice (CN) because it is within the types of projects defined by Item (1)(c)(i) of 4906-1-01 *Appendix A Application Requirement Matrix For Electric Power Transmission Lines* of which states:

- (1) 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:
 - (c) Line(s) primarily needed to attract or meet the requirements of a specific customer or customers, as follows:
 - (i) The line is completely on property owned by the specific customer or the applicant

The Project has been assigned PUCO Case No. 23-0970-EL-BNR.

B(2) Statement of Need

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

The Project is needed to address an additional 138 kV service requested by an existing customer in Jerome Township, Union County, Ohio. To meet the customer's needs of 258 MW of peak load, the Company will install two additional 138 kV tie-lines between the Company's Kileville Station and the customer's step-down station (Shire Station) to increase capacity. The customer has requested an in-service date of April 1, 2024.

Failure to move forward with the proposed Project will result in the inability to meet the customer's expectations and thereby jeopardize the customer's plans to increase their load to 258 MW.

The need was presented and reviewed with stakeholders at the February 17, 2022, PJM SSRTEP Western Meeting. The solution was presented and reviewed with stakeholders at the May 9, 2023, PJM TEAC Meeting. A PJM supplemental number has not been identified for the Project but will be provided to OPSB once it has been established by PJM. The Project is listed in the Company's supplemental 2023 Long Term Forecast Report on page 26, 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 in Jerome Township, Union County, Ohio. **Exhibit 1** in **Appendix A** shows the Project area on a United States Geological Survey (USGS) Hilliard and Shawnee Hills topographic quadrangle map in relation to existing facilities. **Exhibit 2** in **Appendix A** identifies the Project on aerial imagery.

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.

Kileville Substation is located on property owned by the Company and aligns with the layout of the surrounding customer's proposed development plans. Due to the location of the Kileville Substation and the customer's step down substation (Shire Substation), the proposed tie lines are a direct connection between the two and no additional landowners are impacted. In addition, the proposed Project will result in no impacts to wetlands, streams, or known cultural resource areas eligible for the National Register of Historic Places (NRHP).

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 maintains a website (http://aeptransmission.com/ohio/) on which an electronic copy of this CN is available. An electronic copy of the CN will be served to the public library and each political subdivision affected by this Project.

B(6) Construction Schedule

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

Construction of the Project is planned to start in February 2024 with a proposed in-service date of April 2024.

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.

Exhibit 1 in **Appendix A** provides the proposed Project area on a map of 1:24,000-scale (1-inch equals 2,500 feet) on the Hilliard and Shawnee Hills USGS 7.5-minute topographic map of the Project area. **Exhibit 2** in **Appendix A** shows the Project area on ESRI World Imagery at a scale of 1:6,000-scale (1-inch equals 500 feet. The ESRI World Imagery is dated March 2023.

To visit the Project from Columbus, take I-70 West and take exit 93 onto I-270 North. Take I-270 North for approximately 9.0 miles. Take exit 17B onto OH-161 West/US-33 West, then take exit 106 for OH-161 West. Turn left onto OH-161 West/Post Road and take the first exit at the traffic circle onto OH-161 West. Keep right onto Industrial Parkway/Old US Highway 33 then take the second exit at the traffic circle and stay on Industrial Parkway/Old US Highway 33. Turn left onto Warner Road and the Project is on the left (south) at geographic coordinates 40.116909, -83.198864.

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 proposed Project is located on Parcel Number 1500300200000 which is owned by the Company. No other property easements, options, or land use agreements are necessary to construct the Project or operate the station.

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.

Each tie line construction is estimated to include the following.

Voltage: 138 kV

Conductors: (3) 556KCM ASCR 26/7 Dove

Static Wire: (2) 7#10 Alumoweld

Insulators: Polymer

ROW Width: Not Applicable Structure Types: Not Applicable

B(9)(b) Electric and Magnetic Fields

No occupied residences or institutions are located within 100 feet of the Project.

B(9)(c) Project Costs

The estimated capital cost of the project.

The capital cost estimate for the Project, which is comprised of applicable tangible and capital costs, is approximately \$270,000 using a Class 4 estimate. Per the Ohio retail tariff, the Customer is responsible for 40% of the cost of the Project. The remainder of the Project cost, pursuant to the PJM OATT, will be recovered in the Ohio Power Company FERC formula rate (Attachment H-14 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) Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.

The Project is in Jerome Township, Union County, Ohio. Land use around the Project area includes agricultural fields and commercial and residential properties. However, large commercial and industrial facilities are currently under development in this area, and the parcel within which the Project is situated on is currently being developed by the customer. There are no schools, hospitals, places of worship, or airports within 1,000 feet of the Project's transmission tie-lines.

B(10)(b) Agricultural Land Information

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

The Project is on customer property and does not impact agricultural land. The Union County Auditor's office was contacted to obtain information about Agricultural District Lands and received the requested data via email on September 20, 2023. No Agricultural District Lands are within the potential disturbance area of the Project. No agricultural lands are crossed by the Project.

B(10)(c) Archaeological and Cultural Resources

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

The Company's consultant completed Phase I Cultural Resource Management Investigations of the Project Area to document previous studies. Recent ground disturbance within the Project area was noted on the customer's property. The consultant identified one aboveground resource greater than 50 years old in the area of potential effect but recommended that this feature was not eligible for the National Register of Historic Places (NRHP). The Ohio State Historic Preservation Office ("SHPO") provided a response to its review of the Project on July 25, 2022. SHPO acknowledged that the recent disturbance was not the result of work done by the Company or its subcontractor but stated that the disturbance made the Project area uninvestigable for archaeological resources. SHPO indicated that they were unable to comment on the Project's effect on archaeological resource due to the high level of recent disturbance on site. SHPO concurred with the consultant's recommendation that the aboveground resource is not eligible for listing in the NRHP. SHPO stated that no further coordination was necessary unless the Project changes or additional resources are discovered during implementation of the Project. Correspondence with the SHPO received to date is provided in **Appendix C**.

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 was be filed with the Ohio Environmental Protection Agency for authorization of construction storm water discharges under General Permit OHCDooooo6 as part of the overall Kileville Substation and associated transmission line construction. The Company will also coordinate storm water permitting needs with Union County as required. 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.

Wetland and stream delineation field surveys were completed within the Project area by the Company's consultant in February, September, and November 2022. No streams or wetlands were identified within the Project footprint (see Appendix D).

The FEMA Flood Insurance Rate Map was reviewed to identify any floodplains/flood hazard areas that have been mapped within the Project Area (specifically, map number **39049C0127K**). Based on this mapping, no mapped FEMA floodplains are located in the Project Area. Therefore, no floodplain permit will be required for the Project.

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.

As part of the ecological study completed for the Project, a coordination letter was submitted to the USFWS Ohio Ecological Services Field Office seeking technical assistance on the Project for potential impacts to threatened or endangered species. The April 13, 2022 response letter from the USFWS (see Appendix C) indicates that the entire State of Ohio lies within the range of the federally threatened northern long-eared bat and federally endangered Indiana bat.

Additionally, the proposed Project is in the vicinity of one or more confirmed records of Indiana bat. However, no tree clearing is anticipated for the Project, therefore no adverse effects are anticipated for the northern long-eared bat or the Indiana bat.

A coordination letter was submitted to the Ohio Department of Natural Resources ("ODNR") Division of Wildlife ("DOW") Ohio Natural Heritage Program ("ONHP") and the ODNR - Office of Real Estate in March 2022 seeking an environmental review of the proposed Project for potential impacts on state-listed and federally-listed threatened or endangered species. Correspondence from ODNR's DOW/OHNP and the ODNR - Office of Real Estate was received on April 1, 2022 (see **Appendix C**).

According to ODNR-DOW, the Project is within the range of the Indiana bat, northern long-eared bat, little brown bat, and tricolored bat. In addition, the Project is within the vicinity of records for the Indiana bat. Because the presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. During the spring and summer (April 1 through September 30), the Indiana, northern long-eared, little brown, and tricolored bat species predominantly roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with dbh \geq 20 inches if possible. The DOW also recommends conducting a desktop habitat assessment, followed by a field assessment if needed, to determine if there are potential hibernaculum present within 0.25 miles of the Project area. The Company's consultant completed a habitat desktop assessment in accordance with the 2020 Range-wide Indiana Bat Survey Guidelines utilizing available ODNR websites, including data on known abandoned or active mines and locations of known or suspected karst geology. The desktop assessment did not identify any mines within a 0.25-mile buffer of the Project area (See Figure 4 of

Appendix D), no potential hibernacula were observed within the Project area during field surveys, and the Company does not anticipate the need to clear trees for the Project. Therefore, the Project is not likely to impact these species.

According to the ODNR response letter, the Project is within the range of seven mussel and one fish species listed as federally or state endangered or threatened. However, due to the location, and that there is no inwater work proposed in any perennial streams of sufficient size, this Project is not likely to impact these species.

The Project is also within the range of the state-listed endangered American bittern, king rail, lark sparrow, and state-listed threatened least bittern. If any of these species nesting habitat (i.e., wetlands, marsh, and/or grassland) will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. No nesting habitat was identified within the Project area; therefore, the Project is not likely to impact these species.

The Project is also within the range of the state-listed endangered loggerhead shrike and lark sparrow. If their nesting habitat (i.e., hedgerows, thickets, and fencerows) will be impacted, construction should be avoided in this habitat during the species' nesting period of April 1 through July 31. No nesting habitat was identified within the Project area; therefore, the Project is not likely to impact these species.

The Project is also within the range of the state-listed endangered northern harrier. If their nesting habitat (i.e., large marsh, or grasslands) will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. No nesting habitat was identified within the Project area; therefore, the Project is not likely to impact this species.

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.

No unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, state nature preserves, state or national parks, state or national forests, or other protected natural areas were identified within the Project Area.

FEMA Flood Insurance Rate Maps were consulted to identify any floodplains/flood hazard areas that have been mapped in the Project Area (specifically, map number **39049Co127K**). Based on these maps, no mapped FEMA floodplains are located in the Project area.

Wetland and stream delineation field surveys were completed within the Project area by the Company's consultant in February, September, and November 2022. No streams or wetlands were identified within the Project footprint (see Appendix D).

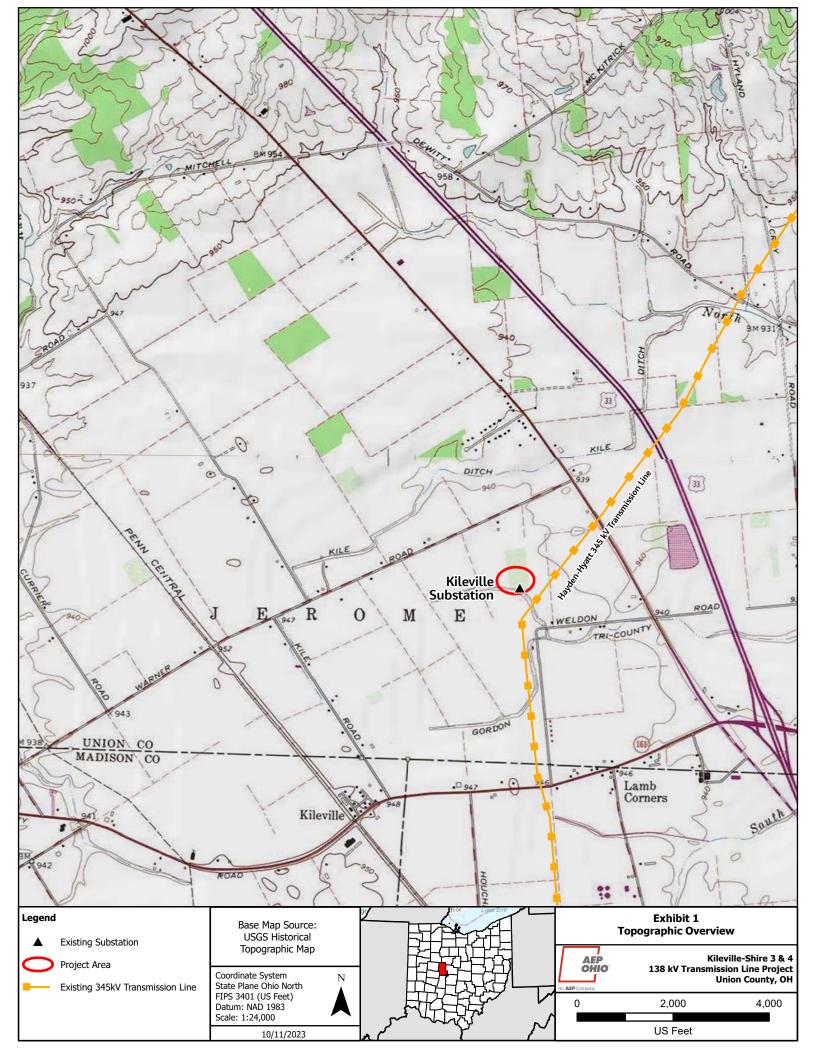
B(10)(g) Unusual Conditions

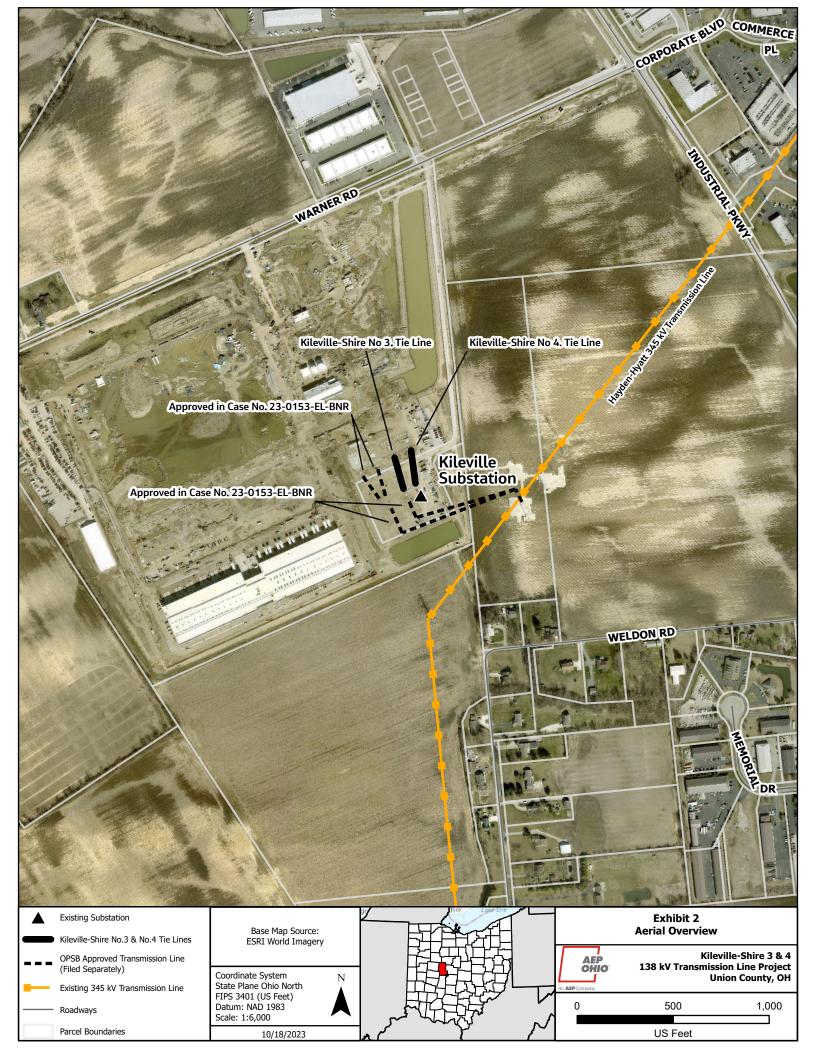
Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

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

CONSTRUCTION NOTICE KILEVILLE – SHIRE NO. 3 AND NO. 4 138-KV TIE LINES PROJECT

Appendix A Project Maps





CONSTRUCTION NOTICE KILEVILLE – SHIRE NO. 3 AND NO. 4 138-KV TIE LINES PROJECT

Appendix B Long Term Forecast Report and PJM Solution Submittal

PUCO Form FE-T9 Supplement: AEP Ohio

Specifications of Planned Transmission Lines

2. POINTS OF ORIGIN AND TERMINATION RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS 0.03 mi / 100 ft / 1 circuit 4. VOLTAGE: DESIGN / OPERATE 138 kV / 138 kV 5. APPLICATION FOR CERTIFICATE: 2023 6. CONSTRUCTION: 2024 7. CAPITAL INVESTMENT: 8. PLANNED SUBSTATION: 9. SUPPORTING STRUCTURES: Steel 10. PARTICIPATION WITH OTHER UTILITIES N/A 11. PURPOSE OF THE PLANNED TRANSMISSION LINE CONSEQUENCES OF LINE 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: Kileville - Shire #4 138 kV (TP2021576) Kileville - Shire #4 INTERMEDIATE STATIONAL RIGHTS-OF-WAY: LENGTH / WIDTH /	1.	LINE NAME AND NUMBER:	Jerome - Rohan #4 138 kV (TP2021576)		
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7. CAPITAL INVESTMENT: 8. PLANNED SUBSTATION: 9. SUPPORTING STRUCTURES: 10. PARTICIPATION WITH OTHER UTILITIES 11. TRANSMISSION LINE 12. CONSEQUENCES OF LINE 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: 2. POINTS OF ORIGIN AND TERMINATION 3. RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS 4. VOLTAGE: DESIGN / OPERATE 5. APPLICATION FOR CERTIFICATE: 6. CONSTRUCTION: 7. CAPITAL INVESTMENT: 8. PLANNED SUBSTATION: 9. SUPPORTING STRUCTURES: 10. PARTICIPATION WITH OTHER UTILITIES 11. PURPOSE OF THE PLANNED 12. CONSEQUENCES OF LINE 13. MISCELLANEOUS: 14. VOLTAGE: DESIGN / OPERATE 15. APPLICATION FOR CERTIFICATE: 16. CONSTRUCTION: 17. CAPITAL INVESTMENT: 18. PLANNED SUBSTATION: 19. SUPPORTING STRUCTURES: 10. PARTICIPATION WITH OTHER UTILITIES 11. TRANSMISSION LINE 12. CONSEQUENCES OF LINE 13. MISCELLANEOUS: 14. LINE NAME AND NUMBER: 15. Kileville - Shire #4 138 kV (TP2021576) 16. Kileville - Shire #4 138 kV (TP2021576) 17. Kileville - Shire #4 138 kV (TP2021576) 18. Kileville - Shire #4 138 kV (TP2021576) 19. Kileville - Shire #4 INTERMEDIATE STATION (Kileville - Shire #4 INTERMEDIATE STATION - N//A) 19. SIGHTS-OF-WAY: LENGTH / WIDTH / NICHE / N//A	5.	APPLICATION FOR CERTIFICATE:	2023		
8. PLANNED SUBSTATION: 9. SUPPORTING STRUCTURES: 10. PARTICIPATION WITH OTHER UTILITIES 11. PURPOSE OF THE PLANNED 12. CONSEQUENCES OF LINE 13. MISCELLANEOUS: 14. LINE NAME AND NUMBER: 15. POINTS OF ORIGIN AND TERMINATION 16. CIRCUITS 17. CAPITAL INVESTMENT: 18. PLANNED SUBSTATION: 19. SUPPORTING STRUCTURES: 20. PARTICIPATION FOR CERTIFICATE: 20. APPLICATION FOR CERTIFICATE: 20. DATE OF THE PLANNED 20. SUPPORTING STRUCTURES: 20. Steel 20. PARTICIPATION WITH OTHER UTILITIES 20. Service to new customer 20. Mileville - Shire #3 138 kV (TP2021576) 20. Mileville - Shire #3 INTERMEDIATE STATION (N/A) 20. SUPPORTING STRUCTURES: 20. Steel 20. PARTICIPATION WITH OTHER UTILITIES 20. Service to new customer 21. LINE NAME AND NUMBER: 22. POINTS OF ORIGIN AND TERMINATION 23. MISCELLANEOUS: 24. Kileville - Shire #4 138 kV (TP2021576) 25. Kileville - Shire #4 138 kV (TP2021576) 26. Kileville - Shire #4 INTERMEDIATE STATION (Kileville - Shire #4 INTERMEDIATE STATION - N/A) 34. MISCELLANEOUS: 35. MISCELLANEOUS: 36. CONSTRUCTION DEFERMENT OR TRANSMISSION LINE 36. CONSTRUCTION DEFERMENT OR TRANSMISSION LINE 37. CAPITAL INVESTMENT: 38. PLANNED SUPPORTING STRUCTURES: 39. 12. MISCELLANEOUS: 49. CAPITAL INVESTMENT: 40. VIANE AND NUMBER: 40. VIANE AND NUMBER: 41. KILEVILLE - Shire #4 138 kV (TP2021576) 41. KILEVILLE - Shire #4 INTERMEDIATE STATION - N/A	6.	CONSTRUCTION:	2024		
9. SUPPORTING STRUCTURES: 10. PARTICIPATION WITH OTHER UTILITIES 11. PURPOSE OF THE PLANNED 12. CONSEQUENCES OF LINE 13. MISCELLANEOUS: 14. LINE NAME AND NUMBER: 25. APPLICATION FOR CERTIFICATE: 26. CONSTRUCTION: 37. CAPITAL INVESTMENT: 38. PLANNED SUBSTATION: 39. SUPPORTING STRUCTURES: 40. PORTING STRUCTURES: 41. LINE NAME AND NUMBER: 42. VOLTAGE: DESIGN / OPERATE 43. VOLTAGE: DESIGN / OPERATE 44. VOLTAGE: DESIGN / OPERATE 55. APPLICATION FOR CERTIFICATE: 66. CONSTRUCTION: 67. CAPITAL INVESTMENT: 68. PLANNED SUBSTATION: 69. SUPPORTING STRUCTURES: 60. PARTICIPATION WITH OTHER UTILITIES 61. PARTICIPATION WITH OTHER UTILITIES 62. POINTS OF ORIGIN AND TERMINATION 63. MISCELLANEOUS: 64. VOLTAGE: DESIGN / OPERATE 65. APPLICATION FOR CERTIFICATE: 66. CONSTRUCTION: 67. CAPITAL INVESTMENT: 68. PLANNED SUBSTATION: 69. SUPPORTING STRUCTURES: 60. PARTICIPATION WITH OTHER UTILITIES 61. PARTICIPATION WITH OTHER UTILITIES 62. VIANUAL STRUCTURES 63. Service to new customer 64. VOLTAGE: DESIGN / OPERATE 65. APPLICATION WITH OTHER UTILITIES 66. CONSTRUCTION 67. CAPITAL INVESTMENT: 68. PLANNED SUBSTATION: 69. SUPPORTING STRUCTURES: 60. CONSTRUCTION WITH OTHER UTILITIES 60. CONSTRUCTION WITH OTHER UTILITIES 61. PARTICIPATION WITH OTHER UTILITIES 62. POINTS OF ORIGIN AND TERMINATION 63. MISCELLANEOUS: 64. VOLTAGE: DESIGN / OPERATE 65. APPLICATION WITH OTHER UTILITIES 66. CONSTRUCTION WITH OTHER UTILITIES 67. APPLICATION WITH OTHER UTILITIES 68. VIANUAL STRUCTURES 69. VIANUAL STRUCTURES 69. VIANUAL STRUCTURES 69. VIANUAL STRUCTURES 69. VIANUAL STRUCTURES 60. CONSTRUCTION WITH OTHER UTILITIES 60. CONSTRUCTURES 60. CONSTRUCTION WITH OTHER UTILITIES 60. CONSTRUCTURES 60. CONSTRUCTURES 60. CONSTRUCTURES 61. VIANUAL STRUCTURES 61. VIANUA	7.	CAPITAL INVESTMENT:	\$0.11 M		
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11. TRANSMISSION LINE CONSEQUENCES OF LINE 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: 2. POINTS OF ORIGIN AND TERMINATION 3. RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS 4. VOLTAGE: DESIGN / OPERATE 5. APPLICATION FOR CERTIFICATE: 6. CONSTRUCTION: 7. CAPITAL INVESTMENT: 8. PLANNED SUBSTATION: 9. SUPPORTING STRUCTURES: 10. PARTICIPATION WITH OTHER UTILITIES 11. CONSEQUENCES OF LINE 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 14. LINE NAME AND NUMBER: 15. Kileville - Shire #3 INTERMEDIATE STATION CAPITAL INVESTMENT: 16. CONSTRUCTION: 17. CAPITAL INVESTMENT: 18. PLANNED SUBSTATION: 19. SUPPORTING STRUCTURES: 10. PARTICIPATION WITH OTHER UTILITIES 11. CONSEQUENCES OF LINE 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 14. LINE NAME AND NUMBER: 15. Kileville - Shire #4 138 kV (TP2021576) Kileville - Shire #4 INTERMEDIATE STATION - N/A KILEVILLE - Shire #4 INTERMEDIATE STATION - N/A	10.	PARTICIPATION WITH OTHER UTILITIES	N/A		
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3. CIRCUITS 4. VOLTAGE: DESIGN / OPERATE 5. APPLICATION FOR CERTIFICATE: 2023 6. CONSTRUCTION: 2024 7. CAPITAL INVESTMENT: \$0.12 M 8. PLANNED SUBSTATION: N/A 9. SUPPORTING STRUCTURES: Steel 10. PARTICIPATION WITH OTHER UTILITIES N/A 11. TRANSMISSION LINE CONSEQUENCES OF LINE CONSEQUENCES OF LINE TERMINATION 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: Kileville - Shire #4 138 kV (TP2021576) CRIGHTS-OF-WAY: LENGTH / WIDTH /	2.	POINTS OF ORIGIN AND TERMINATION	Kileville - Shire #3 INTERMEDIATE STATIONS - N/A		
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5. APPLICATION FOR CERTIFICATE: 2023 6. CONSTRUCTION: 2024 7. CAPITAL INVESTMENT: \$0.12 M 8. PLANNED SUBSTATION: N/A 9. SUPPORTING STRUCTURES: Steel 10. PARTICIPATION WITH OTHER UTILITIES N/A 11. PURPOSE OF THE PLANNED TRANSMISSION LINE CONSEQUENCES OF LINE CONSEQUENCES OF LINE Unable to serve new customer 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: Kileville - Shire #4 138 kV (TP2021576) 2. POINTS OF ORIGIN AND TERMINATION Kileville - Shire #4 INTERMEDIATE STATION - N/A	J.	CIRCUITS	0.03 mi / 100 ft / 1 circuit		
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11. PURPOSE OF THE PLANNED TRANSMISSION LINE CONSEQUENCES OF LINE 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: POINTS OF ORIGIN AND TERMINATION RIGHTS-OF-WAY: LENGTH / WIDTH /	9.	SUPPORTING STRUCTURES:	Steel		
TRANSMISSION LINE CONSEQUENCES OF LINE 12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: CONSTRUCTION DEFERMENT OR Unable to serve new customer Kileville - Shire #4 138 kV (TP2021576) Kileville - Shire #4 INTERMEDIATE STATION RIGHTS-OF-WAY: LENGTH / WIDTH /	10.	PARTICIPATION WITH OTHER UTILITIES	N/A		
12. CONSTRUCTION DEFERMENT OR TERMINATION 13. MISCELLANEOUS: 1. LINE NAME AND NUMBER: 2. POINTS OF ORIGIN AND TERMINATION RIGHTS-OF-WAY: LENGTH / WIDTH /	11.		Service to new customer		
1. LINE NAME AND NUMBER: 2. POINTS OF ORIGIN AND TERMINATION RIGHTS-OF-WAY: LENGTH / WIDTH /	12.	CONSTRUCTION DEFERMENT OR	Unable to serve new customer		
2. POINTS OF ORIGIN AND TERMINATION Kileville - Shire #4 INTERMEDIATE STATIC - N/A	13.	MISCELLANEOUS:			
2. POINTS OF ORIGIN AND TERMINATION - N/A	1.	LINE NAME AND NUMBER:	Kileville - Shire #4 138 kV (TP2021576)		
RIGHTS-OF-WAY: LENGTH / WIDTH /	2.	POINTS OF ORIGIN AND TERMINATION	Kileville - Shire #4 INTERMEDIATE STATIONS - N/A		
3. CIRCUITS 0.03 mi / 100 ft / 1 circuit	3.	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS	0.03 mi / 100 ft / 1 circuit		
4. VOLTAGE: DESIGN / OPERATE 138 kV / 138 kV	4.	VOLTAGE: DESIGN / OPERATE	138 kV / 138 kV		

PUCO Form FE-T9 Supplement:

AEP Ohio

Specifications of Planned Transmission Lines

5.	APPLICATION FOR CERTIFICATE:	2023
6.	CONSTRUCTION:	2024
7.	CAPITAL INVESTMENT:	\$0.12 M
8.	PLANNED SUBSTATION:	N/A
9.	SUPPORTING STRUCTURES:	Steel
10.	PARTICIPATION WITH OTHER UTILITIES	N/A
11.	I RANSMISSION LINE	Service to new customer
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION	Unable to serve new customer
13.	MISCELLANEOUS:	
1.	LINE NAME AND NUMBER:	Anguin - QTS Cust #1 &2 138 kV (TP2022073)
2.	POINTS OF ORIGIN AND TERMINATION	Anguin - QTS Cust #1 &2 INTERMEDIATE STATIONS - N/A
3.	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS	0.03 mi / 100 ft / 2 circuit
4.	VOLTAGE: DESIGN / OPERATE	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	2023
6.	CONSTRUCTION:	2024
7.	CAPITAL INVESTMENT:	\$3.19 M
8.	PLANNED SUBSTATION:	N/A
9.	SUPPORTING STRUCTURES:	Steel
10.	PARTICIPATION WITH OTHER UTILITIES	N/A
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE	Service to new customer
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION	Unable to serve new customer
13.	MISCELLANEOUS:	
1.	LINE NAME AND NUMBER:	Anguin - QTS Cust #3 138 kV (TP2022073)
2.	POINTS OF ORIGIN AND TERMINATION	Anguin - QTS Cust #13 INTERMEDIATE STATIONS - N/A
3.	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS	0.03 mi / 100 ft / 1 circuit
1	VOLTAGE: DESIGN / OPERATE	138 kV / 138 kV
	APPLICATION FOR CERTIFICATE:	2023
	CONSTRUCTION:	2024
	CAPITAL INVESTMENT:	\$1.34 M
	-	
	PLANNED SUBSTATION:	N/A
9.	SUPPORTING STRUCTURES:	Steel



Need Number: AEP-2021-OH049

Process Stage: Solution Meeting 5/9/2023

Previously Presented: Needs Meeting 7/16/2021, Need Meeting 9/17/2021 & Need

Meeting 2/17/2023

Project Driver: Customer Service

Specific Assumption Reference: AEP Connection Requirements for the AEP

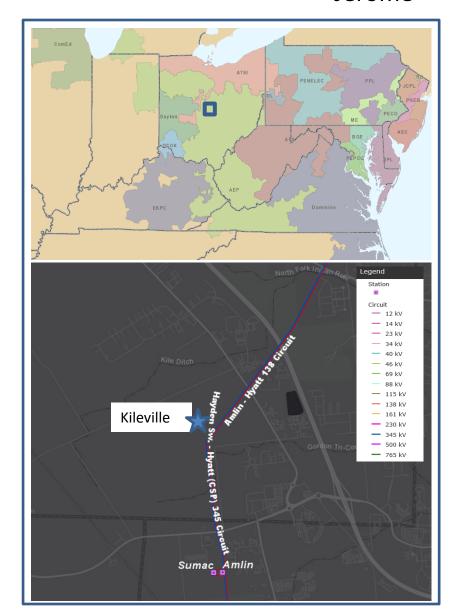
Transmission System (AEP Assumptions Slide 12)

Problem Statement:

Jerome Delivery Point (AEP) 138 kV:

- A customer has requested new transmission service in Plain City, Ohio.
- The delivery point will be used to serve a customer with high potential for rapid load growth. The initial load will be 106 MW with a potential future peak load demand of 203 MW.
- Service is requested by June 2024.
- The customer communicated a much more aggressive load ramp/build out schedule that would put their peak load at approximately 160 MW by early 2025 at the site.
- This Need was originally presented as a Buckeye Power request; The customer has since requested service from AEP Ohio at the site. As part of this request, the customer has indicated the need for additional feeds at the delivery which will bring the load amount up to 203 MW.

AEP Transmission Zone M-3 Process Jerome





AEP Transmission Zone M-3 Process Dublin & Hilliard, OH

Need Number: AEP-2021-OH049

Process Stage: Solutions Meeting 5/9/2023

Proposed Solution:

The following scope of work is all direct connect facilities to physically connect demand to the grid.

Jerome 138 kV: Construct a greenfield Jerome station with (11) 138kV 63kA 4000A circuit breakers in breaker and half bus configuration. Construct ~ 2.5 miles of double circuit 138kV transmission line extending from Celtic & Kileville stations utilizing 2-bundled ACSS Cardinal 954 (45/7) conductor, SE rating 1061 MVA. Construct ~1.6 miles of double circuit 138kV transmission line extending from Jerome to cut-in back to Hyatt – Amlin line utilizing 2-bundled ACSS Cardinal 954 (45/7) conductor, SE rating 1061 MVA. Construct (4) 138 kV tie lines to the customers dead end structures ~0.05 miles utilizing ACSR Dove 556.5 (26/7) conductor SE 284 MVA. Customers will be directly connected at this station. Cost: \$30 M

CONSTRUCTION NOTICE KILEVILLE – SHIRE NO. 3 AND NO. 4 138-KV TIE LINES PROJECT Appendix C Agency Coordination Letters



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

April 1, 2022

Matthew Teitt Stantec Consulting Services, Inc. 1500 Lake Shore Drive Suite 100 Columbus OH 43204

Re: 22-0245; AEP Kileville Station Project

Project: The proposed project includes the construction of a new 138 kV substation.

Location: The proposed project is located in Jerome Township, Union County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

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

Least Bittern (*Ixobrychus exilis*), T Sora Rail (*Porzana carolina*), SC King Rail (*Rallus elegans*), E Virginia Rail (*Rallus limicola*), SC

The review was performed on the project area specified in the request as well as an additional one-mile radius. Records searched date from 1980. Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; P = state species of concern; P = state special interest; P = state status under review; P = state presumed extirpated in Ohio; P = state redardly endangered, and P = state rederally threatened.

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

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

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

The project is within the vicinity of records for the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Erin Hazelton at Erin.hazelton@dnr.ohio.gov).

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally threatened species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible.

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "Rangewide Indiana Bat Survey Guidelines." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Erin Hazelton for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the following listed mussel species.

Federally Endangered

nuffbox (*Epioblasma triquetra*) clubshell (*Pleurobema clava*) Northern riffleshell (*Epioblasma torulosa rangiana*) rayed bean (*Villosa fabalis*)

<u>Federally Threatened</u>

rabbitsfoot (Quadrula cylindrica cylindrica)

State Endangered

elephant-ear (Elliptio crassidens crassidens)

State Threatened

pondhorn (*Uniomerus tetralasmus*)

Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this project is not likely to impact these species.

The project is within the range of the following listed fish species.

State Threatened

the Tippecanoe darter (Etheostoma Tippecanoe)

The DOW recommends no in-water work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the American bittern (*Botaurus lentiginosus*), a state endangered bird. Nesting bitterns prefer large undisturbed wetlands that have scattered small pools amongst dense vegetation. They occasionally occupy bogs, large wet meadows, and dense shrubby swamps. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, the project is not likely to impact this species.

The project is within the range of the king rail (*Rallus elegans*), a state endangered bird. Nests for this species are deep bowls constructed out of grass and usually hidden very well in marsh vegetation. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If no wetland habitat will be impacted, the project is not likely to impact this species.

The project is within the range of the lark sparrow (*Chondestes grammacus*), a state endangered bird. This sparrow nests in grassland habitats with scattered shrub layers, disturbed open areas, as well as patches of bare soil. In the Oak Openings area west of Toledo, lark sparrows occupy open grass and shrubby fields along sandy beach ridges. These summer residents normally migrate out of Ohio shortly after their young fledge or leave the nest. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

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

The project is within the range of the loggerhead shrike (*Lanius ludovicianus*), a state endangered bird. The loggerhead shrike nests in hedgerows, thickets and fencerows. They hunt over hayfields, pastures, and other grasslands. If thickets or other types of dense shrubbery habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 1 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus hudsonis*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species'

nesting period of April 15 through July 31. If this habitat will not be impacted, the project is not likely to impact this species.

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

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

The 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 Mike Pettegrew at mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator From: Ohio, FW3
To: Gillette, Tyler

Cc: nathan.reardon@dnr.state.oh.us; Parsons, Kate; Teitt, Matthew; Grant S Stuller

Subject: Proposed 138 kV Kileville Station Project, Union County, Ohio

Date: Wednesday, April 13, 2022 2:44:19 PM

Attachments: image.png image.png



UNITED STATES DEPARTMENT OF THE INTERIOR

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



Project Code: 2022-0012784

Dear Mr. Gillette,

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: The proposed project is in the vicinity of one or more confirmed records of Indiana bats. Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. 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 known or assumed present. Please note that, because Indiana bat presence has already been confirmed in the project vicinity, any additional summer surveys would not constitute presence/absence surveys for this species.

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

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

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

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, 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



In reply, refer to 2022-UNI-55202

July 25, 2022

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

RE: Kileville Station Project, Jerome Township, Union County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received June 27, 2022 regarding the proposed Kileville Station Project, Jerome Township, Union County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the *Phase I Cultural Resource Management Investigations for the 2.3 ha (5.7 ac) Kileville Station Project in Jerome Township, Union County, Ohio* by Ryan J. Weller and Scott McIntosh (Weller & Associates, Inc. 2022).

Efforts were made by Weller & Associates, Inc. to complete archaeological investigations within the project area; however, the entire project area has been recently disturbed by the surrounding development. Though it is our understanding this disturbance did not take place by American Electric Power (AEP) or their subcontractors, unfortunately, this makes the project area uninvestigable for archaeological resources. Our office is unable to comment on the project's effect to archaeological resources due to the high level of recent disturbance on site.

A literature review and field survey were completed as part of the investigations. One (1) extant property fifty years of age or older was identified within the Area of Potential Effects (APE). It is Weller's recommendation that this property is not eligible for listing in the National Register of Historic Places (NRHP). Our office agrees with Weller's recommendations regarding eligibility.

Based on the information provided, our office has determined the proposed project will not affect aboveground historic properties. However, we are unable to comment on the project's affect to archaeological resources, due to the recent disturbance on site by the surrounding development. 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 khorrocks@ohiohistory.org or Joy Williams at jwilliams@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Krista Horrocks, Project Reviews Manager

Resource Protection and Review

CONSTRUCTION NOTICE KILEVILLE – SHIRE NO. 3 AND NO. 4 138-KV TIE LINES PROJECT

Appendix D Wetland Delineation Report



Kileville 138 kV Station Project, Union County, Ohio

Ecological Survey Report

Prepared for:

AEP Ohio Transmission Company, Inc. 8600 Smiths Mill Road New Albany, OH 43054

Prepared by:

Stantec Consulting Services Inc. 1500 Lake Shore Drive, Suite 100 Columbus, OH 43204

December 5, 2022

Sign-off Sheet

This document entitled Kileville 138 kV Station Project Ecological Resources Inventory Report was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of AEP Ohio Transmission Company, Inc. (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

(signature)

Zoe True

Reviewed by Charlie alla

(signature)

Charlie Allen

Reviewed by

(signature)

Michelle Kearns

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KILEVILLE 138 KV STATION PROJECT ECOLOGICAL RESOURCES INVENTORY REPORT

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KILEVILLE 138 KV STATION PROJECT ECOLOGICAL RESOURCES INVENTORY REPORT

Introduction
December 5, 2022

1.0 INTRODUCTION

AEP Ohio Transmission Company, Inc. (AEP) is proposing to construct a new 138 kilovolt (kV) station in Union County, Ohio. The Kileville 138 kV Station Project (the Project) is located in Jerome Township, Ohio (Figure 1, Appendix B). The Project will include the construction of a new 138 kV station with associated structures and access road. An approximate 5-acre study area for the proposed new station was surveyed for wetlands, waterbodies, open water features, upland drainage features, and potential threatened, endangered, and rare species habitat by Stantec Consulting Services Inc. (Stantec) biologists on February 23, September 26, and November 30, 2022 (Figure 2, Appendix B). The approximate locations of features located up to 50 feet outside of the Project area were also recorded during the field surveys, where landowner access was permitted. However, no data forms were collected on features that did not extend into the Project area. These features are shown on the Figure 2 map in Appendix B as "approximate" wetlands, streams (waterways), open waters, and upland drainage features.

Methods December 5, 2022

2.0 METHODS

2.1 WETLAND DELINEATION

Prior to completing the field surveys, a desktop review of the Project area was conducted using U.S. Geological Survey (USGS) topographic maps, National Wetlands Inventory (NWI) maps, U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil survey data, and aerial imagery mapping. Stantec completed a wetland delineation study in accordance with the Corps of Engineers Wetlands Delineation Manual (USACE Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0; USACE 2012). Wetland categories were classified using the Ohio Rapid Assessment Method (ORAM) for Wetlands Version 5.0 (Mack 2001).

2.2 STREAM DELINEATION

Streams that demonstrated a continuously defined channel (bed and bank), ordinary high water mark (OHWM), and the disturbance of terrestrial vegetation were delineated within the Project area, per the protocols outlined in the USACE's Guidance on Ordinary High Water Mark Identification (Regulatory Guidance Letter, No. 05-05; USACE 2005). Delineated streams were classified as ephemeral, intermittent, or perennial per definitions in the 22250 Federal Register/Vol. 85, No. 77 (effective June 22, 2020; USACE 2020). Functional assessment of streams within the Project area was based on completion of the Ohio Environmental Protection Agency's (OEPA) Headwater Habitat Evaluation Index (HHEI; OEPA 2020) and/or Qualitative Habitat Evaluation Index (QHEI; OEPA 2006). The centerline and/or the OHWM locations of each waterway were identified and surveyed using a handheld sub-meter accuracy global positioning system (GPS) unit and mapped with GIS software. Additionally, the locations of upland drainage features (which lacked a continuously defined bed and bank/OHWM) identified within the Project area were also recorded with a sub-meter accuracy GPS unit during the field surveys.

2.3 RARE SPECIES

Prior to conducting the field surveys, Stantec contacted the Ohio Department of Natural Resources (ODNR) and the U.S. Fish and Wildlife Service (USFWS) for information regarding rare, threatened, or endangered species and their habitats of concern within the vicinity of the Project area (Appendix E – Agency Correspondence). To assess potential impacts to rare, threatened, or endangered species, Stantec scientists conducted a pedestrian reconnaissance of the Project area, collected information on existing habitats within the Project area, and assessed the potential for these habitats to be used by these species.

Results December 5, 2022

3.0 RESULTS

3.1 TERRESTRIAL HABITAT

Stantec completed field surveys within the Project area on February 23, September 26, and November 30, 2022, for potentially suitable habitats for threatened and endangered species. Figure 3 (Appendix B) shows the land cover, vegetation communities, and any identified rare, threatened, or endangered species habitats observed within the Project area during the habitat assessment surveys. Representative photographs of the vegetation communities/habitats identified within the Project area are included in Appendix D-2 of this report (photo locations are shown on Figure 3 in Appendix B). Information regarding the vegetation communities/habitats identified within the Project area are provided in Table 1.

Table 1. Vegetation Communities and Land Cover Found within the Kileville 138 kV Station Project Area, Union County, Ohio

Vegetation Communities and Land Cover Types within the Project Area	Degree of Human-Related Ecological Disturbance	Unique, Rare, or High Quality?	Approximate Acreage Within Project Area
Industrial Land	Extreme Disturbance/Ruderal Community (dominated by opportunistic invaders, planted non- native species, and/or native highly tolerant taxa).	No	4.69
		TOTAL	4.69

3.2 WETLANDS

Stantec completed field surveys for wetlands within the Project area on February 23, September 26, and November 30, 2022. The Project area contains three National Wetland Inventory (NWI) features (Table 2). Stantec did not identify any wetlands located within the Project area.

KILEVILLE 138 KV STATION PROJECT ECOLOGICAL RESOURCES INVENTORY REPORT

Results

December 5, 2022

Table 2. Summary of NWI Disposition within the Kileville 138 kV Station Project Area, Union County, Ohio

NWI Code	NWI Description	Figure 2 Page Number	Related Field Inventoried Resource	Comments
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	1	SP01	At the time of the field survey the area consisted of filled gravel. A sample point was collected within the NWI during a previous delineation (02/23/2022) conducted by Stantec. The field collected SP01 determined the area to be upland at the time of the previous delineation.
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	1	SP02	At the time of the field survey the area consisted of filled gravel. A sample point was collected within the NWI during a previous delineation (02/23/2022) conducted by Stantec. The field collected SP02 determined the area to be upland at the time of the previous delineation.
R4SBC	Riverine, Intermittent, Streambed, Seasonally Flooded	1	SP03	At the time of the field survey the area consisted of filled gravel.

3.3 STREAMS

No streams were delineated within the Project area during the field surveys on February 23, September 26, and November 30, 2022. The Project area does contain a mapped National Hydrography Data (NHD) features or U.S. Geological Survey (USGS) named streams.

3.4 OPEN WATERS

No open waters (i.e., ponds, lakes) were delineated within the Project area during the field surveys completed on February 23 and November 30, 2022.

Results December 5, 2022

3.5 RARE, THREATENED, OR ENDANGERED SPECIES HABITAT

Table 3. Summary of Potential Federal and Ohio State-Listed Species within the Kileville 138 kV Station Project Area, Union County, Ohio

Common/Scientific Names	*State Listed Status	*Federally Listed Status	Typical Habitat	Habitat Observed	Agency Comment** (Appendix E)	Potential Impacts and Avoidance Dates
Indiana bat / Myotis sodalis	E	E	The Indiana bat is likely distributed over the entire State of Ohio, though not uniformly. This species generally forages in openings and edge habitats within upland and floodplain forest, but they also forage over old fields and pastures (Brack et al. 2010). Natural roost structures include trees (live or dead) with exfoliating bark, and exposure to solar radiation. Other important factors for roost trees include relative location to other trees, a permanent water source and foraging areas. Dead trees are preferred as maternity roosts; however, live trees are often used as secondary roosts depending on microclimate conditions (USFWS 2007, USFWS 2020b). Roosts have also occasionally been found to consist of cracks and hollows in trees, utility poles, buildings, and bat boxes. Primarily use caves for hibernacula, although are also known to hibernate in abandoned underground mines (Brack et al. 2010).	No suitable habitat was observed within the project area.	ODNR – The Project is within the vicinity of records for the Indiana bat. Because presence of state endangered bat species have been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with diameter at breast height (dbh) ≥ 20 inches if possible. In addition, the DOW recommends a desktop habitat assessment, followed by a field assessment if needed, to determine if there are potential hibernacula present within the Project area. USFWS – The proposed Project is in the vicinity of one or more confirmed records of Indiana bat. Should the proposed Project site contain trees ≥3 inches dbh, USFWS recommends avoiding tree removal whenever possible. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, USFWS recommends removal only occur between October 1 and March 31. Please note that, because Indiana bat presence has already been confirmed in the Project vicinity, any additional summer surveys would not constitute presence/absence surveys for this species.	No suitable habitat was observed within the project area. Therefore, this Project is not likely to impact this species.
Northern Long-eared Bat / Myotis septentrionalis	Е	T	The northern long-eared bat is found throughout Ohio. This species generally forages in forested habitat and openings in forested habitat and utilizes cracks, cavities, and loose bark within live and dead trees, as well as buildings as roosting habitat (Brack et al. 2010; USFWS 2020a). The species utilizes caves and abandoned mines as winter hibernacula. Various sized caves are used providing they have a constant temperature, high humidity, and little to no air current (Brack et al. 2010).	No suitable habitat was observed within the project area.	 ODNR – This Project lies within the range of the northern long-eared bat. During the spring and summer (April 1 through September 30), this bat species predominantly roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with dbh ≥ 20 inches if possible. In addition, the DOW recommends a desktop habitat assessment, followed by a field assessment if needed to determine if there are potential hibernacula present within the Project area. USFWS - Recommends avoiding tree removal whenever possible. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, USFWS recommends removal only occur between October 1 and March 31. Incidental take of northern long-eared bats from most tree clearing is exempt by a 4(d) rule. 	No suitable habitat was observed within the project area. Therefore, this Project is not likely to impact this species.

Results

Common/Scientific Names	*State Listed Status	*Federally Listed Status	Typical Habitat	Habitat Observed	Agency Comment** (Appendix E)	Potential Impacts and Avoidance Dates
Little Brown Bat/ Myotis lucifugus	E	N/A	This bat uses a wide range of habitats and man-made structures for roosting, including buildings and attics. Less frequently, they use hollows of trees. Winter hibernation sites typically consist of caves, tunnels, abandoned mines. Foraging habitat for this species generally occurs over water, along the edges of lakes and stream or in woodlands near waterbodies (NatureServe 2022).	No suitable habitat was observed within the project area.	ODNR - This Project lies within the range of the little brown bat. During the spring and summer (April 1 through September 30), this bat species predominantly roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with dbh ≥ 20 inches if possible. In addition, the DOW recommends a desktop habitat assessment, followed by a field assessment if needed to determine if there are potential hibernacula present within the Project area.	No suitable habitat was observed within the project area. Therefore, this Project is not likely to impact this species.
Tricolored Bat/ Perimyotis subflavus	Е	N/A	This species is found throughout Ohio and is associated with forested landscapes, foraging near trees and along waterways. Maternity and summer roosts usually occur in dead or live tree foliage, or in the south, in clumps of Spanish moss. Maternity colonies may also use tree cavities or man-made structures, such as buildings or bridges. Caves, mines, and rock crevices may be used as night roosts between foraging (NatureServe 2022).	No suitable habitat was observed within the project area.	ODNR - This Project lies within the range of the tricolored bat. During the spring and summer (April 1 through September 30), this bat species predominantly roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with dbh ≥ 20 inches if possible. In addition, the DOW recommends a desktop habitat assessment, followed by a field assessment if needed to determine if there are potential hibernacula present within the Project area. USFWS – No Comment.	No suitable habitat was observed within the project area. Therefore, this Project is not likely to impact this species.
King Rail / Rallus elegans	Е	N/A	Occurs in freshwater marshes, upland – wetland marsh edges, rice fields or similar flooded farmlands, shrub swamps (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Natural Heritage Database has a record of this species at or within a one-mile radius of the Project area. If marsh vegetation will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If no wetland habitat will be impacted, the Project is not likely to impact this species. USFWS – No Comment.	No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.
American bittern / Botaurus lentiginosus	E	N/A	Occurs primarily in large freshwater and (less often) brackish marshes, including lake and pond edges where cattails, sedges, or bulrushes are plentiful and marshes where there are patches of open water and aquatic bed vegetation (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – If large undisturbed wetlands with scattered small pools amongst dense vegetation will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, the Project is not likely to impact this species. USFWS – No Comment.	No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.
Lark Sparrow / Chondestes grammacus	E	N/A	Breeding habitat includes various open situations with scattered bushes and trees: shortgrass, mixed-grass, and tallgrass prairie with a shrub component and sparse litter; parkland, sandhills; barrens; old fields; cultivated fields; shrub thickets (NatureServe 2022)	No suitable habitat was observed within the Project area.	ODNR – If grassland habitat with scattered shrub layers, disturbed open areas, as well as patches of bare soil will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this habitat will not be impacted, this Project is not likely to impact this species.	No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.

Results

Common/Scientific Names	*State Listed Status	*Federally Listed Status	Typical Habitat	Habitat Observed Agency Comment** (Appendix E)		Potential Impacts and Avoidance Dates
					USFWS – No Comment.	
Loggerhead shrike / Lanius Iudovicianus	E	N/A	Occurs in open country with scattered trees and shrubs, savanna, desert scrub, and, occasionally, open woodland; often perches on poles, wires, or fenceposts (NatureServe 2022).	No suitable habitat was observed within the Project area.		No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.
					ODNR - If marsh or grassland habitat will be impacted,	
Northern Harrier / Circus hudsonis	E	N/A	Breeds in wide-open habitats ranging from Arctic tundra to prairie grasses to fields and marshes. Nests are concealed on the ground in grasses or wetland vegetation (All About Birds 2022).	No suitable habitat was observed within the Project area.	construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this Project is not likely to impact this species.	No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.
					USFWS – No Comment	
Least Bittern / Ixobrychus exilis	Т	N/A	Occurs in tall emergent vegetation in marshes, primarily freshwater, less commonly in coastal brackish marshes and mangrove swamps. Prefers marshes with scattered bushes or other woody growth (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Natural Heritage Database has a record of this species at or within a one-mile radius of the Project area. If emergent wetland habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this habitat will not be impacted, this Project is not likely to impact this species.	No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.
					USFWS – No Comment.	
Sora Rail / Porzana carolina	SC	N/A	Occurs primarily in shallow freshwater emergent wetlands, less frequently in bogs, fens, wet meadows, and flooded fields, sometimes foraging on open mudflats adjacent to marshy habitat (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Natural Heritage Database has a record of this at or within a one-mile radius of the Project area. USFWS – No Comment.	No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.
Virginia Rail / Rallus limicola	SC	N/A	Occurs in freshwater and occasionally brackish marshes, mostly in cattails, reeds, and deep grasses, also in or close to other emergent vegetation (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Natural Heritage Database has a record of this species at or within a one-mile radius of the Project area. USFWS – No Comment.	No suitable habitat was observed within the Project area. Therefore, this Project is not likely to impact this species.
Clubshell / Pleurobema clava	E	Е	Despite the type locality of Lake Erie, this is a species of small to medium sized rivers and streams (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Project is within the range of this species. Due to the location, and that there is no in-water work	No suitable habitat was observed within the Project area. In addition, no in- water work is proposed in a perennial stream. Therefore, this Project is not likely to impact this species.
Northern Riffleshell / Epioblasma torulosa rangiana	E	E	Preferred habitat is swiftly moving water. The high oxygen concentrations in swift streams may be necessary for survival. It is a species of riffle areas of smaller streams, and as such has fared better than larger river species (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Project is within the range of this species. Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this Project is not likely to impact this species. USFWS – Due to the Project type, size, and location, USFWS does not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat.	No suitable habitat was observed within the Project area. In addition, no in- water work is proposed in a perennial stream. Therefore, this Project is not likely to impact this species.

Results

Common/Scientific Names	*State Listed Status	*Federally Listed Status	Typical Habitat	Habitat Observed	Agency Comment** (Appendix E)	Potential Impacts and Avoidance Dates
Rayed Bean / Villosa fabalis	E	Е	It is generally known from smaller headwater creeks, but records exist in larger rivers. They are usually found in or near shoal or riffle areas, and in the shallow wave-washed areas of glacial lakes, including Lake Erie (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Project is within the range of this species. Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this Project is not likely to impact this species. USFWS – Due to the Project type, size, and location, USFWS does not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat.	No suitable habitat was observed within the Project area. In addition, no in- water work is proposed in a perennial stream. Therefore, this Project is not likely to impact this species.
Snuffbox / Epioblasma triquetra	E	E	Occurs in medium-sized streams to large rivers generally on mud, rocky, gravel, or sand substrates in flowing water. Often deeply buried in substrate and overlooked by collectors (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Project is within the range of this species. Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this Project is not likely to impact this species. USFWS – Due to the Project type, size, and location, USFWS does not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat.	No suitable habitat was observed within the Project area. In addition, no in- water work is proposed in a perennial stream. Therefore, this Project is not likely to impact this species.
Elephant-ear / Elliptio crassidens	E	N/A	An inhabitant of channels in large creeks to rivers with moderate to swift currents, primarily on sand and limestone or rock substrates (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Project is within the range of this species. Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this Project is not likely to impact this species USFWS – No Comment.	No suitable habitat was observed within the Project area. In addition, o in-water work is proposed in a perennial stream. Therefore, this Project is not likely to impact this species.
Rabbitsfoot / Quadrula cylindrica cylindrica	E	Т	The typical habitat is small to medium rivers with moderate to swift currents, and in smaller streams it inhabits bars or gravel and cobble close to the fast current (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Project is within the range of this species. Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this Project is not likely to impact this species USFWS – Due to the Project type, size, and location, USFWS does not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat.	No suitable habitat was observed within the Project area. In addition, due to the location and habitat within the Project area, this Project is not likely to impact this species.
Pondhorn / Uniomerus tetralasmus	Т	N/A	Typically inhabits quite or slow-moving, shallow waters of shoughs, borrow pits, ponds, ditches, and meandering streams. It is tolerant of poor water conditions and can be found well buried in a substrate of fine silt and/or mud (NatureServe 2022).	No suitable habitat was observed within the Project area.	ODNR – The Project is within the range of this species. Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this Project is not likely to impact this species USFWS – No Comment.	No suitable habitat was observed within the Project area. In addition, no in- water work is proposed in a perennial stream. Therefore, this Project is not likely to impact this species.

Results

Common/Scientific Names	*State Listed Status	*Federally Listed Status	Typical Habitat	Habitat Observed	Agency Comment** (Appendix E)	Potential Impacts and Avoidance Dates
Tippecanoe Darter / Etheostoma tippecanoe	NA	N/A	This fish prefers medium to large streams in the Ohio River drainage system and are found in riffles of moderate current with substrate of gravel or cobble sized rocks (ODNR Division of Wildlife 2022).	No suitable habitat was observed within the Project area.	ODNR - The Project is within the range of this species. The DOW recommends no in-water work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no inwater work is proposed in a perennial stream, this Project is not likely to impact this species. USFWS – No Comment.	No suitable habitat was observed within the Project area. In addition, no in- water work is proposed in a perennial stream. Therefore, this Project is not likely to impact this species.

^{*}Status key: E=Endangered; T=Threatened; PT=Potentially Threatened; SC=Species of Concern

^{**}The information is based on the literature review response information from ODNR and USFWS and is study area/project specific.

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4.0 CONCLUSIONS AND RECOMMENDATIONS

Stantec conducted a wetland and waterbodies delineation and a preliminary habitat assessment for threatened and endangered species within the Project area on February 23, September 26, and November 30, 2022. During the field surveys, one upland drainage feature (UDF) was delineated within the Project area. No wetlands, streams or open water features were observed within the Project area. No U.S. Geological Survey named streams are depicted within the project area; however there are three NWI features depicted within the Project area.

The information provided by Stantec regarding wetland and stream boundaries is based on an analysis of the wetland and upland conditions present within the Project area at the time of the field work. The delineations were performed by experienced and qualified professionals using regulatory agency-accepted practices and sound professional judgment.

An approved jurisdictional determination (AJD) and no permit required letter drafted by the USACE on February 1, 2021 that overlaps a portion of the Project area associated with this report was provided to AEP (Appendix F). The AJD states that Ditch 1 (see Proposed Site Plan and Impacts Map; Appendix F) is a ditch with ephemeral flow that was constructed in uplands and is therefore not a jurisdictional water of the United States (WOTUS) and is not subject to regulation under section 404. In addition, Wetlands A, B and C (see Proposed Site Plan and Impacts Map; Appendix F) do not abut a water identified as a jurisdictional WOTUS, are not inundated by flooding from a WOTUS in a typical year and are not physically separated from a WOTUS only by a natural berm, bank, dune, or similar natural feature. Therefore, USACE determined that Wetlands A, B, and C are not considered jurisdictional WOTUS and are not subject to regulation under Section 404. None of the above wetlands or ditches were delineated within the Project area covered in this report. The previously identified ditch and wetlands referenced in the AJD have been filled and were not observed at the time of the most recent site visits conducted by Stantec on September 26 and November 30, 2022. The OEPA General Isolated Wetland Permit Application detailing the proposed impacts to the non-jurisdictional ditch and wetlands is also included in Appendix F.

An ODNR Ohio Natural Heritage Program data request and environmental review request letter was sent to the ODNR Office of Real Estate on March 7, 2022. The ODNR Office of Real Estate response letter dated April 1, 2022, stated that the entire state of Ohio is within the range of the Indiana bat, northern long-eared bat, little brown bat, and the tricolored bat. In addition, the Project is within the vicinity of records for the Indiana bat. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area.

During the spring and summer (April 1 through September 30), the Indiana, northern long-eared, little brown, and tricolored bat species predominantly roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The DOW recommends tree cutting only occur from

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October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with dbh \geq 20 inches if possible.

The DOW also recommends conducting a desktop habitat assessment, followed by a field assessment if needed, to determine if there are potential hibernaculum(a) present within 0.25 miles of the Project area. Stantec completed a habitat desktop assessment in accordance with the 2020 Range-wide Indiana Bat Survey Guidelines (USFWS 2020b) utilizing available ODNR websites, including data on known abandoned or active mines (ODNR 2022a) and locations of known or suspected karst geology (ODNR 2022b). The desktop assessment did not identify and mines within a 0.25-mile buffer of the Project area (Figure 4). No potential hibernacula or summer foraging and roosting habitat were observed within the Project area during the field surveys. Therefore, impact to these species are not likely.

According to the ODNR response letter, the Project is within the range of the federally-listed endangered snuffbox, clubshell, northern riffleshell, and rayed bean, the federally threatened rabbitsfoot, the state-listed endangered elephant-ear, and the state-listed threatened pondhorn. However, due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this Project is not likely to impact these species.

According to the ODNR response letter, the Project is within the range of the state-listed threatened Tippecanoe darter. The DOW recommends no in-water work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. However, no in-water work is proposed in a perennial stream, this Project is not likely to impact these or other aquatic species.

The Project is also within the range of the state-listed endangered American bittern, king rail, lark sparrow, and state-listed threatened least bittern. If any of these species nesting habitat (I.e., wetlands, marsh, and/or grassland) will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. No nesting habitat is within the Project area; therefore, the Project is not likely to impact this species.

The Project is also within the range of the state-listed endangered loggerhead shrike. If their nesting habitat (i.e., hedgerows, thickets, and fencerows) will be impacted, construction should be avoided in this habitat during the species' nesting period of April 1 through July 31. No nesting habitat is within the Project area; therefore, the Project is not likely to impact this species.

The Project is also within the range of the state-listed endangered northern harrier. If their nesting habitat (i.e., large marsh, or grasslands) will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. No nesting habitat is within the Project area; therefore, the Project is not likely to impact this species.

The ODNR response letter also included comments from the Natural Heritage Database with data of species located at or within a one-mile radius of the Project area. The Natural Heritage Database included 4 bird species; however, no preferred habitat is present within the Project area, and therefore these species are not likely to be impacted by the Project.

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A technical assistance request letter was also submitted to the USFWS on March 7, 2022. The USFWS response letter dated April 13, 2022, recommends that the proposed Project avoid and minimize impacts to all wetland habitats to the maximum extent possible and natural buffers around streams and wetlands should be preserved to enhance beneficial functions.

According to the USFWS response letter, the entire State of Ohio lies within the range of the federally threatened northern long-eared bat and federally endangered Indiana bat. The proposed Project is in the vicinity of one or more confirmed records of Indiana bat. Should the proposed Project site contain trees ≥3 inches dbh, USFWS recommends avoiding tree removal whenever possible. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, USFWS recommends removal only occur between October 1 and March 31. Please note that, because Indiana bat presence has already been confirmed in the Project vicinity, any additional summer surveys would not constitute presence/absence surveys for this species.

Seasonal clearing is recommended to avoid adverse effects to Indiana bat and northern longeared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule, incidental take of Indiana bats is still prohibited without a project-specific exemption.

The Project area does not contain suitable foraging and roosting habitat for the Indiana bat and northern long-eared bat. Therefore, impacts to these species are not likely.

The USFWS also stated that due to the Project type, size, and location, they do not anticipate adverse effects to any other federally endangered, threatened, proposed or candidate species due to the Project type, size, and location (Appendix E).

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Appendices
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Appendix A IMPACT TABLES

Table 1. Vegetation Communities and Land Cover Found within the Kileville 138 kV Line Extension Project, Union County, Ohio

Vegetation Communities and Land Cover Types within the Project Area	Degree of Human-Related Ecological Disturbance	Unique, Rare, or High Quality?	Approximate Acreage Within Project Area
Industrial Land	Extreme Disturbance/Ruderal Community (dominated by opportunistic invaders, planted non-native species, and/or native highly tolerant taxa).	No	4.69
	TOTAL		4.69

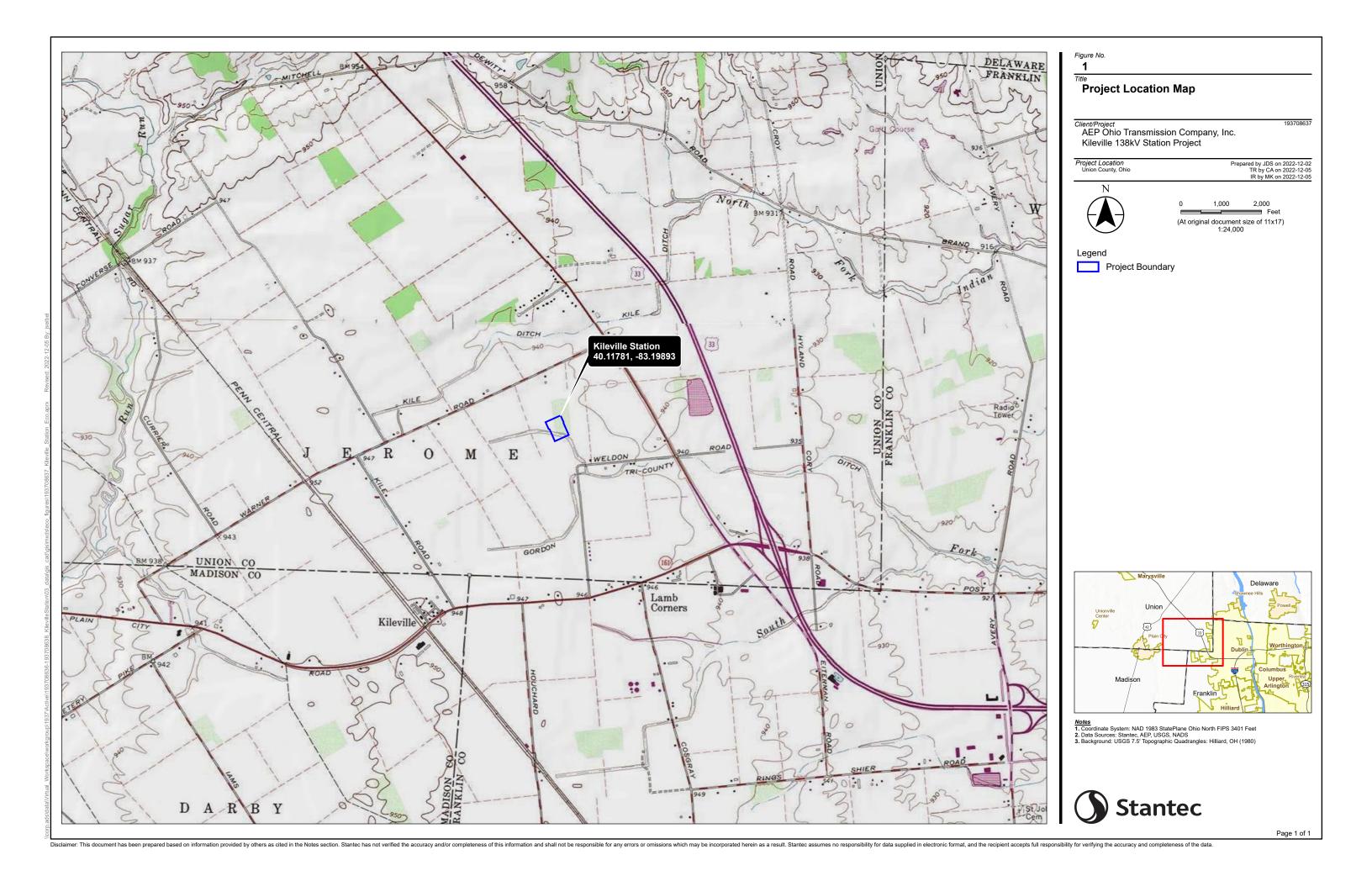
Table 2. Summary of NWI Disposition within the Kileville 138 kV Station Project Area, Union County, Ohio

NWI Code	NWI Description	Figure 2 Page Number	Related Field Inventoried Resource	Comments	
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	1	SP01	Area determined to not contain the three wetland indicators.	
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	1	SP02	Area determined to not contain the three wetland indicators.	
R4SBC	Riverine, Intermittent, Streambed, Seasonally Flooded	1	SP03	Determined to be upland drainage feature.	

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Appendix B FIGURES

B.1 PROJECT LOCATION MAP



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B.2 WETLAND AND WATERBODY DELINEATION MAP



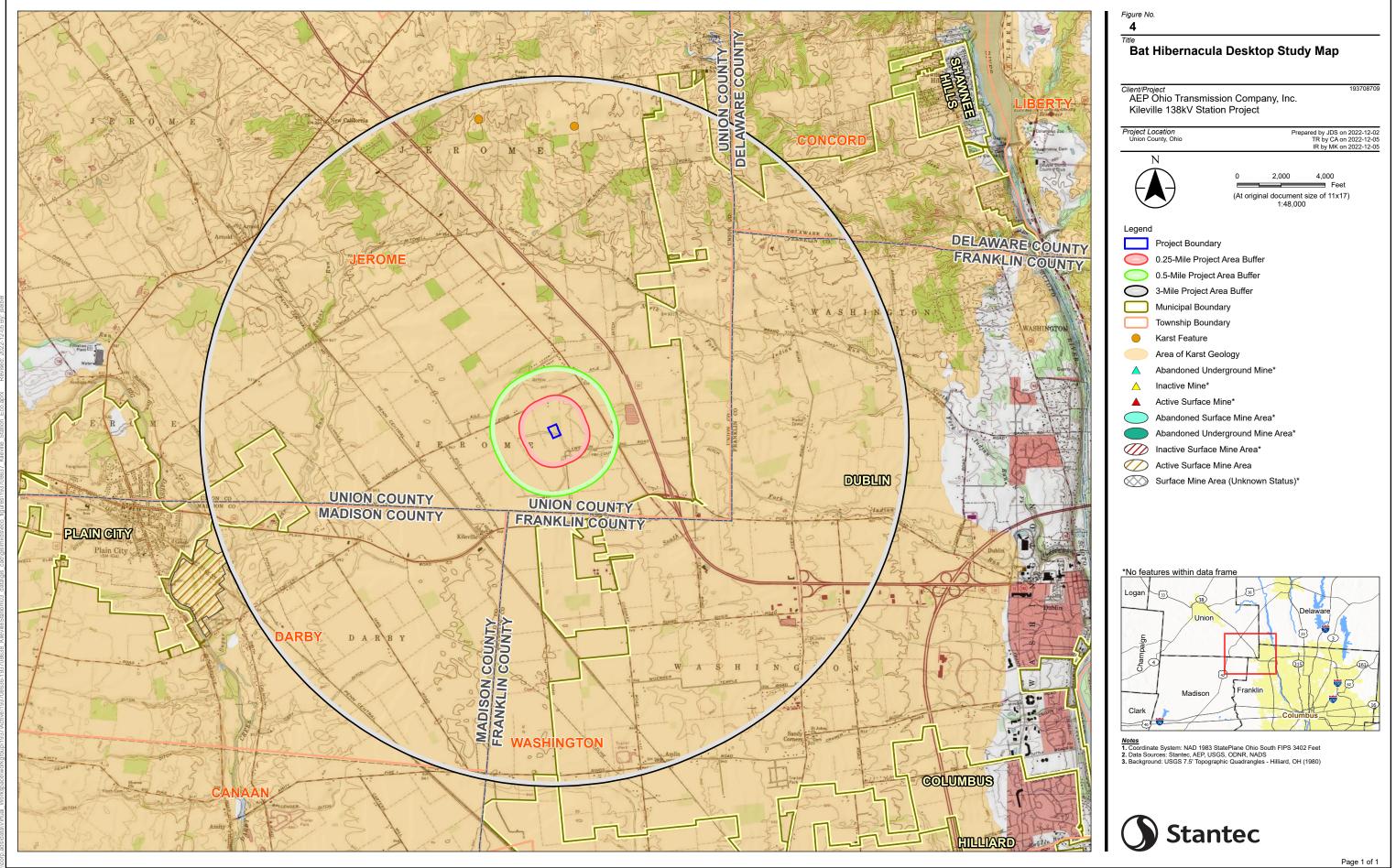
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B.3 HABITAT ASSESSMENT MAP



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B.4 BAT HIBERNACULA DESKTOP STUDY MAP



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Appendix C FIELD COLLECTED DATA FORMS

C.1 WETLAND DETERMINATION FORMS

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Kileville Station		City/County: L	Jnion	Samp	ling Date:	02/23	3/2022
Applicant/Owner: AEP Ohio Transmission Compar	ıy, Inc.		State:	Ohio Samp	ling Point:	SP01	
Investigator(s): MKTG		Section	n, Township, Range:				
Landform (hillside, terrace, etc.): Terrace	Local re	elief (concave, co	onvex, none): Co	nvex	Slo	pe %: _	2
Subregion (LRR or MLRA): La	t: 40.11841	L	.ong: <u>-83.198698</u>		Datum:	WGS	384
Soil Map Unit Name:			NWI classific	ation: PF0	O1A		
Are climatic / hydrologic conditions on the site typical for	or this time of year?	Yes	X No	(If no, explain	ı in Remarl	ks.)	
Are Vegetation N, Soil N, or Hydrology	N significantly distur	rbed? Are "I	Normal Circumstance	s" present?	Yes_X	No	
Are Vegetation N, Soil N, or Hydrology	N naturally problem	atic? (If nee	eded, explain any ans	wers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach site map s	howing sampling po	int locations, tra	ansects, important f	eatures, etc.			
Hydrophytic Vegetation Present? Yes	No X	I- 41 0	- d A				
		Is the Sampl within a Wet		s No	X		
	NoX	within a vict	iana: res				
Remarks: (Explain alternative procedures here or in a	separate report.)						
VEGETATION – Use scientific names of pl	onto						
VEGETATION – Ose scientific frames of pr	Absolute Domi	nant Indicato	ır İ				
Tree Stratum (Plot size: 30 ft)	% Cover Spec			st worksheet:	:		
Carya cordiformis	40 N	o FACU	Number of Dom	ninant Snecies			
2. Quercus alba	Ye	es FACU				0	(A)
3			 Total Number o	f Dominant			_
4			Species Across			1	(B)
5			Percent of Dom	inant Chasias			_
Sapling/Shrub Stratum (Plot size: 15 ft)	60 = Total	Cover	That Are OBL, I	•		0	(A/B)
1			Prevalence Inc	lex workshee	 t:		
2.			Total % C	over of:	Multi	iply by:	
3.			OBL species	0	x 1 =	0	
4.			FACW species	0	x 2 =	0	
5			FAC species				
5 ft >	= Total (Cover	FACU species	60	x 4 =	240	
Herb Stratum (Plot size: 5 ft)			UPL species	0	x 5 =	0	
1			Column Totals:	60	(A)	240	— (B)
2. 3.			— Prevalen	ce Index = B/A		4	` ′
			Hydrophytic V				
5				•		etation	
6.							
7.			3 - Prevale				
8.							
9			— 4 - Morpho (Provide suppo	rting data in Rema	rks or on a se	parate she	et)
10			Problemat	tic Hydrophytic	: Vegetatio	n¹ (Exp	lain)
	= Total (Cover	¹ Indicators of hydric s disturbed or problema		irology must b	e present,	, unless
Woody Vine Stratum (Plot size: 30 ft)			disturbed or problems	uc.			
1			Hydrophytic				
2	· <u> </u>		_ Vegetation Present?	Yes	No	Х	
	= Total (Cover	1.1000/11:				
Remarks: (Include photo numbers here or on a sep	arate sneet.)						

SOIL Sampling Point: SP01

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment th	e indicat	or or co	onfirm the absence of	indicators.)		
Depth	Matrix			x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	F	Remarks	
0-14	10YR 3/1	100		0			Clay Loam			
							_			
							-			
¹ Type: C=C	oncentration, D=De	epletion, RN	M=Reduced Matrix,	MS=Mas	sked San	d Grains	s. ² Location: PL=P	ore Lining, M=N	∕latrix.	
Hydric Soil I	ndicators:						Indicators fo	or Problematic	Hydric So	ils³:
Histosol (/	A1)		Sandy Gleyed M	atrix (S4)			Coast Pra	airie Redox (A16)		
Histic Epi	pedon (A2)		Sandy Redox (S	5)			Iron-Man	ganese Masses (F	12)	
Black Hist	tic (A3)		Stripped Matrix (S6)			Red Pare	nt Material (F21)		
Hydrogen	Sulfide (A4)		Dark Surface (S	7)			Very Shal	low Dark Surface	(F22)	
Stratified I	Layers (A5)		Loamy Mucky M	ineral (F1)		Other (Ex	plain in Remarks)		
2 cm Muc	k (A10)		Loamy Gleyed M	latrix (F2))					
Depleted	Below Dark Surface (A	A11)	Depleted Matrix	(F3)						
Thick Dar	k Surface (A12)		Redox Dark Surf	ace (F6)						
Sandy Mu	icky Mineral (S1)		Depleted Dark S	urface (F	7)					
	ky Peat or Peat (S3)		Redox Depression	ons (F8)						
	_ayer (if observed)):								
Type:	Clay loam									
Depth (ir	nches):14						Hydric Soil Preser	nt? Yes	N	lo <u>X</u>
Remarks:										
HYDROLO	GY									
	drology Indicators	:					Secondary India	cators (minimum c	of two require	·4)
			ired; check all that	apply)			·	oil Cracks (B6)	i two require	:u <u>)</u>
Surface W	ater (A1)		Water-Stained	Leaves (E	39)			Patterns (B10)		
High Wate	r Table (A2)		Aquatic Fauna		-,			n Water Table (C2)	1	
Saturation	(A3)		True Aquatic F		4)			urrows (C8)	'	
Water Mar	ks (B1)		Hydrogen Sulf	de Odor (C1)			Visible on Aerial In	nagery (C9)	
Sediment	Deposits (B2)		Oxidized Rhize	spheres o	on Living Ro	oots (C3)		Stressed Plants (D		
Drift Depos	sits (B3)		Presence of R	educed Iro	on (C4)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)		Recent Iron Re	eduction in	Tilled Soils	s (C6)	FAC-Neutr	al Test (D5)		
Iron Depos	sits (B5)		Thin Muck Sur	face (C7)						
Inundation	Visible on Aerial Image	ery (B7)	Gauge or Well	Data (D9))					
	egetated Concave Surf	ace (B8)	Other (Explain	in Remar	ks)		1			
Field Obser		· 00	No D-	nth /in-	hoo):					
Surface Wat	01 1 1000111	es		pth (inc						
Water Table		es		pth (inc	· —					
Saturation P (includes car		es	No De	pth (inc			Wetland Hydrology F	Present?	Yes	_No _X_
` '		m gauge, m	nonitoring well, aeria	l photos	, previous	s inspec	tions), if available:			
	. (50.					,	,,			
Remarks:										

WETLAND DETERMINATION DATA FORM - Midwest Region

3. Quercus palustris 10 No FACW 4. Prunus serotina 10 No FACU 5. 80 = Total Cover 1. Acer saccharum 40 Yes FACU 2. Lonicera maackii 30 Yes UPL 3. Lindera benzoin 20 Yes FACW 4. Celtis occidentalis 10 No FAC 5. FACW species 30 x 2 = 60 5. FAC species 10 x 3 = 30 4. Celtis occidentalis 10 No FAC FACW species 30 x 2 = 60 5. FAC species 10 x 3 = 30 30 FACU species 110 x 4 = 440 Herb Stratum (Plot size: 5 ft) 100 Total Cover FACU species 30 x 5 = 150	Project/Site: Kileville 138 kV Station Project		Cit	ty/County:	Union			Samplir	ng Date:	02/23	3/2022
Landform (hillside, terrace, etc.): Terrace	Applicant/Owner: AEP Ohio Transmission Compar	ıy, Inc.				State:	Ohio	Samplii	ng Point:	5	3P02
Submajon (LRR or MLRA):	Investigator(s): Michelle Kearns, Tyler Gillette			Secti	on, Towns	hip, Range:					
Soil Map Unit Name: Brookston silty clay loam, fine texture, D-2% slopes NWi classification: PFO1A	Landform (hillside, terrace, etc.): Terrace		Local relief	(concave,	convex, n	one): Co	nvex		Slo	pe %:	3
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation N , Soil N , or Hydrology N significantly disturbed? Are "hormal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Wetland Hydrology Present? Yes No X	Subregion (LRR or MLRA):	t: 40.117947			Long: -8	3.199101			Datum:	WGS	S84
Are Vegetation N Soil N Or Hydrology N Instituted? Are "Normal Circumstances" present? Yes X No No No No No No No	Soil Map Unit Name: Brookston silty clay loam, fine	e texture, 0-2°	% slopes			NWI classific	cation:	PFO	1A		
Are Vegetation N , Soil N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X Wetland Present Hydrology Present? Yes No X Wetland? Yes No X	Are climatic / hydrologic conditions on the site typical for	or this time of y	/ear?	Yes	s X	No	(If no, e	xplain i	n Remar	ks.)	
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.	Are Vegetation N, Soil N, or Hydrology	N significant	tly disturbed	d? Are	"Normal	Circumstance	es" prese	nt?	Yes_>	≺ No	
Hydrophytic Vegetation Present?	Are Vegetation N, Soil N, or Hydrology	N naturally ρ	oroblematic	? (If n	eeded, ex	plain any an	swers in I	Remark	(s.)		
Hydrophytic Vegetation Present?	SUMMARY OF FINDINGS – Attach site map s	howing samp	ling point	locations,	transects	s, important t	features,	etc.			
Hydric Soil Present? Yes											
Wetland Hydrology Present? Yes_No_X			- I	'	•		•	No	Y		
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) Absolute % Cover Species Dominant Species Indicator Status Dominant Species Manage of Dominant Species Man				willilli a vv	euanu :	1 6:	•—	NO _			
Tree Stratum (Plot size: 30 ft) Absolute % Cover Species Dominant Species Status 1. Carya ovata 40 Yes FACU 2. Acer saccharum 20 Yes FACU 3. Querus palustris 10 No FACU 4. Prunus serotina 10 No FACU 5. 80 = Total Cover Sapling/Shrub Stratum (Plot size: 15 ft) 1 1. Acer saccharum 40 Yes FACU 2. Lonicera maackii 30 Yes UPL 3. Lindera benzoin 20 Yes FACW 4. Celtis occidentalis 10 No FAC 5. 100 = Total Cover FACW species 30 x 2 = 60 FAC species 10 x 3 = 30 FAC species 10 x 3 = 30 FAC species 10 x 3 = 30 x 2 = 60 FAC species 10 x 3 = 30 FAC species 110 x 4 = 440 UPL species 30 x 5 = 150 Column Totals: 180 (A)	Remarks: (Explain alternative procedures here or in a	separate repo	ort.)								
Tree Stratum (Plot size: 30 ft) Absolute % Cover Species Dominant Species Status 1. Carya ovata 40 Yes FACU 2. Acer saccharum 20 Yes FACU 3. Querus palustris 10 No FACU 4. Prunus serotina 10 No FACU 5. 80 = Total Cover Sapling/Shrub Stratum (Plot size: 15 ft) 1 1. Acer saccharum 40 Yes FACU 2. Lonicera maackii 30 Yes UPL 3. Lindera benzoin 20 Yes FACW 4. Celtis occidentalis 10 No FAC 5. 100 = Total Cover FACW species 30 x 2 = 60 FAC species 10 x 3 = 30 FAC species 10 x 3 = 30 FAC species 10 x 3 = 30 x 2 = 60 FAC species 10 x 3 = 30 FAC species 110 x 4 = 440 UPL species 30 x 5 = 150 Column Totals: 180 (A)											
Tree Stratum (Plot size: 30 ft) Absolute % Cover Species Dominant Species Status 1. Carya ovata 40 Yes FACU 2. Acer saccharum 20 Yes FACU 3. Quercus palustris 10 No FACU 4. Prunus serotina 10 No FACU 5	VECETATION Line opiontific normal of all										
Tree Stratum (Plot size: 30 ft)	VEGETATION – Use scientific names of pi		Dominor	at Indiaa	tor						
2. Acer saccharum 20 Yes FACU Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) 3. Quercus palustris 10 No FACW Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) 5. 80 = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A) 2. Lonicera maackii 30 Yes FACU Prevalence Index worksheet: Total % Cover of: Multiply by: 3. Lindera benzoin 20 Yes FACW OBL species 0 x1 = 0 4. Celtis occidentalis 10 No FAC FACW species 30 x2 = 60 5. 100 = Total Cover FACU species 10 x3 = 30 Yes 4. Celtis occidentalis 100 = Total Cover FACW species 30 x5 = 150 5. 100 = Total Cover FACU species 10 x3 = 30 4. Erb Stratum (Plot size: 5ft) 5ft) Column Totals: 180 (A) 680 7. 4. Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 8. 2 - Dominance Test is >50%	Tree Stratum (Plot size: 30 ft)				I .	ominance Te	st works	sheet:			
2. Acer saccharum 20 Yes FACU 3. Quercus pallustris 10 No FACW 4. Prunus serotina 10 No FACU 5. Sapling/Shrub Stratum (Plot size: 15 ft) 80 = Total Cover 1. Acer saccharum 40 Yes FACU 2. Lonicera maackii 30 Yes UPL 3. Lindera benzoin 20 Yes FACW 4. Celtis occidentalis 10 No FAC 5.	1. Carya ovata	40	Yes	FAC	<u>u</u> N.	ımbar of Dan	ninant Cr	ooioo			
4. Prunus serotina 5.	2. Acer saccharum	20	Yes	FAC						1	(A)
4. Prunus serotina 10 No FACU Species Across All Strata: 5 (B) 5. 80 = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A) 1. Acer saccharum 40 Yes FACU Prevalence Index worksheet: Total % Cover of: Multiply by: 3. Lindera benzoin 20 Yes FACW OBL species 0 x 1 = 0 0 4. Celtis occidentalis 10 No FAC FACW species 30 x 2 = 60 5 5. 100 = Total Cover FAC species 10 x 3 = 30 FACU species 110 x 4 = 440 UPL species 30 x 5 = 150 Column Totals: 180 (A) 680	3. Quercus palustris	10	No	FAC\		stal Number o	of Domina	ant			_
Sapling/Shrub Stratum (Plot size:15 ft) B0 _ = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC:20(A) 1. Acer saccharum 40	4. Prunus serotina	10	No	FAC						5	(B)
Sapling/Shrub Stratum (Plot size:15 ft) 1. Acer saccharum 40 Yes FACU 2. Lonicera maackii 30 Yes UPL 3. Lindera benzoin 20 Yes FACW 4. Celtis occidentalis 10 No FAC 5	5				— _D	reent of Dom	sinant Cn	aalaa			_
1. Acer saccharum 40 Yes FACU Prevalence Index worksheet:	Sanling/Shruh Stratum (Plot size: 15 ft)	80	= Total Co	over						20	(A/B)
2. Lonicera maackii 30 Yes UPL Total % Cover of: Multiply by:		40	Yes	FACI	<u> </u>						
3. Lindera benzoin 20 Yes FACW OBL species 0 x 1 = 0 4. Celtis occidentalis 10 No FAC FACW species 30 x 2 = 60 5. 100 = Total Cover FAC species 10 x 3 = 30 FACU species 110 x 4 = 440 UPL species 30 x 5 = 150 Column Totals: 180 (A) 680 680 Prevalence Index = B/A = 3.78 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	" -			_		Total % C	Cover of:		Mult	iply by:	
4. Celtis occidentalis 10 No FAC FACW species 30 x 2 = 60 5. 100 = Total Cover FAC species 10 x 3 = 30 FACU species 110 x 4 = 440 UPL species 30 x 5 = 150 Column Totals: 180 (A) 680 Prevalence Index = B/A = 3.78 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 6. 2 - Dominance Test is >50% 7. 3 - Prevalence Index is ≤3.0¹ 8. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	3. Lindera benzoin	20	-	FACV	v OE	BL species	0		x 1 =	0	
Herb Stratum (Plot size:5 ft) 100 = Total Cover FACU species	4. Celtis occidentalis	10	No	FAC	FA	ACW species	30		x 2 =	60	
Herb Stratum (Plot size:5 ft) 100	5				FA	AC species	10		x 3 =	30	
1	5 ft)	100 =	= Total Cov	er			110)	x 4 =	440	
2. Column Totals: 180 (A) 680 3. Prevalence Index = B/A = 3.78 4. Hydrophytic Vegetation Indicators: 5. 1 - Rapid Test for Hydrophytic Vegetation 6. 2 - Dominance Test is >50% 7. 3 - Prevalence Index is ≤3.0¹ 8. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)					UI	PL species	30		x 5 =	150	
Prevalence Index = B/A = 3.78				_	— _C	olumn Totals:	180)	(A)	680	(B)
4. Hydrophytic Vegetation Indicators: 5. 1 - Rapid Test for Hydrophytic Vegetation 6. 2 - Dominance Test is >50% 7. 3 - Prevalence Index is ≤3.0¹ 8. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				_	_	Prevaler	nce Index	c = B/A	= _	3.78	
5					H ₃	drophytic V	egetatio	n Indic	ators:		
6	_					1 - Rapid	Test for	Hydropl	hytic Veg	getation	
84 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						2 - Domin	ance Tes	st is >5(0%		
9. (Provide supporting data in Remarks or on a separate sheet)	7				_	— — 3 - Preval	ence Ind	ex is ≤3	3.0 ¹		
9. (Provide supporting data in Remarks or on a separate sheet)	8				_	4 - Morph	ological /	Adaptat	ions ¹		
10 Problematic Hydrophytic Vegetation¹ (Explain)	9				_					parate she	et)
1	10				-		•		J	` .	,
Woody Vine Stratum (Plot size: 30 ft) ——— = Total Cover Indicators of hydric soil and wetland hydrology must be present, unle disturbed or problematic.	Woody Vine Stratum (Plot size: 30 ft)	=	= Total Cov	er er				land hydro	ology must b	e present	, unless
					-						
1. Hydrophytic 2. Vegetation				_							
= Total Cover			= Total Cov	er		•	Yes		No	X	
Remarks: (Include photo numbers here or on a separate sheet.)	Remarks: (Include photo numbers here or on a son										

SOIL Sampling Point: SP02

Profile Description: (Describe to the	depth needed to docu	ment th	e indicat	or or co	onfirm the absence of	indicators.)		
Depth Matrix		x Featur						
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	R	Remarks	
0-7 10YR 3/2 10	0	0			Clay Loam			
7-21 10YR 4/1 10	0	0			Clay Loam			
	_							
	<u> </u>							
<u> </u>	_							
¹ Type: C=Concentration, D=Depletion	n, RM=Reduced Matrix,	MS=Mas	sked San	d Grains				3.
Hydric Soil Indicators:						r Problematic	Hyaric Soils	1
Histosol (A1)	Sandy Gleyed M					irie Redox (A16)		
Histic Epipedon (A2)	Sandy Redox (S	•				anese Masses (F	12)	
Black Histic (A3)	Stripped Matrix (•				nt Material (F21)	(E22)	
Hydrogen Sulfide (A4) Stratified Layers (A5)	Dark Surface (Since Loamy Mucky M	•	\		·	low Dark Surface (plain in Remarks)	(FZZ)	
2 cm Muck (A10)	Loamy Gleyed M	•	•		Other (Ex	piain in Remarks)		
Depleted Below Dark Surface (A11)	Depleted Matrix		,					
Thick Dark Surface (A12)	Redox Dark Surf							
Sandy Mucky Mineral (S1)	Depleted Dark S	urface (F	7)					
5 cm Mucky Peat or Peat (S3)	Redox Depression	ons (F8)						
Restrictive Layer (if observed):								
Type: NA								
Depth (inches): 21					Hydric Soil Presen	t? Yes	No	<u> </u>
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:					Secondary Indic	ators (minimum of	f two required)	
Primary Indicators (minimum of one is	required; check all that	apply)			Surface Sc	il Cracks (B6)		
Surface Water (A1)	Water-Stained	Leaves (E	39)		Drainage F	atterns (B10)		
High Water Table (A2)	Aquatic Fauna				Dry-Seaso	n Water Table (C2)		
Saturation (A3)	True Aquatic F	-				urrows (C8)		
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulf		-	note (C3)		Visible on Aerial Im		
Drift Deposits (B3)	Presence of R	•	•	3013 (03)		Stressed Plants (D' c Position (D2)	1)	
Algal Mat or Crust (B4)	Recent Iron Re		. ,	s (C6)		al Test (D5)		
Iron Deposits (B5)	Thin Muck Sur			, ,		()		
Inundation Visible on Aerial Imagery (B7)	Gauge or Well	Data (D9))					
Sparsely Vegetated Concave Surface (B8	Other (Explain	in Remarl	ks)		_			
Field Observations:	NI- V 5	ntle /! '						
Surface Water Present Yes		pth (incl	· -					
Water Table Present Yes Saturation Present Yes	_ 	pth (incl pth (incl						
Saturation Present Yes (includes capillary fringe)		ישהי (וווטו			Wetland Hydrology F	Present?	Yes	No X
Describe Recorded Data (stream gaug	je, monitoring well, aeria	I photos	, previou	s inspec	tions), if available:			
Remarks:								

WETLAND DETERMINATION DATA FORM - Midwest Region

Applicant/Owner: AEP Ohio Transmission Company, Inc. Investigator(s): Samantha Heitzenrater / Zoe True	State: Ohio Sampling Point: SP03
Investigator(s): Samantha Heitzenrater / Zoe True	
	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace Local relief	oncave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): Lat: 40.117371	Long: -83.198714 Datum: WGS84
Soil Map Unit Name: Brookston silty clay loam, fine texture 0-2% slopes	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation $\underline{\hspace{0.1cm} Y}\hspace{0.1cm}$, Soil $\underline{\hspace{0.1cm} Y}\hspace{0.1cm}$, or Hydrology $\underline{\hspace{0.1cm} Y}\hspace{0.1cm}$ significantly disturbed	Are "Normal Circumstances" present? Yes X No
Are Vegetation Y, Soil Y, or Hydrology Y naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point le	eations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	he Sampled Area
Libertain Cail Danasart	he Sampled Area hin a Wetland? Yes No X
Wetland Hydrology Present? Yes No _X	— · · · —
Remarks: (Explain alternative procedures here or in a separate report.) Sample point was taking in an existing gravel industrial site	
Sample point was taking in an existing graver industrial site	
VEGETATION – Use scientific names of plants.	
Absolute Dominan	Indicator
Sapling/Shrub Stratum (Plot size: 30 ft)	Status Dominance Test worksheet:
1	Number of Dominant Species
3	That Are OBL, FACW, or FAC: (A)
4	Total Number of Dominant
5 = Total Co	Species Across All Strata: (B)
Tree Stratum (Plot size: 15 ft_)	Percent of Dominant Species
1	That Are OBL, FACW, or FAC: (A/B)
2	Prevalence Index worksheet: Total % Cover of: Multiply by:
3	
4	OBL species x 1 =
5	FACW species x 2 =
= Total C	
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)	FACU species x 4 =
1	UPL species x 5 =(D)
2	Column Totals: (A) (B)
3	
4	Hydrophytic Vegetation Indicators:
5	
6	
7	
9	4 - Worphological Adaptations
10	Problematic Hydrophytic Vegetation¹ (Explain)
= Total Cove	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30 ft)	·
1	
2 = Total Cove	Dresent2 Ves No Y
= Total Cove	

SOIL Sampling Point: SP03

Profile Desc	ription: (Descr	ibe to the dep				or or co	nfirm the absence of in	dicators.)	
Depth	Mat		Redo	ox Featu					
(inches)	Color (mois	st) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	S
									_
				· ——					
¹Type: C=C	Concentration, D	=Depletion, RN	1=Reduced Matrix,	MS=Ma	sked San	d Grains.	² Location: PL=Por	e Lining, M=Matrix.	
Hydric Soil								Problematic Hydric	Soils ³ :
Histosol (Δ1)		Sandy Gleyed N	Aatrix (S4)	1		Coast Prairie	e Redox (A16)	
 -	pedon (A2)		Sandy Redox ('			nese Masses (F12)	
Black His			Stripped Matrix	•				Material (F21)	
	Sulfide (A4)		Dark Surface (S	` '				w Dark Surface (F22)	
	Layers (A5)		Loamy Mucky N	,)			ain in Remarks)	
2 cm Muc	- , ,		Loamy Gleyed	•	•			,	
	Below Dark Surfac	ce (A11)	Depleted Matrix		,				
	k Surface (A12)	,	Redox Dark Su						
	ucky Mineral (S1)		Depleted Dark		7)				
5 cm Mud	ky Peat or Peat (S	S3)	Redox Depress						
	Layer (if observ								
Type:	Gravel / compa	actions							
Depth (ii	nches): 0+						Hydric Soil Present?	Yes	No X
Remarks:									
LIVEROLO	201/								
HYDROLO									
	drology Indicat		irad: abaak all that	annly)			Secondary Indicat	ors (minimum of two red	<u>quired)</u>
		TOT OHE IS TEQU	ired; check all that				Surface Soil (Cracks (B6)	
Surface W	` '		Water-Staine		39)		Drainage Pat	terns (B10)	
	er Table (A2)		Aquatic Faun				Dry-Season V	Vater Table (C2)	
Saturation			True Aquatic	•	•		Crayfish Burn		
Water Ma	,		Hydrogen Sul			(00)	' <u></u>	sible on Aerial Imagery (C	9)
Drift Depo	Deposits (B2)		Oxidized Rhiz	•	•	oots (C3)	' <u></u>	ressed Plants (D1)	
	or Crust (B4)		Presence of F		, ,	(C6)	Geomorphic I		
Iron Depo			Recent Iron F		i ililea Soli:	s (C0)	FAC-Neutral	Test (D5)	
	า Visible on Aerial In	nagery (B7)	Thin Muck Su	` '	`				
	/egetated Concave		Gauge or We						
Field Obser		Curiaco (Bo)	Other (Explain	i ili Kelliai	KS)				
Surface Wat		Yes	No X D	epth (inc	hes):				
Water Table		Yes	No X D	epth (inc	hes):				
Saturation P		Yes		epth (inc			Wetlend Usdralens Dr	Noomt? Voo	No. V
	pillary fringe)						Wetland Hydrology Pre	esent? Yes _	No _X_
Describe Re	corded Data (st	ream gauge, m	onitoring well, aeri	al photos	, previous	sinspect	ions), if available:		
Remarks:									

Appendices
December 5, 2022

Appendix D REPRESENTATIVE PHOTOGRAPHS

D.1 WETLAND AND WATERBODY PHOTOGRAPHS





Photo Location 1. View of wetland determination sample point SP01, upland, collected on 2/23/2022. Photograph taken facing south.



Photo Location 1. View of wetland determination sample point SP01, soil profile. Collected on 2/23/2022.





Photo Location 2. View of existing conditions of NWI feature (SP01; PFO1A) within Project area.. Photograph taken facing northeast.



Photo Location 3. View of wetland determination sample point SP02, upland, collected on 2/23/2022. Photograph taken facing northeast.





Photo Location 3. View of wetland determination sample point SP02 soil profile. Collected on 2/23/2022.



Photo Location 4. View of existing conditions of NWI feature (SP02; PFO1A) within Project area. Photograph taken facing northwest.





Photo Location 5. View of wetland determination sample point, SP03, industrial/gravel. Photograph taken facing east.

Appendices
December 5, 2022

D.2 HABITAT PHOTOGRAPHS





Photo Location 1. View of industrial land. Photograph taken facing north.



Photo Location 1. View of industrial land. Photograph taken facing south.





Photo Location 2. View of industrial land. Photograph taken facing north.



Photo Location 2. View of industrial land. Photograph taken facing south.





Photo Location 3. View of industrial land. Photograph taken facing north.



Photo Location 3. View of industrial land. Photograph taken facing south.





Photo Location 4. View of industrial land. Photograph taken facing north.



Photo Location 4. View of industrial land. Photograph taken facing south.

KILEVILLE 138 KV STATION PROJECT ECOLOGICAL RESOURCES INVENTORY REPORT

Appendices
December 5, 2022

Appendix E AGENCY CORRESPONDENCE



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

April 1, 2022

Matthew Teitt Stantec Consulting Services, Inc. 1500 Lake Shore Drive Suite 100 Columbus OH 43204

Re: 22-0245; AEP Kileville Station Project

Project: The proposed project includes the construction of a new 138 kV substation.

Location: The proposed project is located in Jerome Township, Union County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

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

Least Bittern (*Ixobrychus exilis*), T Sora Rail (*Porzana carolina*), SC King Rail (*Rallus elegans*), E Virginia Rail (*Rallus limicola*), SC

The review was performed on the project area specified in the request as well as an additional one-mile radius. Records searched date from 1980. Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; P = state species of concern; P = state special interest; P = state status under review; P = state presumed extirpated in Ohio; P = state presumed extirpated in Ohio; P = state reduced and P = state reduced in Ohio; P

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

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

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

The project is within the vicinity of records for the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Erin Hazelton at Erin.hazelton@dnr.ohio.gov).

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally threatened species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible.

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "Rangewide Indiana Bat Survey Guidelines." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Erin Hazelton for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the following listed mussel species.

Federally Endangered

nuffbox (*Epioblasma triquetra*) clubshell (*Pleurobema clava*) Northern riffleshell (*Epioblasma torulosa rangiana*) rayed bean (*Villosa fabalis*)

<u>Federally Threatened</u>

rabbitsfoot (Quadrula cylindrica cylindrica)

State Endangered

elephant-ear (Elliptio crassidens crassidens)

State Threatened

pondhorn (*Uniomerus tetralasmus*)

Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this project is not likely to impact these species.

The project is within the range of the following listed fish species.

State Threatened

the Tippecanoe darter (Etheostoma Tippecanoe)

The DOW recommends no in-water work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the American bittern (*Botaurus lentiginosus*), a state endangered bird. Nesting bitterns prefer large undisturbed wetlands that have scattered small pools amongst dense vegetation. They occasionally occupy bogs, large wet meadows, and dense shrubby swamps. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, the project is not likely to impact this species.

The project is within the range of the king rail (*Rallus elegans*), a state endangered bird. Nests for this species are deep bowls constructed out of grass and usually hidden very well in marsh vegetation. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If no wetland habitat will be impacted, the project is not likely to impact this species.

The project is within the range of the lark sparrow (*Chondestes grammacus*), a state endangered bird. This sparrow nests in grassland habitats with scattered shrub layers, disturbed open areas, as well as patches of bare soil. In the Oak Openings area west of Toledo, lark sparrows occupy open grass and shrubby fields along sandy beach ridges. These summer residents normally migrate out of Ohio shortly after their young fledge or leave the nest. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

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

The project is within the range of the loggerhead shrike (*Lanius ludovicianus*), a state endangered bird. The loggerhead shrike nests in hedgerows, thickets and fencerows. They hunt over hayfields, pastures, and other grasslands. If thickets or other types of dense shrubbery habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 1 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus hudsonis*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species'

nesting period of April 15 through July 31. If this habitat will not be impacted, the project is not likely to impact this species.

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

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

The 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 Mike Pettegrew at mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator From: Ohio, FW3
To: Gillette, Tyler

Cc: nathan.reardon@dnr.state.oh.us; Parsons, Kate; Teitt, Matthew; Grant S Stuller

Subject: Proposed 138 kV Kileville Station Project, Union County, Ohio

Date: Wednesday, April 13, 2022 2:44:19 PM

Attachments: image.png image.png



UNITED STATES DEPARTMENT OF THE INTERIOR

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



Project Code: 2022-0012784

Dear Mr. Gillette,

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: The proposed project is in the vicinity of one or more confirmed records of Indiana bats. Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. 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 known or assumed present. Please note that, because Indiana bat presence has already been confirmed in the project vicinity, any additional summer surveys would not constitute presence/absence surveys for this species.

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

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

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

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, 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

KILEVILLE 138 KV STATION PROJECT ECOLOGICAL RESOURCES INVENTORY REPORT

Appendices
December 5, 2022

Appendix F APPROVED JURISDICTINAL DETERMINATION & OEPA ISOLATED PERMIT APPLICATION



DEPARTMENT OF THE ARMY

CORPS OF ENGINEERS, HUNTINGTON DISTRICT 502 8^{TH} STREET HUNTINGTON, WV 25701

February 1, 2021

Regulatory Division North Branch LRH-2021-72-SCR

APPROVED JURISDICTIONAL DETERMINATION AND NO PERMIT REQUIRED

Mr. Andrew Cangey Amazon Data Services 2570 Beech Road Johnstown, Ohio 43054

Dear Ms. Cangey:

I refer to jurisdictional determination (JD) report entitled *Jurisdictional Waters Delineation Report – CMH-086* completed by Ramboll and received in this office on January 19, 2021. You have requested an approved JD for the aquatic resources located on the approximate 100-acre site. The property is located at 8567 Warner Road in Plain City, Union County, Ohio at approximately 40.1196 latitude, -83.1983 longitude. Your JD request has been assigned the following file number: LRH-2021-72-SCR. Please reference this number on all future correspondence related to this JD request.

The United States Army Corps of Engineers' (Corps) authority to regulate waters of the United States is based on the definitions and limits of jurisdiction contained in 33 CFR 328, including the amendment to 33 CFR 328.3 (85 Federal Register 22250), and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to the discharge of dredged or fill material into waters of the United States, including wetlands. Section 10 of the Rivers and Harbors Act of 1899 requires a DA permit be obtained for any work in, on, over or under navigable water.

Approved Jurisdictional Determination

The Navigable Waters Protection Rule, which became effective on June 22, 2020, was followed in this verification of Section 404 jurisdiction for the proposed 100-acre review area, and the AJD boundary. Based upon a review of the submitted report and additional information available to us, this office has determined approximately 2,240 linear feet of one (1) ditch (Ditch 1), and 0.22 acre of three (3) wetlands (Wetland A - 0.03 acre, Wetland B - 0.03 acre, and Wetland C - 0.16 acre) were delineated within the AJD boundary.

Ditch 1 is a ditch with ephemeral flow that was constructed in uplands, is not a water of the United States per 33 CFR 328.3(a)(1) or (2), and was not constructed in an adjacent wetland per 33 CFR 328.2 (a)(4). Therefore, Ditch 1 is not a jurisdictional water of the United States per 33 CFR 328.3(b)(5) and is not subject to regulation under Section 404.. Wetlands A, B, and C do

not abut a water identified in 33 CFR 328.3(a)(1), (2), or (3), are not inundated by flooding from a water identified in 33 CFR 328.3(a)(1), (2), or (3) in a typical year, are not physically separated from a water identified in 33 CFR 328.3(a)(1), (2), or (3) only by a natural berm, bank, dune, or similar natural feature, and are not physically separated from a water identified in 33 CFR 328.3(a)(1), (2), or (3) only by an artificial dike, barrier, or similar artificial structure. Therefore, Wetlands A, B, and C are not considered a jurisdictional waters of the United States per 33 CFR 328.3(b)(1) and are not subject to regulation under Section 404. However, you should contact the Ohio Environmental Protection Agency, Division of Surface Water, at (614) 664-2001 to determine state permit requirements.

This jurisdictional verification is valid for a period of five (5) years from the date of this letter unless new information warrants revision of the delineation prior to the expiration date. This letter contains an approved JD for the subject site within the approved JD boundary. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the Great Lakes and Ohio River Division Office at the following address:

Appeal Review Officer
United States Army Corps of Engineers
Great Lakes and Ohio River Division
550 Main Street, Room 10-714
Cincinnati, Ohio 45202-3222
Phone: (513) 684-2699

Fax: (513) 684-2460

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by March **, 2021. It is not necessary to submit an RFA form to the Division office if you do not object to the determination in this letter.

This determination has been conducted to identify the limits of the Corps' Section 404 jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are United States Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

No Permit Required

Based on a review of the information provided, we have determined your proposal will neither result in a discharge of dredged and/or fill material into waters of the United States nor involve work in, on, over or under a navigable water of the United States. Therefore, no DA permit is required from this office for the proposed activity.

This letter does not excuse you from the obligation to obtain any other Federal, state and/or local authorization, if required. You should not commence work until you receive the required authorizations. In addition, this letter does not grant any property rights or exclusive privileges, or authorize any injury to the property or rights of others. If you contemplate any changes or additional activities from those described in your request dated November 5, 2020, please submit them to this office for authorization review prior to any construction.

A copy of this letter will be provided to the Ohio Environmental Protection Agency at Lazarus Government Building, Post Office Box 1049 Columbus, Ohio 43216-3669. If you have any questions concerning the above, please contact Andrew Wendt at (513) 825-4518, by mail at the above address, or by email at andrew.j.wendt@usace.army.mil.

Sincerely,

Laurie A. Moore Regulatory Project Manager North Branch

Enclosures

Table 1. Non-jurisdictional features associated with the CMH-086 Approved JD, LRH-2021-72-SCR						
Aquatic Resources	Latitude & Longitude (°N) (°W)		Cowardin Class	Linear feet and/or Acres in review area	Regulatory Authority	
Ditch 1	40.1176	-83.2013	Ephemeral	2,240 linear feet	None; Excluded under (b)(5)	
Wetland A	40.1196	-83.1983	PEM	0.03 acre	None; Excluded under (b)(1)	
Wetland B	40.1185	-83.1985	PEM	0.03 acre	None; Excluded under (b)(1)	
Wetland C	40.1178	-83.1977	PEM	0.16 acre	None; Excluded under (b)(1)	



Site Boundary — Design Component Limits of Disturbance Culvert Non-Jurisdictional Ditch PEM Wetland PFO Wetland

Source:

Background: Aerial Photo: 8/4/2019

1 inch = 300 feet

PROPOSED SITE PLAN AND

CMH 086

8567 Warner Road Plain City, Ohio

IMPACTS MAP

ITEM 4B-1

RAMBOLL US CORPORATION A RAMBOLL COMPANY





Re: CMH-086 Warner Road
Permit - Intermediate
Approval
401 Wetlands
Union
DSW401217251W

April 20, 2021

Garrett Jansma
Amazon Data Services, Inc.
410 Terry Ave
North Seattle, WA 98109
Jansma@amazon.com

Subject: Grant Authorization under Isolated Wetland and Ephemeral Stream

General Permit (Level One) CMH-086 Warner Road Ohio EPA ID No. 217251W

Dear Mr. Jansma:

On March 8, 2021, the Ohio Environmental Protection Agency (Ohio EPA) received a preactivity notice (PAN) for coverage under the OHIO GENERAL PERMIT FOR FILLING CATEGORY 1 AND CATEGORY 2 ISOLATED WETLANDS AND EPHEMERAL STREAMS (general permit). In the PAN, you requested to impact 0.22 acre of forested Category 2 wetlands for the purpose of constructing a commercial development located in Plain City, Union County (40.118817, -83.199834). After an administrative review of the PAN, it was determined to be complete on March 29, 2021. As compensatory mitigation for the aforementioned impacts you shall purchase 0.6 acre of forested wetland mitigation from The Nature Conservancy's In-Lieu Fee Program located in the Upper Scioto Watershed (05060001).

Ohio EPA has reviewed your request and has determined that it meets the PAN requirements for coverage under the general permit.

Please familiarize yourself with the general permit (see link below). It contains requirements and prohibitions with which you must comply. In particular, please be aware of permit condition Part VI.F requiring mitigation credit proof of purchase within 30 days of receipt of this authorization.

OHIO GENERAL PERMIT FOR FILLING CATEGORY 1 AND 2 ISOLATED WETLANDS AND EPHEMERAL STREAMS

Additionally, please be aware that as per ORC §6111.022(E) and Part VII of the general permit, the proposed filling of the isolated wetland(s) and/or ephemeral stream(s) must be completed by April 20, 2023. If you do not complete the filling within this time, you must submit a new pre-activity notice to Ohio EPA.

You may find a copy of Ohio EPA's rules and laws online at http://www.epa.ohio.gov/dsw/dswrules.aspx. Information regarding Ohio's Section 401 and Isolated Wetlands Permitting programs is also available online at http://www.epa.ohio.gov/dsw/401/permitting.aspx.

If you have any questions, please contact me via email at Matthew.Lamoreaux@epa.ohio.gov.

Sincerely,

Matt Lamoreaux

matt Samorany

Application Coordinator

401/Wetlands/Mitigation Section

ec: Andrea Kilbourne, <u>Andrea.Kilbourne@epa.ohio.gov</u>, Ohio EPA, DSW, Mitigation Coordinator

Jeff Boyles, <u>Jeffrey.Boyles@epa.ohio.gov</u>, 401/Wetlands/Mitigation Section Supervisor, Ohio EPA

Wes Barnett, <u>wes.barnett@usace.army.mil</u>, Department of the Army, Huntington District, Corps of Engineers

Devin Schenk, dschenk@TNC.org, The Nature Conservancy

Andrew Cangey, cangeyac@amazon.com, Amazon Data Services, Inc.

Jamie VanDusen, <u>Jamie.VanDusen@ramboll.com</u>, Ramboll Americas Engineering Solutions, Inc.

DSW File



General Isolated Wetland Permit Application (Level One)

Division of Surface Water/Stormwater Section

(For impacts of ½ acre or less to Category 1 and 2 isolated wetlands)

Section 1: Applicant and Consultant/Agent Information						
	Арр	licant		Consultant/Agent		
Company/Agency Name:	Amazon Data Services, Inc.		Ramboll Ame	ericas Engineering Solutions, Inc.		
Address:	410 Terry Avenue, North Se	eattle, WA 98109	8805 Governo 45249	ors Hill Drive, Suite 164, Cincinnati, OH		
Contact Name/Title:	Garrett Jansma/DRO		Jamie VanDu	usen/Project Ecologist		
Contact Phone:	(949) 410-5315		(517) 282-857	75		
Alternate Phone:						
Contact FAX:						
Contact Email:	Jansma@amazon.com		jamie.vandus	en@ramboll.com		
Technical Contact:	Andrew Cangey					
Technical Phone:	(724) 674-4033					
Technical Email:	cangeyac@amazon.com					
Section 2: Project Infor	mation					
A. Project Name: CMH-086	6 Warner Road					
B. Has Pre-Application Co	ordination occurred?	Yes	× No			
401 Pre-application Review	wer: Date of 401 Pre-a	pplication Meeting:				
acres of three isolated wetlands as part of a proposed Amazon web service data center facility. The data center will consist of four data center halls, one "special projects" area with two small research buildings, an electrical substation with an adjoining switchyard and associated "mega charge" station, a water storage facility, and other associated infrastructure (security guardhouse and entrance truck turnaround area, access roads, parking areas, utilities, and stormwater management system). The purpose of the proposed data center is to provide data/information management services.						
D. Construction Start Date	e: 05/01/2021 End Date: 0	04/01/2023				
E. Is any portion of the activity complete now?						
Is this an "After-The-Fact"	Yes	X No				
Description of completed activities and its impact on the waters of the state.:						
F. Coordinates LATITUDE	: 40.118817 LONGITUDE	:: -83.199834				
	Warner Road, Plain City, OH					
_			n Citv. Ohio			
Location Description: The 100-acre site is located at 8567 Warner Road in Plain City, Ohio ZIP Code(s): 43064						
County(ies):		Township(s):				
Union		12(2)				
Union		Jerome				
H. 12 Digit HUC Number:		I. Watershed Name:				
050600011203		Indian Run				
J. U.S. Army Corps of Engineers District: Huntington						
K. Proposed Impacts to Isolated Wetlands:						
Beach Nourishment						
Deach Nourioninient	Blasting	B	reakwater	Bulkhead		
Bridge/Culvert	☐ Blasting ☐ Dam	=	reakwater	☐ Bulkhead ※ Fill		

	Bank Stabilization Weirs		Stream Channelization Other		Stream Relocation		Water Body Crossing
L. Othe	L. Other water related permits issued or required include:						
	Individual 404 Permit		1				
	Individual 401 WQC						
	Nationwide Permit						
	Section 9 Permit						
	Section 10 Permit						
	NPDES Permit						
	Permit to Install						
	Regional General Permit						
	_						
	ODNR Permit						
Ш	Oil & Gas Storm Water General F						
_	there other aquatic resource						—
	_	ermitte	ent Streams	eral Strea	ms Non-	Isolated Wetlands	Lakes/Ponds
	on 3: Fees						
_	u exempt from fees?				=	_	eave fee section blank)
	an After the Fact (ATF) appl				Yes	X No	
	double the fees. Maximum f	ees c	of \$10,000				
	ation Fee =					\$200.00	
Reviev			2.22	4 =000	_	*	
wetian	d Acres Impacted			\$500.0		\$110.00 \$110.00	
	Total Face	/¢200		Review F		\$110.00	
	rotal rees	-	Application Fee + Total Re		-	\$310.00	
Due at the time of application submittal = \$310.00 PLEASE MAKE FEE CHECK PAYABLE TO: "TREASURER, STATE OF OHIO"							
			·	01 0111			
	on 4: Submitted Documen						
_	all documents/items that ha	ve be	en submitted.				
	X Proposed Project Mapping						
Upload File(s): Item 3B_Photograph Location Map.pdf, Item 4 Description of Impactspdf, Item 4B-1_Prop Site Plan and Impacts.pdf, Item 4A-2_Aerial Photograph.pdf, Item 4A-1_Topographic Map.pdf, Item 4A-3_Vicinity Map.pdf							
Wetland Delineation Report							
Upload File(s): FINAL CMH 086_Jurisdictional WOTUS Report_1_15_2021.pdf							
Wetland categorization (including 10-page ORAM sheets)							
Upload File(s): Wetland A.pdf, Wetland C.pdf, NHD Response.pdf, Wetland B.pdf							
Upload File(s): Wetland Photos.pdf							
Upload File(s): LRH-2021-72-SCR CMH-086 AJD Request AJD Letter.pdf							
Ш	Proposed Mitigation Plan						
Section	on 5: Applicant and Agent	Sign	ature				

Application is hereby made for an Isolated Wetland Permit. I certify that the information provided on this form and all attachments related to this project are true and accurate to the best of my knowledge.			
Applicant Name (printed or typed):	Applicant Signature:		
Agent Name (printed or typed):	Agent Signature:		



Application for Section 401 Water Quality Certification - Proposed Wetland Impacts and Mitigation Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permitting Unit

Wetland ID ORAM Score Cat. Ohio EPA Reviewer Size (Acres) Proposed Impacts (Acres) Verified by Ohio EPA? Who Verified Forest None Total Forest None	Total 0.16					
	0.16					
Wetland C 49.0 2 No 0.16 0.00 0.16 0.16 0.00	0.00					
Wetland B 48.0 2 No 0.03 0.00 0.03 0.03 0.00	0.03					
Wetland A 45.0 2 No 0.00 0.03 0.03 0.00 0.03	0.03					
Wetland Acreage Totals 0.19 0.03 0.22 0.19 0.03	0.22					
Totals: Category 1 Wetlands 0.00 0.00 0.00 0.00	0.00					
Totals: Category 2 Wetlands 0.19 0.03 0.22 0.19 0.03	0.22					
Totals: Category 3 Wetlands 0.00 0.00 0.00 0.00	0.00					
Section 2: Proposed Wetland Mitigation (Check All That Apply) Preferred Alternative						
Wetland Mitigation Bank	Wetland Mitigation Bank					
Mitigation Bank: Other Mitigation Bank:						
Number of Forested Credits: Type of Credits (if applicable):	(if applicable):					
Number of Non-Forested Credits: Type of Credits (if applicable):						
Proof of Reservation?						
☒ In-Lieu Fee Program ILF Sponsor: The Nature Conservancy Other ILF Sponsor:	Nature Conservancy Other ILF Sponsor:					
Number of Wetland Credits: 0.6						
✓ Proof of Reservation?						
Upload File(s): AWS CMH-086_Letter of Credit Availability and Reservation_updated 2.22.2021_Upper Scioto.pdf						
On-Site Permittee-Responsible Mitigation						
Restoration/Creation Type of Wetland: Acres:	Acres:					
Preservation Type of Wetland: Acres:	Acres:					
Enhancement Type of Wetland: Acres:	Acres:					
☐ Other						
Other Description:						
Off-Site Permittee-Responsible Mitigation						
Restoration/Creation Type of Wetland: Acres:						

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☐ Preservation	Type of Wetland:	Acres:	
☐ Enhancement	Type of Wetland:	Acres:	
☐ Other			
Other Description:			

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