Letter of Notification for the Drew Extension East and West 138 kV Transmission Line Project



BOUNDLESS ENERGY"

PUCO Case No. 25-1024-EL-BLN

Submitted to:

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

Submitted by:

AEP Ohio Transmission Company, Inc.

November 17, 2025

LETTER OF NOTIFICATION

AEP Ohio Transmission Company, Inc.

Drew Extension East and West 138 kV Transmission Line Project

4906-6-05 Accelerated Application Requirements

AEP Ohio Transmission Company, Inc. (the Company) provides the following information to the Ohio Power Siting Board 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

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 proposes the Drew Extension East and West 138 kilovolt (kV) Transmission Line Project (Project), in the city of Columbus, Franklin County, Ohio. The Project involves construction of a new double circuit transmission line connecting the existing Bexley – Saint Clair 138 kV Transmission Line to a proposed distribution substation (Drew Station). The new transmission line will require new right-of-way (ROW) and will connect to the Drew Station from the north, 0.2-miles long. The adjustments required to the existing Bexley-Saint Clair 138 kV Transmission Line will be filed under a separate application (Case No. 25-1023-EL-BNR). The location of the Project is shown on Figures 1 and 2 in Appendix A.

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

- (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:
 - (b) Line(s) greater than 0.2 miles in length but not greater than two miles in length

The Project has been assigned PUCO Case No. 25-1024-EL-BLN.

B(2) Statement of Need

A new customer is requesting a 6.2 MVA of load in the Bexley area of Columbus, Ohio. Due to limitations in distribution capacity at Bexley Station, a new distribution station is being proposed (Drew Station). The station will be cut into the existing Bexley – Saint Clair 138 kV Transmission Line by a new 138 kV extension from the existing asset. To connect the new extension, pole replacements are required on the Bexley – Saint Clair Transmission Line to accommodate crossing Interstate 670 (I-670) while meeting National Electric Safety Code clearance requirements.

Failure to move forward with the Project will result in the Company's inability to serve the new customer. Additionally, existing customer service equipment in the area is forecasted to be at 92% capacity with potential overload conditions by 2027. The Project allows service to the new customer, operational flexibility between new and existing residential services, and additional capacity.

The Project need and solution was presented at the PJM TEAC meeting on 04/19/2024 and 11/15/2024 and subsequently assigned PJM identification number s3593.1-3. The project was identified in the Company's 2025 Long Term Forecast Report on pages 83 and 84 (see Appendix B).

B(3) Project Location

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

The location of the Project in relation to existing transmission lines and substations is shown on Figure 1, in Appendix A.

B(4) Alternatives Considered

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

Due to the location of the proposed Drew Station, short transmission line length, and minimal land use impacts in the Project area, no other alternatives were considered for the Project. Any other alternative would add additional length to the Project without any additional benefit. The Project crosses an existing railroad and I-670 to tie into the existing Bexley – Saint Clair 138 kV Transmission Line directly north of the substation, in an area of industrial land use. The Project will not impact any wetlands, streams, or cultural resource areas eligible for the National Register of Historic Places. Therefore, this Project represents the shortest, most direct route and is the most appropriate solution for meeting the Company's needs in the area.

B(5) Public Information Program

Describe its public information program to inform affected property owners and residents of the nature of the project and the proposed timeframe for project construction and restoration activities.

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

B(6) Construction Schedule

Provide an anticipated construction schedule and proposed in-service date of the project.

Construction of the Project is planned to begin in February 2026 with an anticipated in-service date of January 2027.

B(7) Area Map

Provide a map of at least 1:24,000 scale clearly depicting the facility and proposed limits of disturbance with clearly marked streets, roads, and highways, and an aerial image.

Figure 1, in Appendix A, identifies the location of the Project area on a United States Geological Survey 1:24,000 quadrangle map (Southeast Columbus). Appendix A, Figure 2 displays the Project components on a 2024 aerial photograph.

B(8) Property Agreements

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.

A list of properties required for the Project are provided in **Table 1** below.

Table 1 - Property Agreements

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
010-248768	Permit	No
010-248765	Permit	No
010-066014	Permit	No
010-035213	Permit	No
010-027353	Easement	No

The easement form exhibit provided in **Appendix C** represents the minimum rights the Company would require in order to construct, operate, and maintain these facilities.

B(9) Technical Features

Describe the following information regarding the technical features of the project:

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

The transmission line is estimated to include the following:

Voltage: 138 kV

Conductors: 1033.5 KCM ACSR Curlew Static Wire: (2) OPGW 144 Fiber

Insulators: Polymer ROW Width: 100 feet

Structure Type: One (1), double circuit, two-pole steel monopole dead-end

B(9)(b) Electric and Magnetic Fields

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

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

B(9)(c) Project Cost

The estimated capital cost of the project.

The cost estimate for the proposed Project, which is comprised of applicable tangible and capital costs, is approximately \$3,100,000 using a Class 4 estimate. Pursuant to the PJM OATT, the costs for this

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Project will be recovered in the AEP Ohio Transmission Company Inc.'s FERC formula rate (Attachment H-20 to the PJM OATT) and allocated to the AEP Zone.

B(10) Social and Ecological Impacts

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

B(10)(a) Land Use

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

The Project is located within the city of Columbus, Franklin County, Ohio. The Project area is bisected by I-670, running east and west, and is primarily surrounded by industrial and manufacturing land uses. There is scattered forested land along the interstate and south of the interstate surrounding the proposed Drew Station, and residential parcels to the south of the proposed Drew Station. There are two railroads in the Project area, one running east-west along the northern side of the proposed Drew Station and one running north-south across I-670, east of the Project. TG Sportscenter, a recreational area, is located along Woodland Avenue, south of the proposed Drew Station. There are no schools, hospitals, places of worship, or airports within 1,000 feet of the Project. No changes in land use are anticipated as a result of the Project. Approximately 0.7 acres of tree clearing is required.

B(10)(b) Agricultural Land

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.

No properties registered as agricultural district land are located in the Project area based on data received from the Franklin County Auditor's Office on October 30, 2025. No impacts to agricultural land use are anticipated as a result of the Project.

B(10)(c) Archaeological and Cultural Resources

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

The Company's consultant completed a Phase I Cultural Resources Management Investigation of the Project area and submitted the results to the Ohio State Historic Preservation Office (SHPO) on January 31, 2024. No sites listed on the National Register of Historic Places were identified within the Project area or adjacent portions of the parcels surveyed for cultural resources. Therefore, no further investigation was considered to be necessary by the consultant. Correspondence from the SHPO was received on February 22, 2024 and January 22, 2025 and is included in Appendix D. The SHPO stated

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that they agree that the Project will have no adverse effect on historic properties and that no further archaeological work is necessary.

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

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

A summary of anticipated permits and authorizations for the Project is provided in **Table 2** below. There are no other known local, state, or federal requirements that must be met prior to commencement of the Project.

Permit/Authorization/Coordination **Date** Agency Notice of Intent for authorization of Ohio Environmental Construction Stormwater Discharges Approval received 10/27/2025 **Protection Agency** under General Permit OHCooooo6 Approval expected November Storm Water Pollution Prevention Plan City of Columbus 2025 Coordination complete Ohio Historic Preservation Archaeology/Architectural 1/22/2025, no additional work Office required United States Fish and Consultation complete Threatened and Endangered Species Wildlife Service 7/26/2024 Consultation complete Ohio Department of Natural Threatened and Endangered Species Resources 8/25/2024 Ohio Department of Anticipated filing for I-670, **Highway Crossing** Transportation June 2026 Genesee & Wyoming Railroad Crossing Anticipated June 2026

Railroad

Table 2 – Anticipated Permits

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.

On January 19, 2024, coordination letters were submitted to the United States Fish and Wildlife Service and the Ohio Department of Natural Resources (ODNR) Ohio Natural Heritage Program, and Division of Wildlife, seeking an environmental review of the Project for potential impacts to state and/or federally

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protected species. The ODNR and the United States Fish and Wildlife Service provided responses on August 21, 2024 and July 26, 2024, respectively. Copies of the agencies' responses are presented in Appendix D.

Appendix E lists the federal and state threatened or endangered species in the Project area.

Two bat species, including northern long-eared bat (*Myotis septentrionalis*), and Indiana bat (*Myotis sodalis*), were identified as being within range of the Project area. The Company will adhere to seasonal tree clearing recommendations set forth by the ODNR. Based on the nature of the proposed Project activities and habitat characteristics of the surrounding vicinity, construction impacts to protected species are not anticipated.

B(10)(f) Areas of Ecological Concern

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

The Company's consultant conducted a wetland and stream delineation survey in the Project area on July 16, 2024, and prepared an Ecological Survey Report, which is provided in Appendix F. The survey of the Project area identified one wetland, one pond, and four ditches; no resources identified will be impacted by the Project.

Based on a review of the Protected Areas Database of the United States as well as the Conservation Easement Database, there are no state or national parks, forests, wildlife areas, or mapped conservation easements in the vicinity of the Project.

Based on review of the Federal Emergency Management Agency Flood Insurance Rate Map (map number 39049C0327K), no mapped Federal Emergency Management Agency floodplains are located in the Project area.

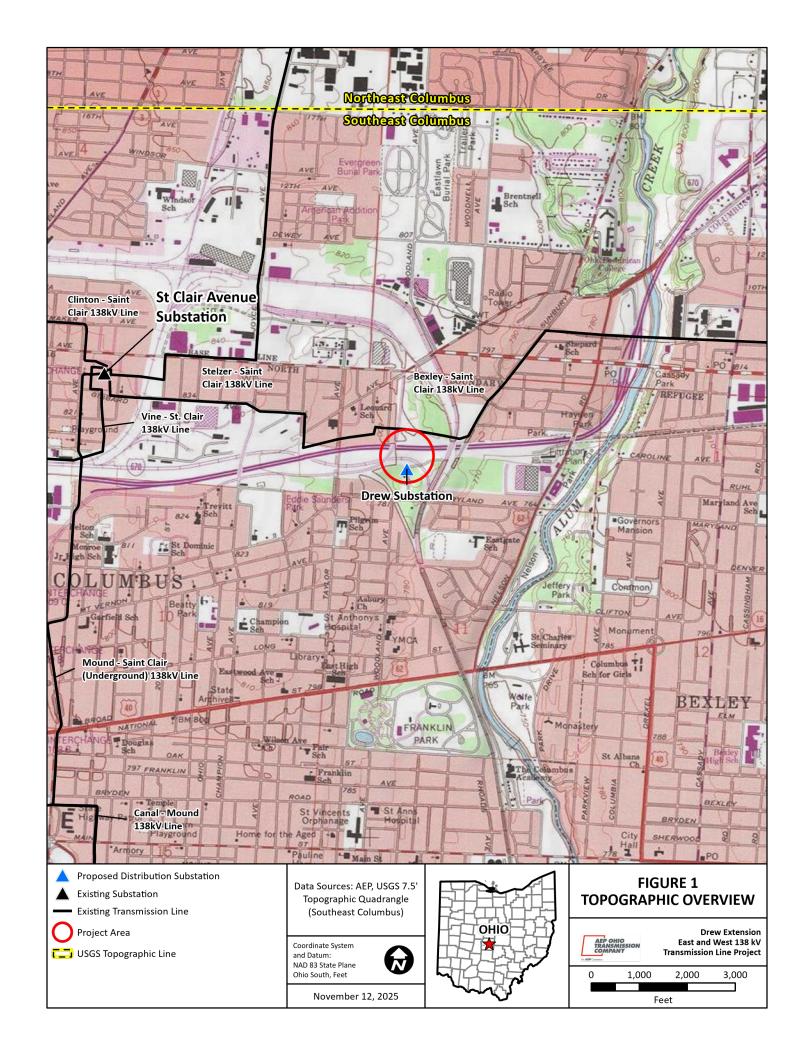
B(10)(g) Unusual Conditions

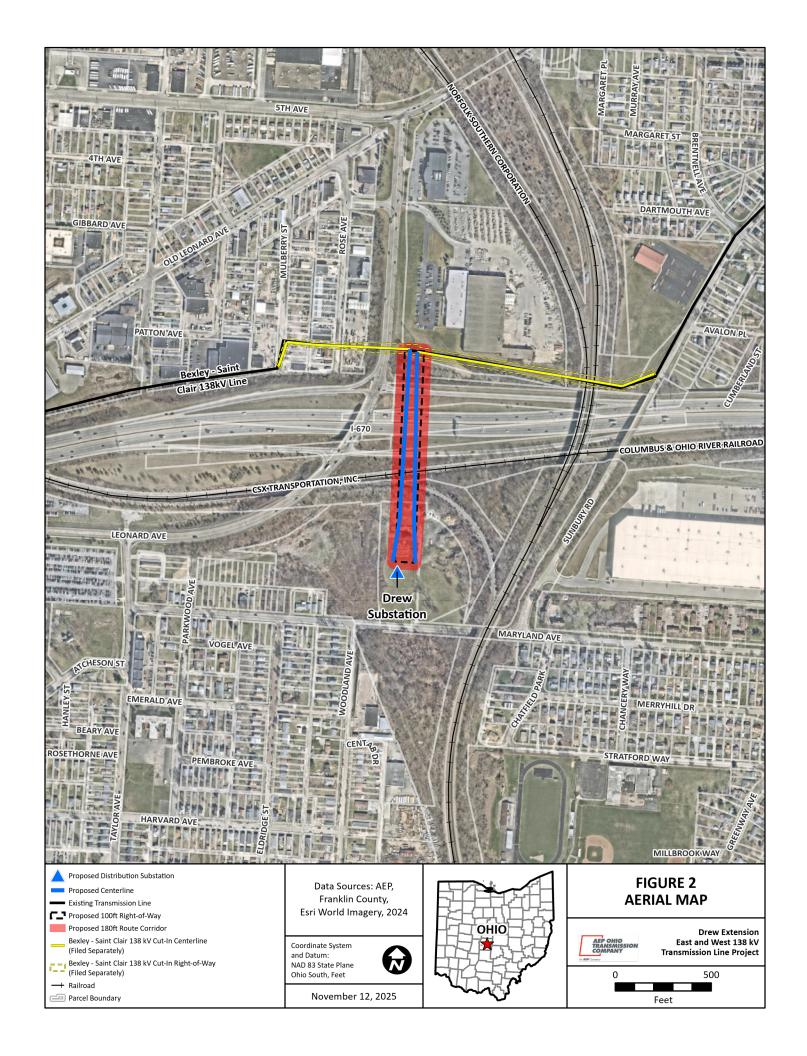
Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

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

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Appendix A Project Maps





Appendix B PJM Solution and Long Term Forecast Report

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	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION	Unable to serve new customer
13	MISCELLANEOUS:	
1	LINE NAME AND NUMBER:	Drew Extension East 138 kV (DP21C0025)
2	POINTS OF ORIGIN AND TERMINATION	Bexley - Drew INTERMEDIATE STATION - N/A
3	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS	~2.8 mi / 100 ft / 1 circuit (0.2 mi of line work)
4	VOLTAGE: DESIGN / OPERATE	138 kV / 138 kV
5	APPLICATION FOR CERTIFICATE:	2026
6	CONSTRUCTION:	2026
	CAPITAL INVESTMENT:	\$2.65 M
8	PLANNED SUBSTATION:	Drew
9	SUPPORTING STRUCTURES:	Steel
10	PARTICIPATION WITH OTHER UTILITIES	N/A
11	PURPOSE OF THE PLANNED TRANSMISSION LINE	Connect Drew to the Bexley - Saint Clair Ave 138 kV circuit.
12	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION	Unable to provide requested service to customer
13	MISCELLANEOUS:	
	LINE NAME AND	
_1	NUMBER: POINTS OF ORIGIN AND	Drew Extension West 138 kV (DP21C0025)
_ 2	TERMINATION RIGHTS-OF-WAY:	Drew - Saint Clair Ave INTERMEDIATE STATION - N/A
3	LENGTH / WIDTH / CIRCUITS	~1.5 mi / 100 ft / 1 circuit (0.2 mi of line work)
4	VOLTAGE: DESIGN / OPERATE	138 kV / 138 kV
	APPLICATION FOR	
5	CERTIFICATE:	2026
6	CONSTRUCTION:	2026
	CAPITAL INVESTMENT:	\$2.65 M
	PLANNED	
8	SUBSTATION:	Drew
	SUPPORTING	Steel
9	STRUCTURES:	

	PARTICIPATION WITH	
1 1	OTHER UTILITIES	N/A
	PURPOSE OF THE	
	PLANNED	Commont Draw to the Boyley Coint Clair Ave 120 by sirevit
امما	TRANSMISSION LINE	Connect Drew to the Bexley - Saint Clair Ave 138 kV circuit.
11	I RANSINISSION LINE	
	CONSEQUENCES OF	
	LINE CONSTRUCTION	Unable to provide requested service to customer
	DEFERMENT OR	
	TERMINATION	
	MISCELLANEOUS:	
	LINE NAME AND	
1	NUMBER:	Giles Extension 138 kV (s3445 DR19C0002)
	POINTS OF ORIGIN AND	1.) Giles - Huntley INTERMEDIATE STATION - Diamond Innovations
2	TERMINATION	2.) Clinton - Giles - Karl INTERMEDIATE STATION - N/A
	RIGHTS-OF-WAY:	
	LENGTH / WIDTH /	
3	CIRCUITS	~7.38 mi / 100 ft / 2 circuit (0.1 mi of line work)
	VOLTAGE: DESIGN /	, , , , , , , , , , , , , , , , , , ,
4	OPERATE	138 / 138 kV
	APPLICATION FOR	
5	CERTIFICATE:	2028
-	CONSTRUCTION:	2029 - 2030
7	CAPITAL INVESTMENT:	\$1.35 M
	PLANNED	
1 1	SUBSTATION:	Giles
	SUPPORTING	
	STRUCTURES:	Steel
	PARTICIPATION WITH	
	OTHER UTILITIES	N/A
<u> </u>	PURPOSE OF THE	
	PLANNED	Connect Giles to the Clinton - Huntley - Karl 138kV circuit.
11	TRANSMISSION LINE	Tanks Chock the Chinest Tranks Teak took thous.
	CONSEQUENCES OF	
	LINE CONSTRUCTION	Unable to provide requested service to customer
	DEFERMENT OR	
12	TERMINATION	
$\overline{}$	MISCELLANEOUS:	
	LINE NAME AND	
	NUMBER:	 West Lancaster - West Millersport 138 kV (TP2022923 s3308)
	POINTS OF ORIGIN AND	West Lancaster - West Millersport 138 kV (1F2022923 53306) West Lancaster - West Millersport 138 kV INTERMEDIATE STATION - South
	TERMINATION	Baltimore
	RIGHTS-OF-WAY:	Dalamore
	LENGTH / WIDTH /	
	CIRCUITS	~14.4 mi / 100 ft / 1 circuit
 3	VOLTAGE: DESIGN /	~14.4 mi / 100 ft / 1 circuit
	OPERATE	120 / 120 LV
		138 / 138 kV
	APPLICATION FOR	2025
$\overline{}$	CERTIFICATE:	2025
6	CONSTRUCTION:	2025 - 2026



AEP Transmission Zone M-3 Process Franklin, OH

Need Number: AEP-2024-OH033

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 4/7/2025

Proposed Solution:

Drew Station Transmission Line Cut in and Extension work.: A greenfield double circuit 138kV T-line (~0.2 miles) will be constructed from the existing Bexley - St. Clair Ave 138 kV line cut in the new distribution delivery at the proposed Drew station. Estimated Cost: \$5.302 M. (s3593.1)

Drew Station: To accommodate the new distribution deliveries requested a new 138/13.8 kV station called Drew will be constructed. The station will be configured as a four breaker ring utilizing 138 kV 3000A 63 kA breakers to provide service to two new 138/13.8 kV distribution transformers. Estimated Cost: \$4.746 M. (s3593.2)

Relay Upgrades at Bexley and St. Clair Avenue: Remote end work will be performed at Bexley and St. Clair Ave stations in or to coordinate with the newly proposed Drew station. Estimated Cost: \$0.746 M. (s3593.3)

Transmission Cost Estimate: \$10.793 M

Alternatives Considered:

• Transfers to other area distribution feeders and stations (St. Clair & Bexley) were considered, but capacity on these feeders is already very limited. This would only buy a year or two before overloading would again be an issue and would eliminate contingency transfer options. Reliability on the existing distribution feeder is poor and an ongoing issue with high profile customers.

Constructing a new distribution feeder out of Bexley was considered, but a new duct and
manhole system would have to be utilized for the entire length. This new feeder was
estimated to cost around \$10M. Additionally, this would not address the lack of contingency
transferability between feeders in the area.

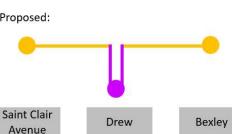
Supplemental Project ID: s3593.1-.3

Projected In-Service: 11/30/2026

Project Status: Scoping

Saint Clair
Avenue

Proposed:



Legend		
500 kV		
345 kV		
138 kV		
69 kV		
34.5 kV		
23 kV		
New		

Appendix C Easement Form

Line Name: Drew Extension East and West 138 kV

Line No.: TLN380:OH478 Easement No.:

EASEMENT AND RIGHT OF WAY

On this day	y of	_, 2025, in cons	ideration of Ten a	nd NO/100 Dollars	(\$10.00),
and other valu	able consideration, t	he receipt and	sufficiency of wh	ich is hereby acknow	wledged,
and the covena	ants hereinafter set t	forth, Landowr	er, whose addres	s is Address, City S	State Zip
("Grantor"), w	hether one or more	persons, hereby	grants, sells, con	nveys, and warrants	to AEP
Ohio Transmi	ission Company, In	c., a(n) Ohio co	orporation, a unit	of American Electri	c Power,
whose principa	al business address i	s 1 Riverside P	laza, Columbus, C	Ohio 43215, ("AEP"	') and its
successors, ass	igns, lessees and ten	ants a permanei	nt easement and ri	ght of way ("Easeme	ent"), for
electric transm	nission, distribution,	and communi	cation lines and	appurtenant equipn	nent and
fixtures, being,	in, on, over, under, t	hrough and acro	ss the following de	escribed lands of the	Grantor,
situated in the	State of	_, C	ounty, Jersey, Sec	ction, Township No.	., Range
No., Tax Parce	el Number				
Grantor claim	s title by	, Book	, Page	, recorded on	;
	County Recorder's		<u> </u>		
	_ ,				

Auditor/Key/Tax Number:

The Easement Area is more fully described and depicted on Exhibit "A", a copy of which is attached hereto and made a part hereof ("Easement Area").

GRANTOR FURTHER GRANTS AEP THE FOLLOWING RIGHTS:

The right, now or in the future, to construct, reconstruct, operate, maintain, alter, improve, extend, inspect and patrol (by ground or air), protect, repair, remove, replace, upgrade and relocate within the Easement Area, poles, towers, and structures, made of wood, metal, concrete or other materials, and crossarms, guys, anchors, grounding systems, and all other appurtenant equipment and fixtures, and to string conductors, wires and cables; together with the right to add to said facilities from time to time, and the right to do anything necessary, useful or convenient for the enjoyment of the Easement herein granted.

The right, in AEP's discretion, now or in the future, to cut down, trim, remove, and otherwise control, using herbicides or tree growth regulators or other means, any and all trees, overhanging branches, vegetation or brush situated within the Easement Area. AEP shall also have the right to cut down, trim or remove trees situated on lands of Grantor which adjoin the Easement Area when in the opinion of AEP those trees may endanger the safety of, or interfere with the construction, operation or maintenance of AEP's facilities or ingress or egress to, from or along the Easement Area.

The right of unobstructed ingress and egress, at any and all times, over, across and along and upon the Easement Area, and across the adjoining lands of Grantor as may be necessary for access to and from the Easement Area for the above referenced purposes.

THIS GRANT IS SUBJECT TO THE FOLLOWING CONDITIONS:

The Grantor reserves the right to cultivate annual crops, pasture, construct fences (provided gates are installed that adequately provide AEP the access rights conveyed herein) and roads or otherwise use the lands encumbered by this Easement in any way not inconsistent with the rights herein granted. In no event, however, shall Grantor, its heirs, successors, and assigns plant or cultivate any trees or place, construct, install, erect or permit any temporary or permanent building, structure, improvement or obstruction including but not limited to, storage tanks, billboards, signs, sheds, dumpsters, light poles, water impoundments, above ground irrigation systems, swimming pools or wells, or permit any alteration of the ground elevation, over, or within the Easement Area. AEP may, at Grantor's cost, remove any structure or obstruction if placed within the Easement Area, and may re-grade any alterations of the ground elevation within the Easement Area.

AEP agrees to repair or pay the Grantor for actual damages sustained by Grantor to crops, fences, gates, irrigation and drainage systems, drives, or lawns that are permitted herein, when such damages arise out of AEP's exercise of the rights herein granted.

The failure of AEP to exercise any of the rights granted herein, or the removal of any facilities from the Easement, shall not be deemed to constitute an abandonment or waiver of the rights granted herein.

This instrument contains the complete agreement, expressed or implied between the parties herein and shall inure to the benefit of and be binding on their respective successors, assigns, heirs, executors, administrators, lessees, tenants, and licensees.

This Easement may be executed in counterparts, each of which shall be deemed an original, but all of which, taken together, shall constitute one and the same instrument.

Any remaining space on this page left intentionally blank. See next page for signatures.

IN WITNESS WHEREOF, the Grantor has executed this Easement effective the day, month and year first above written.

		GRANTOR	
State of	§ 8		
County of	§ § §		
This instrument was 2025, by	s acknowledged be	efore me on the day of	
		Notary Public Print Name:	
		My Commission Expires:	

This instrument prepared by Marland L. Turner, Senior Counsel - Real Estate, American Electric Power Service Corporation, 1 Riverside Plaza, Columbus, OH 43215 for and on behalf of AEP Ohio Transmission Company, Inc., a unit of American Electric Power.

When recorded return to: American Electric Power - Transmission Right of Way, 8600 Smiths Mill Road, New Albany, OH 43054.

Appendix D Agency Correspondence

United States Department of the Interior



FISH AND WILDLIFE SERVICE

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



July 26, 2024

Project Code: 2024-0118583

Dear Ethan Wilson:

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

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

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

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

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

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

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

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

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

Sincerely,

Erin Knoll

Field Office Supervisor

Ein Hell

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



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate
Tara Paciorek, Chief
2045 Morse Road – Bldg. E-2
Columbus, Ohio 43229
Phone: (614) 265-6661

Fax: (614) 267-4764

August 21, 2024

Ethan Wilson Environmental Solutions & Innovations, Inc. 4300 Lynn Road, Suite 205 Ravenna, Ohio 44266

Re: 24-1083 - Drew Station and T-Line

Project: The proposed project involves the construction of new distribution greenfield station upgrades.

Location: The proposed project is located in Columbus, Franklin County, Ohio.

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

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

Yellow-crowned Night-heron (Nyctanassa violacea), SI

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened. The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species listed above is not recorded within the boundaries of the specified project area. However, please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

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

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

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

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH \geq 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 "RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED 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 Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

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

Federally Endangered

clubshell (*Pleurobema clava*)
rayed bean (*Villosa fabalis*)
northern riffleshell (*Epioblasma torulosa rangiana*)
snuffbox (*Epioblasma triquetra*)
purple cat's paw (*Epioblasma o. obliquata*)

Federally Threatened

rabbitsfoot (Quadrula cylindrica cylindrica)

State Endangered

elephant-ear (Elliptio crassidens crassidens)
pocketbook (Lampsilis ovata)
long solid (Fusconaia maculata maculate)
washboard (Megalonaias nervosa)
Ohio pigtoe (Pleurobema cordatum)

State Threatened

pondhorn (*Uniomerus tetralasmus*) Salamander Mussel (*Simpsonaias ambigua*)

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

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

State Endangered

goldeye (*Hiodon alosoides*) shortnose gar (*Lepisosteus platostomus*) Iowa darter (*Etheostoma exile*) spotted darter (*Etheostoma maculatum*) northern brook lamprey (*Ichthyomyzon fossor*) tonguetied minnow (*Exoglossum laurae*) popeye shiner (*Notropis ariommus*)

State Threatened

lake chubsucker (*Erimyzon sucetta*) paddlefish (*Polyodon spathula*)

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

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

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

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

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

Expiration: ODNR Environmental Reviews are typically valid for 2 years from the issuance date. If the scope of work, project area, construction limits, and/or anticipated impacts to natural resources have changed significantly from the original project submittal, then a new Environmental Review request should be submitted.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

In Reply Refer To: 07/19/2024 11:53:09 UTC

Project Code: 2024-0118583

Project Name: AEP Drew Station and T-Line

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

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

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

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

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

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

Project code: 2024-0118583

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

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

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

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

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

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

Attachment(s):

Official Species List

OFFICIAL SPECIES LIST

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

This species list is provided by:

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

PROJECT SUMMARY

Project Code: 2024-0118583

Project Name: AEP Drew Station and T-Line

Project Type: Distribution Line - Maintenance/Modification - Above Ground Project Description: Transmission line upgrade project. Approximately 10.9 acres.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.979882200000006,-82.95576447452763,14z



Counties: Franklin County, Ohio

ENDANGERED SPECIES ACT SPECIES

Project code: 2024-0118583

There is a total of 5 threatened, endangered, or candidate species on this species list.

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

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

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

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

Project code: 2024-0118583 07/19/2024 11:53:09 UTC

MAMMALS

NAME STATUS

Indiana Bat *Myotis sodalis*

Endangered

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

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

Northern Long-eared Bat Myotis septentrionalis

Endangered

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

• This species only needs to be considered if the project includes wind turbine operations.

Species profile: https://ecos.fws.gov/ecp/species/9045

CLAMS

NAME STATUS

Round Hickorynut *Obovaria subrotunda*

Threatened

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

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

Salamander Mussel Simpsonaias ambigua

Proposed

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

habitat.

Endangered

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

INSECTS

NAME STATUS

Monarch Butterfly *Danaus plexippus*

Candidate

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

CRITICAL HABITATS

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

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

Project code: 2024-0118583 07/19/2024 11:53:09 UTC

IPAC USER CONTACT INFORMATION

Agency: Environmental Solutions & Innovations, Inc.

Name: Ethan Wilson

Address: 4300 Lynn Road, Suite 205

City: Ravenna State: OH Zip: 44266

Email ewilson@envsi.com

Phone: 7245910686



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

In Reply Refer To: 07/19/2024 11:57:54 UTC

Project code: 2024-0118583

Project Name: AEP Drew Station and T-Line

Federal Nexus: no

Federal Action Agency (if applicable):

Subject: Technical assistance for 'AEP Drew Station and T-Line'

Dear Ethan Wilson:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on July 19, 2024, for 'AEP Drew Station and T-Line' (here forward, Project). This project has been assigned Project Code 2024-0118583 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter. *Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.*

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis, your project is not reasonably certain to cause incidental take of the northern long-eared bat. Unless the Service advises you within 15 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Other Species and Critical Habitat that May be Present in the Action Area

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

- Indiana Bat Myotis sodalis Endangered
- Monarch Butterfly Danaus plexippus Candidate
- Round Hickorynut Obovaria subrotunda Threatened
- Salamander Mussel Simpsonaias ambigua Proposed Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species and/or critical habitat listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Steps

<u>Coordination with the Service is complete.</u> This letter serves as technical assistance. All conservation measures should be implemented as proposed. Thank you for considering federally listed species during your project planning.

We are uncertain where the northern long-eared bat occurs on the landscape outside of known locations. Because of the steep declines in the species and vast amount of available and suitable forest habitat, the presence of suitable forest habitat alone is a far less reliable predictor of their presence. Based on the best available information, most suitable habitat is now expected to be unoccupied. During the interim period, while we are working on potential methods to address this uncertainty, we conclude take is not reasonably certain to occur in areas of suitable habitat where presence has not been documented.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Ohio Ecological Services Field Office and reference Project Code 2024-0118583 associated with this Project.

Action Description

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

1. Name

AEP Drew Station and T-Line

2. Description

The following description was provided for the project 'AEP Drew Station and T-Line':

Transmission line upgrade project. Approximately 10.9 acres.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.979882200000006,-82.95576447452763,14z



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of "may affect, but not likely to adversely affect" for the Endangered northern long-eared bat (*Myotis septentrionalis*).

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. The action area does not overlap with an area for which U.S. Fish and Wildlife Service currently has data to support the presumption that the northern long-eared bat is present. Are you aware of other data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed NLEB acoustic detections. Data on captures, roost tree use, and acoustic detections should post-date the year when whitenose syndrome was detected in the relevant state. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

No

3. Does any component of the action involve construction or operation of wind turbines?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

4. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

No

PROJECT QUESTIONNAIRE

IPAC USER CONTACT INFORMATION

Agency: Environmental Solutions & Innovations, Inc.

Name: Ethan Wilson

Address: 4300 Lynn Road, Suite 205

Ravenna City: State: OH Zip: 44266

Email ewilson@envsi.com

Phone: 7245910686



In reply, refer to 2024-FRA-60313

February 22, 2024

Ryan Weller Weller & Associates, Inc. 1395 W. Fifth Ave. Columbus, OH 43212 rweller@wellercrm.com

RE: Drew Station Project, City of Columbus, Franklin County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received January 31, 2024, regarding the proposed Drew Station Project, City of Columbus, Franklin 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 4906-4 & 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 1.89 ha (4.67 ac) Drew Station Project in the City of Columbus, Franklin County, Ohio* by Seth T. Cooper and Scott A. McIntosh (Weller & Associates, Inc. 2024). This project was conducted for a proposed electrical substation.

A literature review, visual inspection, shovel probes, and shovel test excavations were completed as part of the investigations. No previously identified archaeological sites are located within the project area and no new archaeological sites were found during this survey. Our office agrees no additional archaeological survey is needed.

A literature review and field survey were conducted as part of the investigations. A total of six (6) resources fifty years of age or older were identified in the Area of Potential Effects (APE). It is Weller's recommendation that these resources are not eligible for listing in the National Register of Historic Places (NRHP). Our office agrees with Weller's recommendations of eligibility.

Based on the information provided, we agree the project, as proposed, will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional cultural resources are discovered during the implementation of this project. In such a situation, this office should be contacted. If you have any questions, please contact me by email at cgullett@ohiohistory.org or Joy Williams at jwilliams@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Catherine Gullett, Project Reviews Coordinator

Resource Protection and Review

RPR Serial No: 1101660



In reply, refer to 2024-FRA-60313

January 22, 2025

Ryan Weller Weller & Associates, Inc. 1395 W. Fifth Ave. Columbus, OH 43212 rweller@wellercrm.com

RE: Drew Station Project, City of Columbus, Franklin County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received December 24, 2024, regarding the proposed Drew Station Project, City of Columbus, Franklin 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 4906-4 & 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 Addendum: Cultural Resources Management Investigations for the Drew Station and Transmission Line Project East 138kV Project in the City of Columbus, Franklin County, Ohio (PO 81284077; BPID DP21C25B0; WO T10700808002) by Ryan J. Weller (Weller & Associates, Inc. 2024). This project was conducted for additional areas located outside those investigated by the previous survey associated with this project. A literature review, visual inspection, shovel probes, and photographic documentation were completed as part of the investigations. These investigations documented extensive disturbance throughout the addendum project area. No previously identified archaeological sites are located within the addendum project area and no new archaeological sites were found during this survey. Our office agrees no additional archaeological survey is needed.

Based on the information provided, we continue to agree the project, as proposed, will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional cultural resources are discovered during the implementation of this project. In such a situation, this office should be contacted. If you have any questions, please contact me by email at cgullett@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Catherine Gullett, Project Reviews Coordinator Resource Protection and Review

State Historic Preservation Office

RPR Serial No. 1106372

Appendix E Threatened and Endangered Species Table

Results: July 6th & August 21st, 2024

RARE, THREATENED, OR ENDANGERED SPECIES HABITAT

Summary of Potential Ohio State-Listed and Federally Listed Species within AEP's Drew Station and T-Line Project in Franklin County, Ohio.

Common/Scientific Name	Federal	State	erally Listed Species within AEP's Drew Station and T-Line Project in Franklin County, Ohio. Habitat Preference	Habitat Observed in	Aviodance	Agency Comment ²	Potential Impacts
Common/Coleman Name	Listing ¹	Listing ¹	Habitat i Colonic	Project Area?	Dates	Agency Comment	r otential impacts
			Mammals				
Indiana bat/ <i>Myotis sodalis</i>	E	E	Suitable summer habitat for the Indiana bat includes a wide variety of forested/wooded habitats where they roost, forage, and breed. Habitats potentially include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures. Females form nursery colonies under exfoliating bark of dead, dying, and living trees in a variety of habitat types, including upland and riparian habitats.	Yes	1 April through 30 September	USFWS and ODNR-DOW recommend conserving trees exhibiting loose, shaggy bark and/or crevices, holes, or cavities. Tree cutting is recommended between 1 October and 31 March. If suitable trees require removal during summer months, ODNR-DOW recommends completing a mist net or acoustic survey between 1 June and 15 August, prior to any cutting. If no tree removal is proposed, the project is unlikely to impact Indiana bat. A desktop assessment for features potentially suitable as bat hibernacula was conducted and portal searches were completed within the Project's AOI. No features potentially suitable for hibernating bat use were documented.	Yes
northern long-eared bat/Myotis septentrionalis	E	E	Suitable summer habitat for the northern long-eared bat includes a wide variety of forested/wooded habitats where they roost, forage, and breed. Habitats potentially include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures. Maternity colonies are typically found in hollow trees and under bark although bat-houses, buildings, and other anthropogenic structures are also used.	Yes	1 April through 30 September	Same as above for Indiana bat.	Yes
tricolored bat/ <i>Perimyotis</i> subflavus	PE	E	During spring and summer (1 April through 15 October), the species predominantly roosts in trees, but unlike bats in the genus Myotis, they do not use cracks and crevices in trees. In the Midwest portion of their range, this species primarily roosts in clusters of dead leaves hanging from the branches of trees. Maternity colonies are primarily formed within dead leaf clusters, but can also form in live leaf foliage, buildings, caves, and rock crevices	Yes	1 April through 30 September	Same as above for Indiana bat.	Yes
little brown bat/Myotis lucifugus	N/A	E	During spring and summer (1 April through 15 October), the specie predominantly roosts in trees behind loose, exfoliating bark, in crevices and cavities. They may roost in anthropogenic structures as well. For natural roosts, both sexes prefer old-growth and mature trees at sites close to water based on a preference to forage over open water, near shorelines, and along edge habitat providing crevices and cavities. However, the species is also dependent on forest structure surrounding roost trees.	Yes	1 April through 30 September	Same as above for Indiana bat.	Yes
			Clams				
clubshell/ <i>Pleurobema clava</i>	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Based on location and lack of in-water work proposed in a perennial stream, the project is unlikely to impact this species.	No
rayed bean/ <i>Villosa fabalis</i>	Е	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
northern riffleshell/ <i>Epioblasma</i> torulosa rangiana	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
snuffbox/Epioblasma triquetra	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
purple cat's paw/Epioblasma o. obliquata	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
rabbitsfoot/Quadrula cylindrica cylindrica	Т	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No

otocol (2024) No	Year round	Same as above for clubshell.	No
otocol (2024) No	Year round	Same as above for clubshell.	No
otocol (2024) No	Year round	Same as above for clubshell.	No
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tocol (2024). No	Year round	Same as above for clubshell.	No
otocol (2024) No	Year round	Same as above for clubshell.	No
Fish			
ns, oxbows, or marshes. No	15 March through 30 June	Based on location and lack of in-water work proposed in a perennial stream, the project is unlikely to impact this species.	No
ns, oxbows, or marshes. No	15 March through 30 June	Same as above for goldeneye.	No
ns, oxbows, or marshes. No	15 March through 30 June	Same as above for goldeneye.	No
	15 March		
ns, oxbows, or marshes. No	through 30 June	Same as above for goldeneye.	No
ns, oxbows, or marsnes. No	through 30	Same as above for goldeneye. Same as above for goldeneye.	No No
	through 30 June 15 March through 30		
ns, oxbows, or marshes. No	through 30 June 15 March through 30 June 15 March through 30	Same as above for goldeneye.	No
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paddlefish/ <i>Polyodon spathula</i>	N/A	Т	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	15 March through 30 June	Same as above for goldeneye.	No
			Bird				
Yellow-crowned night- heron/ <i>Nyctanassa violacea</i>	N/A	SI	Cypress swamps, mangroves, bayous, streams. Commonly occurs in shallow tidal waters, also along lowland rivers, where trees or other heavy cover is nearby. Nests in mangrove or cypress swamps, riverside groves, thickets near water. Sometimes nests in trees within suburbs or cities.	No	N/A	No impacts anticipated.	No
Insect							
monarch butterfly/ <i>Danaus</i> plexippus	CA	N/A	Monarch butterflies have an extensive range within the U.S. and are associated with open lands, including meadows, native prairie patches, roadsides, woodland clearing, early successional woody habitat, utility corridors, and grassland/shrublands, where host and nectar plants are commonly found. Monarchs are considered habitat generalists as they forage on any nectar-producing flowering vegetation, but also considered habitat specialists as monarch caterpillars (larvae) rely exclusively on milkweed species (Asclepias spp.)	No	N/A	No impacts anticipated.	No
E=Endangered; T=Threatened; PE=Proposed Endangered; CA; Candidate; SC=State Species of Concern; SI=State Special Interest							

¹E=Endangered; T=Threatened; PE=Proposed Endangered; CA; Candidate; SC=State Species of Concern; SI=State Special Interest ²Information is based on literature review information response from ODNR-DOW and USFWS

Appendix F Ecological Survey Report

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1.0 Introduction

American Electric Power (AEP) retained Environmental Solutions & Innovations, Inc. (ESI) to perform an ecological survey along the Drew Station and T-Line Project in Urban township, Franklin County, Ohio within the project's proposed Area of Investigation (AOI; Appendix A, Figures 1 and 2). This report outlines review of published resource materials, existing site conditions, agency coordination, and results of the field investigation within the AOI.

2.0 Methods

2.1 Desktop Evaluation

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

2.2 Threatened and Endangered Species

To assist with Endangered Species Act (ESA), Bald and Golden Eagle Protection Act (BGEPA), and Migratory Bird Treaty Act (MBTA) compliance, a project review was requested from U.S. Fish and Wildlife Service (USFWS) Ohio Field Office, and a response was received on 26 July 2024 (Appendix B). To identify potential conflicts with state-listed species and appropriately complete Ohio Rapid Assessment Methods (ORAMs), a request was submitted to Ohio Department of Natural Resources (ODNR) and a response was received on 21 August 2024 (Appendix B).

2.3 Aquatic Resource Delineations

Wetland delineation procedures follow the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, Version 2.0 (USACE 2010), and the 1987 Corps of Engineers Wetland Delineation Manual (USACE 1987). The federally regulated Ordinary High Water Mark (OHWM) of streams is delineated using the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary High Water Mark Identification. Each stream is categorized regarding its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. Delineated aquatic resources are classified according to the Classification of Wetland and Deepwater Habitats of the United States (Cowardin et al. 1979). Each wetland identified is evaluated consistent with the Ohio Rapid Assessment Method (ORAM, Version 5.0), developed by the Ohio Environmental Protection Agency (OEPA). Streams with drainage areas less than one

ESI

square mile are evaluated using the field evaluation manual for Ohio's primary headwater habitat streams (OEPA 2020). Aquatic resource boundaries and sample points are surveyed using a GPS with sub-meter accuracy.

3.0 Results

3.1 Desktop Evaluation

3.1.1 Topography and Drainage

The project appears on the Southeast Columbus, Ohio U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle map (Appendix A, Figure 1). The AOI consists of relatively flat, urban terrain with elevations ranging from approximately 777 to 819 feet. The site drains to unnamed tributaries (UNTs).

3.1.2 Soil Survey

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

3.1.3 National Wetlands Inventory

No NWI-mapped resources were identified within the AOI. Note that NWI maps are derived from aerial photo interpretation and are suitable for general planning purposes only; they typically do not show all the wetland or watercourse resources within any given area. All areas were field reviewed.

3.1.4 Aerial Imagery

Aerial mapping from 1984 through 2024 shows the site as dominated by urban and industrial areas. Aerial representation of the site is provided in Appendix A, Figure 2.

3.2 Threatened and Endangered Species

A summary table of state and federally threatened, and endangered species potentially occurring within the AOI is provided in Appendix D.

3.3 Aquatic Resource Delineations

One wetland, one pond, and four ditches were identified and delineated within the AOI and are summarized in Appendix E. Four additional upland sample points were also taken to characterize upland conditions. Representative photographs of aquatic resources and additional upland sample points are provided in Appendix F. Field data sheets for wetland and upland sample points are provided in Appendix G. The aquatic



resource delineation map depicting resource locations is provided in Appendix A, Figure 2.

4.0 Conclusion

Results of desktop review and field investigations completed within the AOI on 16 July 2024 identified one wetland, one pond, and four ditches. Four additional upland sample points were taken to characterize the areas. Temporary or permanent impacts to these resources may require permits from the USACE and/or OEPA.

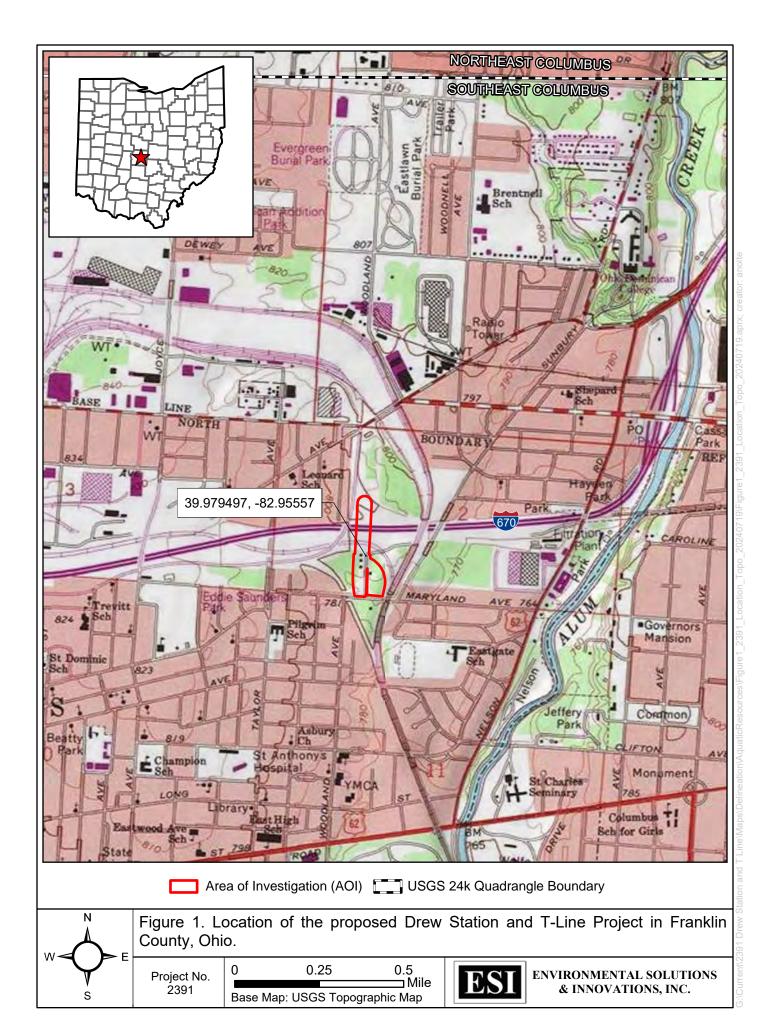
5.0 Literature Cited

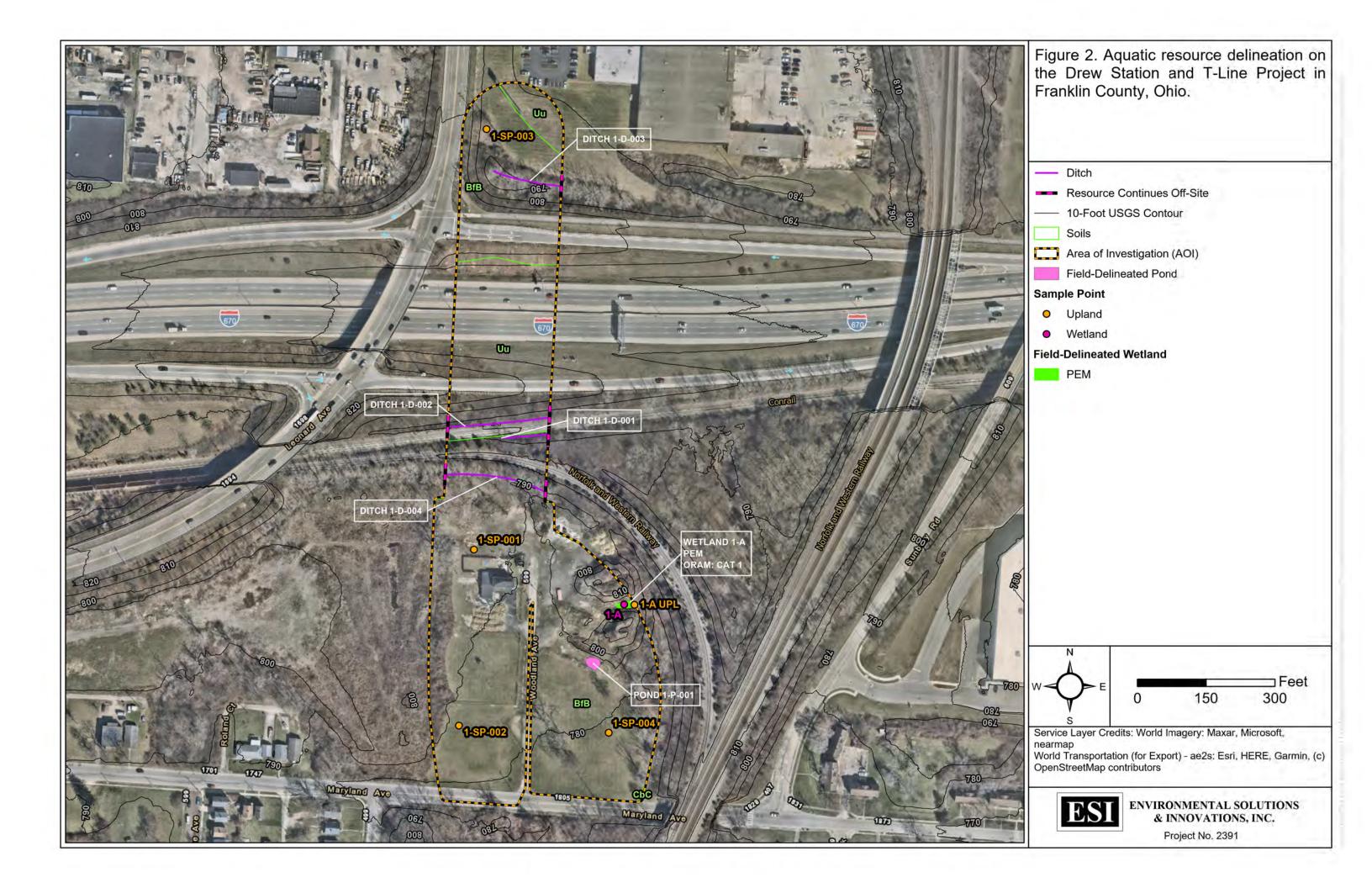
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APPENDIX A FIGURES







APPENDIX B AGENCY CORRESPONDENCE/DESKTOP ASSESSMENT



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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



July 26, 2024

Project Code: 2024-0118583

Dear Ethan Wilson:

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

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

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

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

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

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

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

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

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

Sincerely,

Erin Knoll

Field Office Supervisor

Ein Hell

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



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

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

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

August 21, 2024

Ethan Wilson Environmental Solutions & Innovations, Inc. 4300 Lynn Road, Suite 205 Ravenna, Ohio 44266

Re: 24-1083 - Drew Station and T-Line

Project: The proposed project involves the construction of new distribution greenfield station upgrades.

Location: The proposed project is located in Columbus, Franklin County, Ohio.

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

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

Yellow-crowned Night-heron (Nyctanassa violacea), SI

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened. The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species listed above is not recorded within the boundaries of the specified project area. However, please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

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

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

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

In addition, the entire state of Ohio is within the range of the Indiana bat (Myotis sodalis), a state endangered and federally endangered species, the northern long-eared bat (Myotis septentrionalis), a state endangered and federally endangered species, the little brown bat (Myotis lucifugus), a state endangered species, and the tricolored bat (Perimyotis subflavus), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH \geq 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 "RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED 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 Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

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

Federally Endangered

clubshell (Pleurobema clava) rayed bean (Villosa fabalis) northern riffleshell (Epioblasma torulosa rangiana) snuffbox (*Epioblasma triquetra*) purple cat's paw (Epioblasma o. obliquata)

Federally Threatened

rabbitsfoot (Quadrula cylindrica cylindrica)

State Endangered

elephant-ear (Elliptio crassidens crassidens) pocketbook (Lampsilis ovata) long solid (Fusconaia maculata maculate) washboard (*Megalonaias nervosa*) Ohio pigtoe (*Pleurobema cordatum*)

State Threatened

pondhorn (*Uniomerus tetralasmus*) Salamander Mussel (*Simpsonaias ambigua*)

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

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

State Endangered

goldeye (Hiodon alosoides) shortnose gar (Lepisosteus platostomus) Iowa darter (Etheostoma exile) spotted darter (Etheostoma maculatum) northern brook lamprey (Ichthyomyzon fossor) tonguetied minnow (Exoglossum laurae) popeye shiner (Notropis ariommus)

State Threatened

lake chubsucker (*Erimyzon sucetta*) paddlefish (*Polyodon spathula*)

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

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

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

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

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

Expiration: ODNR Environmental Reviews are typically valid for 2 years from the issuance date. If the scope of work, project area, construction limits, and/or anticipated impacts to natural resources have changed significantly from the original project submittal, then a new Environmental Review request should be submitted.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

In Reply Refer To: 07/19/2024 11:53:09 UTC

Project Code: 2024-0118583

Project Name: AEP Drew Station and T-Line

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

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

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

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

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

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

Project code: 2024-0118583

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

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

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

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

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

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

Attachment(s):

Official Species List

OFFICIAL SPECIES LIST

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

This species list is provided by:

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

PROJECT SUMMARY

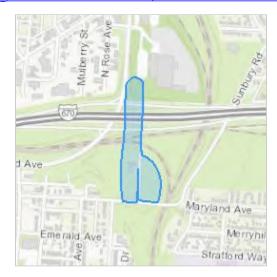
Project Code: 2024-0118583

Project Name: AEP Drew Station and T-Line

Project Type: Distribution Line - Maintenance/Modification - Above Ground Project Description: Transmission line upgrade project. Approximately 10.9 acres.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.979882200000006,-82.95576447452763,14z



Counties: Franklin County, Ohio

ENDANGERED SPECIES ACT SPECIES

Project code: 2024-0118583

There is a total of 5 threatened, endangered, or candidate species on this species list.

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

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

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

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

07/19/2024 11:53:09 UTC Project code: 2024-0118583

MAMMALS

NAME **STATUS**

Indiana Bat *Myotis sodalis*

Endangered

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

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

Northern Long-eared Bat Myotis septentrionalis

Endangered

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

• This species only needs to be considered if the project includes wind turbine operations.

Species profile: https://ecos.fws.gov/ecp/species/9045

CLAMS

NAME **STATUS**

Round Hickorynut Obovaria subrotunda

Threatened

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

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

Salamander Mussel Simpsonaias ambigua

Proposed

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

habitat.

Endangered

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

INSECTS

NAME **STATUS**

Monarch Butterfly *Danaus plexippus*

Candidate

No critical habitat has been designated for this species.

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

CRITICAL HABITATS

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

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

Project code: 2024-0118583 07/19/2024 11:53:09 UTC

IPAC USER CONTACT INFORMATION

Agency: Environmental Solutions & Innovations, Inc.

Name: Ethan Wilson

Address: 4300 Lynn Road, Suite 205

City: Ravenna State: OH Zip: 44266

Email ewilson@envsi.com

Phone: 7245910686



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

In Reply Refer To: 07/19/2024 11:57:54 UTC

Project code: 2024-0118583

Project Name: AEP Drew Station and T-Line

Federal Nexus: no

Federal Action Agency (if applicable):

Subject: Technical assistance for 'AEP Drew Station and T-Line'

Dear Ethan Wilson:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on July 19, 2024, for 'AEP Drew Station and T-Line' (here forward, Project). This project has been assigned Project Code 2024-0118583 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter. *Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.*

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis, your project is not reasonably certain to cause incidental take of the northern long-eared bat. Unless the Service advises you within 15 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Other Species and Critical Habitat that May be Present in the Action Area

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

- Indiana Bat Myotis sodalis Endangered
- Monarch Butterfly Danaus plexippus Candidate
- Round Hickorynut *Obovaria subrotunda* Threatened
- Salamander Mussel Simpsonaias ambiqua Proposed Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species and/or critical habitat listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Steps

<u>Coordination with the Service is complete.</u> This letter serves as technical assistance. All conservation measures should be implemented as proposed. Thank you for considering federally listed species during your project planning.

We are uncertain where the northern long-eared bat occurs on the landscape outside of known locations. Because of the steep declines in the species and vast amount of available and suitable forest habitat, the presence of suitable forest habitat alone is a far less reliable predictor of their presence. Based on the best available information, most suitable habitat is now expected to be unoccupied. During the interim period, while we are working on potential methods to address this uncertainty, we conclude take is not reasonably certain to occur in areas of suitable habitat where presence has not been documented.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Ohio Ecological Services Field Office and reference Project Code 2024-0118583 associated with this Project.

Project code: 2024-0118583

Action Description

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

1. Name

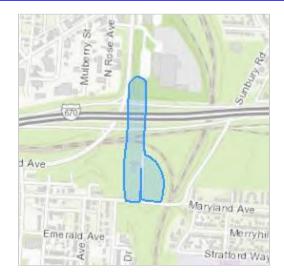
AEP Drew Station and T-Line

2. Description

The following description was provided for the project 'AEP Drew Station and T-Line':

Transmission line upgrade project. Approximately 10.9 acres.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.979882200000006,-82.95576447452763,14z



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of "may affect, but not likely to adversely affect" for the Endangered northern long-eared bat (Myotis septentrionalis).

OUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. The action area does not overlap with an area for which U.S. Fish and Wildlife Service currently has data to support the presumption that the northern long-eared bat is present. Are you aware of other data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed NLEB acoustic detections. Data on captures, roost tree use, and acoustic detections should post-date the year when whitenose syndrome was detected in the relevant state. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

No

3. Does any component of the action involve construction or operation of wind turbines?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

4. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

No

PROJECT QUESTIONNAIRE

IPAC USER CONTACT INFORMATION

Agency: Environmental Solutions & Innovations, Inc.

Name: Ethan Wilson

Address: 4300 Lynn Road, Suite 205

City: Ravenna State: ОН 44266 Zip:

Email ewilson@envsi.com

Phone: 7245910686

APPENDIX C SOIL REPORT





MAP LEGEND

Area of Interest (AOI) Transportation Area of Interest (AOI) Rails Soils Interstate Highways **Soil Rating Polygons** US Routes Hydric (100%) Major Roads Hydric (66 to 99%) Local Roads \sim Hydric (33 to 65%) **Background** Hydric (1 to 32%) Aerial Photography Not Hydric (0%) Not rated or not available Soil Rating Lines Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Soil Rating Points** Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Water Features** Streams and Canals

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Franklin County, Ohio Survey Area Data: Version 22, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 21, 2023—Aug 8, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

	_		,	
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Bennington-Urban land complex, 0 to 6 percent slopes	6	8.7	80.1%
CbC	Cardington-Urban land complex, 6 to 12 percent slopes	5	0.0	0.1%
Uu	Urban land-Bennington complex, 0 to 6 percent slopes	6	2.2	19.8%
Totals for Area of Inter	rest	10.9	100.0%	

Description

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

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

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

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

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

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

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

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

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

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

Rating Options

Aggregation Method: Percent Present

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

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

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

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

Component Percent Cutoff: None Specified

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

Tie-break Rule: Lower

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

APPENDIX D RTE TABLE



Results: July 6th & August 21st, 2024

RARE, THREATENED, OR ENDANGERED SPECIES HABITAT

Summary of Potential Ohio State-Listed and Federally Listed Species within AEP's Drew Station and T-Line Project in Franklin County, Ohio.

Common/Scientific Name	Federal	State	erally Listed Species within AEP's Drew Station and T-Line Project in Franklin County, Ohio. Habitat Preference	Habitat Observed in	Aviodance	A 2	Potential Impacts	
Common/Scientific Name	Listing ¹	Listing ¹	Hausta Preference	Project Dates Area?		Agency Comment ²	r otomiai impuoto	
			Mammals					
Indiana bat/ <i>Myotis sodalis</i>	E	E	Suitable summer habitat for the Indiana bat includes a wide variety of forested/wooded habitats where they roost, forage, and breed. Habitats potentially include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures. Females form nursery colonies under exfoliating bark of dead, dying, and living trees in a variety of habitat types, including upland and riparian habitats.	Yes	1 April through 30 September	USFWS and ODNR-DOW recommend conserving trees exhibiting toose, shagpy bark and/or crevices, holes, or cavities. Tree cutting is recommended between 1 October and 31 March. If suitable trees require removal during summer months, ODNR-DOW recommends completing a mist net or acoustic survey between 1 June and 15 August, prior to any cutting. If no tree removal is proposed, the project is unlikely to impact Indiana bat. A desktop assessment for features potentially suitable as bat hibernacula was conducted and portal searches were completed within the Project's AOI. No features potentially suitable for hibernating bat use were documented.	Yes	
northern long-eared bat/Myotis septentrionalis	E	E	Suitable summer habitat for the northern long-eared bat includes a wide variety of forested/wooded habitats where they roost, forage, and breed. Habitats potentially include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures. Maternity colonies are typically found in hollow trees and under bark although bat-houses, buildings, and other anthropogenic structures are also used.	Yes	1 April through 30 September	Same as above for Indiana bat.	Yes	
tricolored bat/ <i>Perimyotis</i> subflavus	PE	E	During spring and summer (1 April through 15 October), the species predominantly roosts in trees, but unlike bats in the genus <i>Myotis</i> , they do not use cracks and crevices in trees. In the Midwest portion of their range, this species primarily roosts in clusters of dead leaves hanging from the branches of trees. Maternity colonies are primarily formed within dead leaf clusters, but can also form in live leaf foliage, buildings, caves, and rock crevices	Yes	1 April through 30 September	Same as above for Indiana bat.	Yes	
little brown bat/ <i>Myotis</i> lucifugus	N/A	E	During spring and summer (1 April through 15 October), the specie predominantly roosts in trees behind loose, exfoliating bark, in crevices and cavities. They may roost in anthropogenic structures as well. For natural roosts, both sexes prefer old-growth and mature trees at sites close to water based on a preference to forage over open water, near shorelines, and along edge habitat providing crevices and cavities. However, the species is also dependent on forest structure surrounding roost trees.	Yes	1 April through 30 September	Same as above for Indiana bat.	Yes	
			Clams					
clubshell/ <i>Pleurobema clava</i>	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Based on location and lack of in-water work proposed in a perennial stream, the project is unlikely to impact this species.	No	
rayed bean/Villosa fabalis	Е	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No	
northern riffleshell/ <i>Epioblasma</i> <i>torulosa rangiana</i>	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No	
snuffbox/ <i>Epioblasma triquetra</i>	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No	
purple cat's pawl <i>Epioblasma</i> o. obliquata	E	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No	
rabbitsfoot/Quadrula cylindrica cylindrica	Т	N/A	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No	

elephant-ear/Elliptio crassidens crassidens	N/A	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
pocketbook/ <i>Lampsilis ovata</i>	N/A	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
long solid/Fusconaia maculata maculata	N/A	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
washboard/ <i>Megalonaias</i> nervosa	N/A	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
Ohio pigtoe/ <i>Pleurobema</i> cordatum	N/A	E	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)	No	Year round	Same as above for clubshell.	No
salamander mussel/Simpsonaias ambigua	PE	Т	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024).	No	Year round	Same as above for clubshell.	No
pondhorn/ <i>Uniomerus</i> tetralasmus	N/A	Т	Freshwater streams as defined in the Ohio Mussel Survey Protocol (2024)		Year round	Same as above for clubshell.	No
			Fish				
goldeye/Hiodon alosoides	N/A	E	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	15 March through 30 June	Based on location and lack of in-water work proposed in a perennial stream, the project is unlikely to impact this species.	No
shortnose gar/Lepisosteus platostomus	N/A	E	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	15 March through 30 June	Same as above for goldeneye.	No
lowa darter/Etheostoma exile	N/A	E	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	15 March through 30 June	Same as above for goldeneye.	No
spotted darter/Etheostoma maculatum	N/A	E	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	15 March through 30 June	Same as above for goldeneye.	No
northern brook lampreyl <i>lchthyomyzon fossor</i>	N/A	E	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	15 March through 30 June	Same as above for goldeneye.	No
tonguetied minnow/Exoglossum laurae	N/A	E	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	15 March through 30 June	Same as above for goldeneye.	No
					15 March		
popeye shiner/Notropis ariommus	N/A	Е	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.	No	through 30 June	Same as above for goldeneye.	No

paddlefish/ <i>Polyodon spathula</i>	N/A	Т	Perennial streams, especially very slow moving, heavily vegetated streams, oxbows, or marshes.		15 March through 30 June	Same as above for goldeneye.	No		
Bird									
Yellow-crowned night- heron/ <i>Nyctanassa violacea</i>	N/A	SI	Cypress swamps, mangroves, bayous, streams. Commonly occurs in shallow tidal waters, also along lowland rivers, where trees or other heavy cover is nearby. Nests in mangrove or cypress swamps, riverside groves, thickets near water. Sometimes nests in trees within suburbs or cities.	No	N/A	No impacts anticipated.	No		
			Insect						
monarch butterfly/ <i>Danaus</i> plexippus	CA	N/A	Monarch butterflies have an extensive range within the U.S. and are associated with open lands, including meadows, native prairie patches, roadsides, woodland clearing, early successional woody habitat, utility corridors, and grassland/shrublands, where host and nectar plants are commonly found. Monarchs are considered habitat generalists as they forage on any nectar-producing flowering vegetation, but also considered habitat specialists as monarch caterpillars (larvae) rely exclusively on milkweed species (Asclepias spp.)	No	N/A	No impacts anticipated.	No		
¹ E=Endangered; T=Threatened			pered; CA; Candidate; SC=State Species of Concern; SI=State Special Interest						

²Information is based on literature review information response from ODNR-DOW and USFWS

APPENDIX E WETLAND/DITCH/POND TABLES



AEP Drew Station and T-Line Project WETLAND TABLE

	Location				Delineated	ORAM		
Wetland ID	Latitude	Longitude	Isolated?	Habitat Type	Area (acres)	Score	Category	
1-A	39.97894	-82.95477	Yes	PEM	0.010	11	1	

AEP Drew Station and T-Line Project DITCHES TABLE

	Loca			
Ditch ID	Latitude	Longitude	Delineated Length (feet)	
1-D-001	39.97994232	-82.95555115	103	
1-D-002	39.98002243	-82.95575714	222	
1-D-003	39.98147202	-82.95554352	153	
1-D-004	39.97969055	-82.9557724	225	
	702			

AEP Drew Station and T-Line Project POND TABLE

Pond ID	Loca	ation	Acreage
Folia ib	Latitude	Longitude	Acreage
1–P-001	39.978592	39.978592	0.015

APPENDIX F SITE PHOTOS



Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH



Wetland 1-A (North)



Wetland 1-A (East)



Wetland 1-A (South)



Wetland 1-A (West)

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH



Wetland 1-A (Soil)



Upland 1-A (North)



Upland 1-A (East)



Upland 1-A (South)

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH



Upland 1-A (West)



Upland 1-A (Soil)



Representative Upland Sample Point 1-SP-001 (North)



Representative Upland Sample Point 1-SP-001 (East)

Client/Site Name:

American Electric Power (AEP) Drew Station and T-Line Project **Site Location:** Franklin County, OH



Representative Upland Sample Point 1-SP-001 (South)



Representative Upland Sample Point 1-SP-001 (West)



Representative Upland Sample Point 1-SP-001 (Soil)



Representative Upland Sample Point 1-SP-002 (North)

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH



Representative Upland Sample Point 1-SP-002 (East)



Representative Upland Sample Point 1-SP-002 (South)



Representative Upland Sample Point 1-SP-002 (West)



Representative Upland Sample Point 1-SP-002 (Soil)

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location:Franklin County, OH



Representative Upland Sample Point 1-SP-003 (North)



Representative Upland Sample Point 1-SP-003 (East)



Representative Upland Sample Point 1-SP-003 (South)



Representative Upland Sample Point 1-SP-003 (West)

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH



Representative Upland Sample Point 1-SP-003 (Soil)



Representative Upland Sample Point 1-SP-004 (North)



Representative Upland Sample Point 1-SP-004 (East)



Representative Upland Sample Point 1-SP-004 (South)

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH



Representative Upland Sample Point 1-SP-004 (West)



Representative Upland Sample Point 1-SP-004 (Soil)



Ditch 1-D-001



Ditch 1-D-001

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH



Ditch 1-D-002



Ditch 1-D-002



Ditch 1-D-003



Ditch 1-D-003

Client/Site Name: American Electric Power (AEP) Drew Station and T-Line Project

Site Location: Franklin County, OH





Ditch 1-D-004

Ditch 1-D-004





Pond 1-P-001

Pond 1-P-001

APPENDIX G WETLAND AND UPLAND DATASHEETS



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Drew Station and T-Line	c	City/County: Franklin County Sampling Date: 202				
Applicant/Owner: AEP		State: Ohio Sampling Point: 1-A				
Investigator(s): E. Wilson	s	_ Section, Township, Range: S02 T5N R22W				
Landform (hillslope, terrace, etc.): Swale						
Slope (%): 0 Lat: 39.978951	ـ	.ong:82	2.954778		Datum: WGS 84	
Soil Map Unit Name: BfB - Bennington-Urban land co	omplex, (0 to 6 pe	ercent slo	pes NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for this t	time of yea	r? Yes	✓ No_	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology sig	nificantly d	isturbed?	Are "	Normal Circumstances" p	present? Yes No	
Are Vegetation, Soil, or Hydrology nat						
SUMMARY OF FINDINGS – Attach site map sl						
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes No			ne Sampled			
Wetland Hydrology Present? Yes <u>✓</u> No		with	nin a Wetlan	id? Yes	No	
Remarks:						
PEM wetland between two large spo	oil mou	nds (g	gravel/s	oil).		
VEGETATION – Use scientific names of plants.						
00 ft	Absolute % Cover		t Indicator	Dominance Test work		
1				Number of Dominant Sp That Are OBL, FACW, of		
2						
3				Total Number of Domini Species Across All Stra	•	
4				Percent of Dominant Sp	pacies	
5				That Are OBL, FACW, of		
Sapling/Shrub Stratum (Plot size: 15 ft r)	=	Total Co	ver	Prevalence Index worl	ksheet:	
	10	•	FAC	Total % Cover of:		
2.				OBL species 100	x 1 = 100	
3				FACW species 0	x 2 = <u>0</u>	
4					x 3 = <u>30</u>	
5					x 4 = 0	
Herb Stratum (Plot size: 5 ft r)	10=	Total Co	ver		x = 0	
1. Typha angustifolia	85	~	OBL	Column Totals: 110	(A) <u>130</u> (B)	
	15		OBL	Prevalence Index	= B/A = 1.18	
3				Hydrophytic Vegetation		
4				1 - Rapid Test for H	Hydrophytic Vegetation	
5				2 - Dominance Tes		
6				✓ 3 - Prevalence Inde		
7				4 - Morphological A	Adaptations ¹ (Provide supporting s or on a separate sheet)	
8					phytic Vegetation ¹ (Explain)	
9						
10	100 =	Total Co			I and wetland hydrology must	
Woody Vine Stratum (Plot size: 30 ft r)		- Total Co	vei	be present, unless distu	irbed or problematic.	
1				Hydrophytic		
2				Vegetation Present? Yes	s No	
Demonto: (Include photo numbers have as a constant of		Total Co	ver	160		
Remarks: (Include photo numbers here or on a separate sh	leet.)					
Hydrophytic vegetation is present.						

SOIL Sampling Point: 1-A

Profile Des	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence of in	dicators.)
Depth	Matrix			x Feature			_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc²	Texture	Remarks
0-4	10YR 4/2	_ <u>95</u>	10YR 5/6	_ <u>5</u>	_ <u>C</u>	<u>PL</u>	Silt Loam	
-								
								_
<u> </u>								
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for P	roblematic Hydric Soils³:
Histoso	I (A1)		Sandy	Gleyed Ma	atrix (S4)		Coast Prairi	e Redox (A16)
I —	pipedon (A2)			Redox (S			Dark Surfac	
ı —	istic (A3)			d Matrix (,			nese Masses (F12)
	en Sulfide (A4)			-	neral (F1)			w Dark Surface (TF12)
ı —	d Layers (A5) uck (A10)			Gleyed M d Matrix (Other (Expla	ain in Remarks)
_	ed Below Dark Surfa	ce (A11)		Dark Surf				
	ark Surface (A12)	00 (/ 1.1)	_		urface (F7)	³ Indicators of hy	drophytic vegetation and
_	Mucky Mineral (S1)			Depression	,	,		rology must be present,
5 cm M	ucky Peat or Peat (S	S3)					unless distu	rbed or problematic.
I	Layer (if observed):						
Туре: _Н	ardpan/Rock		_				Hudria Cail Dras	ent? Yes No
Depth (in	iches): <u>4</u>		_				Hydric Soil Pres	ent? Yes No
Remarks:							<u> </u>	
Hydric	soils are pre	cont						
riyunc	solis are pre	SCIII.						
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one is require	d; check all that ap	oply)			Secondary Inc	dicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Leav	res (B9)		Surface S	Soil Cracks (B6)
High W	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage	Patterns (B10)
Saturati	ion (A3)		True Aqua	atic Plants	(B14)		Dry-Seas	on Water Table (C2)
Water N	∕larks (B1)		Hydrogen	Sulfide O	dor (C1)			Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized I	Rhizosphe	eres on Liv	ing Roots	(C3) Z Saturation	n Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Reduc	ed Iron (C	4)	Stunted o	r Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C	6) 👱 Geomorp	hic Position (D2)
Iron De	posits (B5)		Thin Muck	Surface	(C7)		FAC-Neu	tral Test (D5)
ı —	ion Visible on Aerial				. ,			
Sparsel	y Vegetated Conca	/e Surface (B	B) Other (Ex	olain in Re	emarks)			
Field Obser								
Surface Wa			o Depth (in					
Water Table	Present?	Yes N	o Depth (in	ches):				
Saturation F		Yes N	o Depth (in	ches):		Wetl	land Hydrology Pre	sent? Yes No
	pillary fringe) corded Data (strear	m dalide mon	itoring well aerial	nhotos n	revious in	enections)	if available:	
Describe Ne	colded Data (Streat	ii gauge, iiioii	ittoring well, aeriai	priotos, p	ievious iris	spections),	ii available.	
Remarks:								
Hydrold	gy indicator	s are pr	esent.					

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Drew Station and T-Line	r: Franklin	County	Sampling Date: 2024-07-16		
Applicant/Owner: AEP		State: Ohio	Sampling Point: 1-A UPL		
Investigator(s): E. Wilson	s	Section, To	wnship, Rar	nge: S02 T5N R22W	
				(concave, convex, none):	
Slope (%): 0 Lat: 39.97895	L	.ong:82	.954698		Datum: WGS 84
Soil Map Unit Name: BfB - Bennington-Urban lan	d complex, (0 to 6 pe	ercent slo	pes NWI classific	ation:
Are climatic / hydrologic conditions on the site typical for	this time of yea	r? Yes	✓ No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	_ significantly d	listurbed?	Are "	Normal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally prob	lematic?	(If ne	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing :	samplin	g point lo	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No				
Hydric Soil Present? Yes			e Sampled		
Wetland Hydrology Present? Yes	No	with	iin a Wetlan	id? Yes	No
Remarks:					
Upland sample point for wetland 1-A	. Sample v	was tal	cen in up	oland area betwe	en two mounds.
VECETATION Has significant for the second of	4-				
VEGETATION – Use scientific names of plan		Daminant	Indicator	Daminana Taatuunk	a boots
Tree Stratum (Plot size:30 ft r)	Absolute % Cover		Indicator Status	Dominance Test work	
1				That Are OBL, FACW, of	
2				Total Number of Domin	ant
3				Species Across All Stra	4
4				Percent of Dominant Sp	pecies
5				That Are OBL, FACW, o	
Sapling/Shrub Stratum (Plot size: 15 ft r)	=	= Total Co	ver	Prevalence Index worl	ksheet:
1				Total % Cover of:	Multiply by:
2.				OBL species 0	x 1 = <u>0</u>
3				· —	x 2 = <u>0</u>
4					x 3 = <u>30</u>
5					x 4 = <u>360</u>
Herb Stratum (Plot size: 5 ft r)	=	= Total Co	ver	UPL species 0	x = 0
1 Solidago canadensis	65	~	FACU	Column Totals: 100	(A) <u>390</u> (B)
2. Dipsacus fullonum	15		FACU	Prevalence Index	= B/A = 3.90
3. Erigeron annuus	10		FACU	Hydrophytic Vegetation	on Indicators:
4. Populus deltoides	10		FAC	1 - Rapid Test for H	Hydrophytic Vegetation
5				2 - Dominance Tes	
6				3 - Prevalence Inde	
7				data in Remarks	Adaptations ¹ (Provide supporting s or on a separate sheet)
8				1	phytic Vegetation ¹ (Explain)
9					
10	100	= Total Co	wer		l and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		Total oo	•01	be present, unless distu	irbed or problematic.
1				Hydrophytic	
2				Vegetation Present? Yes	s No
Pomorko: (Includo abete numbers have a service)		= Total Co	ver	160	
Remarks: (Include photo numbers here or on a separat	,				
No hydrophytic vegetation preser	nt.				

SOIL Sampling Point: 1-A UPL

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			ox Feature		. 2		
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks
0-4	10YR 4/3	_ <u>100</u>					Silt Loam	
-								
-								
_								_
<u> </u>								
	oncentration, D=De	pletion, RM=R	Reduced Matrix, M	1S=Masked	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							Problematic Hydric Soils ³ :
Histoso	` '			Gleyed Ma			_	irie Redox (A16)
I —	pipedon (A2)			Redox (S5			Dark Surfa	• •
ı —	listic (A3) en Sulfide (A4)			ed Matrix (S Mucky Mir	,			anese Masses (F12) ow Dark Surface (TF12)
1 — , ,	d Layers (A5)			Gleyed Ma				plain in Remarks)
	uck (A10)			ed Matrix (, ,		00. (2.4)	Jan III Tanana,
Deplete	d Below Dark Surfac	ce (A11)	Redox	Dark Surfa	ace (F6)			
Thick D	ark Surface (A12)		Deplet	ed Dark Su	ırface (F7))		hydrophytic vegetation and
ı —	Mucky Mineral (S1)		Redox	Depressio	ns (F8)		,	drology must be present,
	ucky Peat or Peat (S	-					unless dist	turbed or problematic.
I	Layer (if observed)):						
	ardpan/Rock		_				Hydric Soil Pre	esent? Yes No
	iches): 4							
Remarks:								
No hyd	ric soils pres	sent.						
1	·							
HYDROLO)GY							
	drology Indicators	•						
1	cators (minimum of		d: check all that a	nnly)			Secondary I	ndicators (minimum of two required)
	Water (A1)	orro to roquiro		ained Leav	es (R9)			Soil Cracks (B6)
_	ater Table (A2)			auna (B13				e Patterns (B10)
l —	ion (A3)			atic Plants				ason Water Table (C2)
ı —	//arks (B1)			Sulfide O	. ,		— '	n Burrows (C8)
ı —	nt Deposits (B2)			Rhizosphe		ing Roots		on Visible on Aerial Imagery (C9)
	posits (B3)			of Reduce		-		or Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Ir	on Reducti	on in Tille	d Soils (C	Geomo	rphic Position (D2)
Iron De	posits (B5)		Thin Muc	k Surface ((C7)		FAC-Ne	eutral Test (D5)
Inundat	ion Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)			
Sparsel	y Vegetated Concav	e Surface (B8	B) Other (E)	oplain in Re	emarks)			
Field Obser	rvations:							
Surface Wat	ter Present?	Yes No	Depth (ii	nches):		_		
Water Table	Present?	Yes No	Depth (ii	nches):		_		
Saturation F	Present?	Yes No	Depth (ii	nches):		Wetl	and Hydrology Pr	resent? Yes No
	pillary fringe)							
Describe Re	ecorded Data (strear	n gauge, mon	itoring well, aerial	priotos, pr	evious ins	spections),	ii available.	
Remarks:								
No byd	cology indica	tore pro	cont					
ino riyar	rology indica	itors bre	sociit.					
I								

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Drew Station and T-Line	(City/County: Franklin County Sampling Date: 2024-07					
		State: Ohio Sampling Point: 1-SP-001					
		Section, Township, Range: S02 T5N R22W					
		Local relief (concave, convex, none): None					
				, , ,		4	
Soil Map Unit Name: BfB - Bennington-Urban land c							
Are climatic / hydrologic conditions on the site typical for this					·		
Are Vegetation, Soil, or Hydrology signature.						No	
Are Vegetation, Soil, or Hydrology na				eded, explain any answer			
SUMMARY OF FINDINGS – Attach site map s						atures, etc.	
Hydrophytic Vegetation Present? Yes No	·						
Hydric Soil Present? Yes No			e Sampled		/		
Wetland Hydrology Present? Yes No	·	with	in a Wetlan	id? Yes	No	-	
Remarks:							
Representative upland sample point to characteruts. Clusters of willow saplings are present on			_	=	ttered spoil p	iles and tire	
VEGETATION – Use scientific names of plants.							
	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
<u>Tree Stratum</u> (Plot size:30 ft r) 1		Species?	Status	Number of Dominant Sp That Are OBL, FACW, o		(A)	
2				Total Number of Domina	ant		
3				Species Across All Strat	^	(B)	
4				Percent of Dominant Sp	pecies		
5				That Are OBL, FACW, o		(A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Cov	er	Prevalence Index work	ksheet:		
1. Salix nigra	5	~	OBL	Total % Cover of:		ly by:	
2.				OBL species 45	x 1 = 45		
3.				FACW species 0	x 2 = <u>0</u>		
4				FAC species 25			
5					× 4 = <u>140</u>	<u> </u>	
E 44 v	5	= Total Cov	er		x 5 = <u>0</u>		
Herb Stratum (Plot size: 5 ft r) Salix nigra	40	V	OBL	Column Totals: 105	(A) <u>260</u>	0(B)	
Trifolium pratense	20		FACU	Prevalence Index	= B/A = 2.47		
3. Erigeron annuus	15		FACU	Hydrophytic Vegetatio			
4. Setaria pumila	15		FAC	1 - Rapid Test for H	lydrophytic Veget	ation	
5. Rumex crispus	10		FAC	✓ 2 - Dominance Test	t is >50%		
6				3 - Prevalence Inde	x is ≤3.0 ¹		
7				4 - Morphological A			
8					or on a separate	· '	
9				Problematic Hydrop	onytic vegetation	(Explain)	
10				Indicators of hydric soil	and wetland hyd	rology must	
Woody Vine Stratum (Plot size: 30 ft r	100	= Total Cov	er	be present, unless distu			
1				Hydrophytic			
2				Vegetation Present? Yes	s No		
Demontos (Inglisto photo purchase have as a second state		= Total Cov	er	100			
Remarks: (Include photo numbers here or on a separate si	neet.)						
Hydrophytic vegetation is present.							

SOIL Sampling Point: 1-SP-001

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirn	n the absence of in	ndicators.)					
Depth	Matrix			ox Feature									
(inches)	Color (moist)		Color (moist)	_ <u> </u>	_Type ¹ _	_Loc ²	Texture	Remarks					
0-5	10YR 4/4	100					Silt Loam						
-													
-													
-													
¹ Type: C=C	oncentration, D=Dep	eletion. RM=Re	educed Matrix. M	- ——— IS=Masked	Sand Gra	ains.	² Location: PL	_=Pore Lining, M=Matrix.					
Hydric Soil		,	,					Problematic Hydric Soils ³ :					
Histoso	I (A1)		Sandy	Gleyed Ma	atrix (S4)		Coast Prair	rie Redox (A16)					
Histic E	pipedon (A2)			Redox (S5			Dark Surface (S7)						
Black H	istic (A3)		Strippe	d Matrix (S	66)		Iron-Manga	n-Manganese Masses (F12)					
	en Sulfide (A4)			Mucky Mir			Very Shallow Dark Surface (TF12)						
I	d Layers (A5)			Gleyed Ma			Other (Explain in Remarks)						
_	uck (A10)			ed Matrix (
	d Below Dark Surfac	e (A11)	_	Dark Surfa			3						
_	ark Surface (A12) Mucky Mineral (S1)			ed Dark Su Depressio	, ,)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,						
	ucky Peat or Peat (S	3)	Nedox	Depressio	115 (1-0)		unless disturbed or problematic.						
	Layer (if observed)						dilicos disc	arbed of problematic.					
l	ardpan/Rock												
	ches): 5		_				Hydric Soil Present? Yes No						
Remarks:	C103)												
	ric soils pres												
HYDROLC	GY												
Wetland Hy	drology Indicators:												
Primary Indi	cators (minimum of o	ne is required	; check all that a	pply)			Secondary Ir	ndicators (minimum of two required)					
Surface	Water (A1)		Water-Sta	ained Leav	es (B9)		Surface Soil Cracks (B6)						
High Wa	ater Table (A2)		Aquatic F	auna (B13)		Drainage Patterns (B10)						
Saturati	Saturation (A3) True Aquatic Plants (B14)						Dry-Season Water Table (C2)						
Water N	Water Marks (B1) Hydrogen Sulfide Odor (C1)							Crayfish Burrows (C8)					
Sedime	nt Deposits (B2)		Oxidized	Rhizosphe	res on Livi	ing Roots	ots (C3) <a>C3 Saturation Visible on Aerial Imagery (C9)						
Drift De	Drift Deposits (B3) Presence of Reduced Iron (C4)							Stunted or Stressed Plants (D1)					
Algal M	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6							(C6) Geomorphic Position (D2)					
Iron De	Iron Deposits (B5) Thin Muck Surface (C7)							utral Test (D5)					
Inundat	ion Visible on Aerial	lmagery (B7)	Gauge or	Well Data	(D9)								
Sparsel	y Vegetated Concav	e Surface (B8)	Other (Ex	plain in Re	emarks)								
Field Obser													
Surface Wat	ter Present? Y	es No	Depth (ir	nches):		_							
Water Table Present? Yes No Depth (inches):													
							/etland Hydrology Present? Yes No						
	corded Data (stream	gauge, monito	oring well, aerial	photos, pr	evious ins	pections),	if available:						
Remarks:													
No hydr	ology indica	tore nree	sent										
To Hydi	ology illuica	tors pres	Joint.										

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Drew Station and T-Line	c	City/Co	ounty:	<u>Franklin</u>	County Sampling Date: 2024-07-16				
Applicant/Owner: AEP					State: Ohio Sampling Point: 1-SP-002				
Investigator(s): E. Wilson	{	Section, Township, Range: S02 T5N R22W							
					(concave, convex, none): None				
Slope (%): 0 Lat: 39.978223	ι	ong:	-82.	956055	Datum: WGS 84				
Soil Map Unit Name: BfB - Bennington-Urban land	complex,	0 to	6 pe	rcent slo	pes NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)									
Are Vegetation, Soil, or Hydrology significantly disturbed?									
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)									
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	point lo	ocations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes N	lo								
Hydric Soil Present? Yes N	lo			e Sampled					
Wetland Hydrology Present? Yes N	o		withi	n a Wetlan	nd? Yes No				
Remarks:									
Representative upland sample point to charact	erize the	area.	San	ıple was	taken within open/maintained yard.				
VEGETATION – Use scientific names of plants.									
Tree Stratum (Plot size:30 ft r)	Absolute % Cover			Indicator Status	Dominance Test worksheet:				
1					Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)				
2					Total Number of Dominant				
3					Species Across All Strata: 1 (B)				
4					Percent of Dominant Species				
5					That Are OBL, FACW, or FAC: 100.00 (A/B)				
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Tota	ii Cov	er	Prevalence Index worksheet:				
1					Total % Cover of: Multiply by:				
2					OBL species $0 \times 1 = 0$				
3					FACW species $0 \times 2 = 0$				
4	- ——				FAC species 75 x 3 = 225				
5					FACU species 25 $x 4 = 100$ UPL species 0 $x 5 = 0$				
Herb Stratum (Plot size: 5 ft r	——:	_ = Total Cover			100 005				
1. Poa pratensis	75			FAC	Column Totals: 100 (A) 325 (B)				
2. Trifolium repens	15			FACU	Prevalence Index = B/A = 3.25				
3. Oxalis stricta	5			FACU_	Hydrophytic Vegetation Indicators:				
4. Trifolium pratense	5			FACU_	1 - Rapid Test for Hydrophytic Vegetation				
5					2 - Dominance Test is >50%				
6	- —				3 - Prevalence Index is ≤3.0 ¹				
7					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
8					Problematic Hydrophytic Vegetation ¹ (Explain)				
9									
10	400	 = Tota	L Cov		¹ Indicators of hydric soil and wetland hydrology must				
Woody Vine Stratum (Plot size: 30 ft r)		1010			be present, unless disturbed or problematic.				
1					Hydrophytic				
2					Vegetation Present? Yes No				
Demontor (Include phate provide phate provide phate provide phate		= Tota	l Cov	er	100				
Remarks: (Include photo numbers here or on a separate s	,								
Hydrophytic vegetation is present.									

SOIL Sampling Point: 1-SP-002

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ir	ndicators.)				
Depth	Matrix		Red	ox Feature	s							
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ² _	Texture	Remarks				
0-5	10YR 4/4	_ <u>100</u> _					Silt Loam					
-												
												
1Type: C=C	oncentration, D=Dep	oletion RM=R	educed Matrix M	S=Masked	Sand Gra	aine	2l ocation: Pl	=Pore Lining, M=Matrix.				
Hydric Soil		Dietion, Nivi–IN	educed Matrix, IV	O-Wasket	oand Ore	airio.		Problematic Hydric Soils ³ :				
Histoso			Sandy	Gleyed Ma	trix (S4)			ie Redox (A16)				
ı —	pipedon (A2)			Redox (S5			Dark Surfac	. ,				
I —	istic (A3)			d Matrix (S	-		Iron-Manganese Masses (F12)					
Hydroge	en Sulfide (A4)		Loamy	Mucky Mir	neral (F1)		Very Shallow Dark Surface (TF12)					
Stratifie	d Layers (A5)		Loamy	Gleyed Ma	atrix (F2)		Other (Explain in Remarks)					
ı —	uck (A10)			ed Matrix (I								
ı —	d Below Dark Surface	ce (A11)	_	Dark Surfa			3					
_	ark Surface (A12)			ed Dark Su)		ydrophytic vegetation and				
	Mucky Mineral (S1) ucky Peat or Peat (S	:3)	Redox	Depression	ns (F8)		-	drology must be present, urbed or problematic.				
	Layer (if observed)	-					unless disti	arbed or problematic.				
ı	ardpan	•										
	iches): 5		_				Hydric Soil Pres	sent? Yes No				
Remarks:	icries). <u>U</u>											
	ric soils pres	cent										
Nonya	ric soils pres	bent.										
HYDROLO	GY											
	drology Indicators	:										
1	cators (minimum of		d: check all that a	(vlaa			Secondary In	dicators (minimum of two required)				
	Water (A1)			ained Leav	es (B9)		Surface Soil Cracks (B6)					
_	ater Table (A2)				, ,		Orange Patterns (B10)					
ı —	High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) True Aquatic Plants (B14)						Dry-Season Water Table (C2)					
Vater Marks (B1) Hydrogen Sulfide Odor (C1)							Crayfish Burrows (C8)					
								on Visible on Aerial Imagery (C9)				
Sediment Deposits (B2)												
ı —	at or Crust (B4)					•		phic Position (D2)				
ı —	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (Ci Iron Deposits (B5) Thin Muck Surface (C7)							utral Test (D5)				
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)												
ı —	y Vegetated Concav		_ •		` '							
Field Obser												
l		res No	Depth (in	nches):								
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):												
						Netland Hydrology Present? Yes No						
	Saturation Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:												
No hyd	ology indica	tore pro	sent									
140 Hydi	ology illulo	itora pres	JOIIL.									
I												

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Drew Station and T-Line		City/County:	Franklin	County	Sampling Date: 2024-07-16					
Applicant/Owner: AEP				State: Ohio	Sampling Point: 1-SP-003					
Investigator(s): E. Wilson		Section, Township, Range: S02 T5N R22W								
		Local relief (concave, convex, none): Convex								
Slope (%): 1 Lat: 39.981786	ι	_ong:82.	955865		Datum: WGS	84				
Soil Map Unit Name: BfB - Bennington-Urban land o	omplex,	0 to 6 pe	rcent slo	pes NWI classific	ation:					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)										
Are Vegetation, Soil, or Hydrology significantly disturbed?										
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)										
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes No										
Hydric Soil Present? Yes No			e Sampled		V					
Wetland Hydrology Present? Yes No	·	withi	n a Wetlan	d? Yes	No					
Remarks:	orizo tha	araa Can	anla was	takan within awala t	that cita hatu	voon road				
Representative upland sample point to characte and maintained yard.	enze me	area. San	iipie was	taken within swale t	nat sits betw	veenroad				
VEGETATION – Use scientific names of plants.										
20 ft :-	Absolute	Dominant		Dominance Test work	sheet:					
Tree Stratum (Plot size: 30 ft r) 1.	% Cover	Species?	_Status_	Number of Dominant Sp That Are OBL, FACW, o		(A)				
2				Total Number of Domina						
3				Species Across All Stra	ta: <u>3</u>	(B)				
4. 5.				Percent of Dominant Sp	ecies	2 (4/D)				
		= Total Cov	er	That Are OBL, FACW, o)r FAC: 33.3	3 (A/B)				
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index work						
1				Total % Cover of: OBL species 0		ply by:				
2					x 1 = 0					
3				_	x = 20 x = 3					
4				FAC species 0 FACU species 90						
5		 = Total Cov		UPL species 5	$\times 5 = \frac{1}{25}$					
Herb Stratum (Plot size: 5 ft r)		- Total Cov		Column Totals: 105)5 (B)				
1. Cirsium arvense	55		FACU			(5)				
2. Phytolacca americana	25		FACU_	Prevalence Index						
3. Asclepias syriaca	10		FACU_	Hydrophytic Vegetation						
4. Dipsacus laciniatus	5		UPL	1 - Rapid Test for H		etation				
5				2 - Dominance Tes						
6				3 - Prevalence Inde						
7				4 - Morphological A data in Remarks						
8				Problematic Hydrop	ohytic Vegetation	n¹ (Explain)				
9										
10	95	 = Total Cov		¹ Indicators of hydric soil						
Woody Vine Stratum (Plot size: 30 ft r)		- Total Cov	eı	be present, unless distu	rbed or problem	natic.				
1. Vitis riparia	10		FACW	Hydrophytic						
2				Vegetation	s No_	·				
		= Total Cov	er	Present? Yes	s No_					
Remarks: (Include photo numbers here or on a separate s	heet.)									
Hydrophytic vegetation is present.										

Soll Sampling Point: 1-SP-003

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			ox Feature		. 2		
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-5	10YR 4/4	_ <u>100</u>					Silt Loam	
-								
-								
_								
<u> </u>								
	oncentration, D=De	pletion, RM=R	Reduced Matrix, M	IS=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							Problematic Hydric Soils ³ :
Histoso	` '			Gleyed Ma			_	rie Redox (A16)
I —	pipedon (A2)			Redox (S5			Dark Surfa	. ,
ı —	listic (A3) en Sulfide (A4)			ed Matrix (S Mucky Mir	,			anese Masses (F12) ow Dark Surface (TF12)
	d Layers (A5)			Gleyed Ma				olain in Remarks)
I —	uck (A10)			ed Matrix (, and the state of
_	d Below Dark Surface	ce (A11)		Dark Surfa				
_	ark Surface (A12)		Deplet	ed Dark Su	ırface (F7))	³ Indicators of h	nydrophytic vegetation and
	Mucky Mineral (S1)		Redox	Depressio	ns (F8)			drology must be present,
	ucky Peat or Peat (S	-					unless dist	turbed or problematic.
I	Layer (if observed)):						
	ardpan		_				Hydric Soil Pre	esent? Yes No
	ches): <u>5</u>							
Remarks:								
No hyd	ric soils pres	sent.						
1	·							
HYDROLO)GY							
	drology Indicators	•						
1	cators (minimum of		d: check all that a	nnly)			Secondary I	ndicators (minimum of two required)
	Water (A1)	orro to roquiro		ained Leav	es (B9)			Soil Cracks (B6)
_	ater Table (A2)			auna (B13	` '			e Patterns (B10)
ı —	ion (A3)			atic Plants				ason Water Table (C2)
ı —	//arks (B1)			Sulfide O	. ,		_ ′	Burrows (C8)
ı —	nt Deposits (B2)			Rhizosphe		ing Roots		on Visible on Aerial Imagery (C9)
	posits (B3)			of Reduce				or Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Ir	on Reducti	on in Tille	d Soils (C	Geomor	rphic Position (D2)
Iron De	posits (B5)		Thin Muc	k Surface ((C7)		FAC-Ne	eutral Test (D5)
Inundat	ion Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)			
Sparsel	y Vegetated Concav	e Surface (B8	B) Other (Ex	plain in Re	marks)			
Field Obser	rvations:							
Surface Wat	ter Present?	Yes No	Depth (ir	nches):		_		
Water Table	Present?	res No	Depth (ir	nches):		_		
Saturation F	Present?	Yes No	Depth (ir	nches):		Wetl	and Hydrology Pr	resent? Yes No
	pillary fringe)							
Describe Re	ecorded Data (stream	n gauge, mon	itoring well, aerial	pnotos, pr	evious ins	spections),	if available:	
Remarks:								
	rology indica	tore pro	cont					
ino nyar	ology indica	itors pre	sent.					
I								

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WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Drew Station and T-Line	0	City/Co	ounty:	Franklin	County 5	Sampling Date: 2024	-07-16
Applicant/Owner: AEP					State: Ohio S	Sampling Point: 1-SP-	-004
Investigator(s): E. Wilson	{	Sectio	n, Tov	vnship, Rar	nge: S02 T5N R22W		
					(concave, convex, none): <u></u>	None	
Slope (%): 0 Lat: 39.978195	ι	ong:	-82.	954893	0	oatum: WGS 84	
Soil Map Unit Name: BfB - Bennington-Urban land	l complex,	0 to	6 pe	rcent slo	pes NWI classificat	ion:	
Are climatic / hydrologic conditions on the site typical for the	nis time of yea	ır? Ye	es	No _	(If no, explain in Rer	narks.)	
Are Vegetation, Soil, or Hydrology	significantly of	disturb	ed?	Are "	Normal Circumstances" pre	esent? Yes N	10
Are Vegetation, Soil, or Hydrology	naturally prob	olema	tic?	(If ne	eded, explain any answers	in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	g point lo	ocations, transects,	important feature	es, etc.
Hydrophytic Vegetation Present? Yes I	No						
Hydric Soil Present? Yes I	No			e Sampled			
Wetland Hydrology Present? Yes I	No		withi	n a Wetlan	d? Yes	No	
Remarks:			C		A - l : Al-:	-i	
Representative upland sample point to charac	terize the	area.	. San	ipie was	taken within open/ma	aintained yard.	
VEGETATION – Use scientific names of plants	S.						
	Absolute	Dom	inant	Indicator	Dominance Test worksh	neet:	
Tree Stratum (Plot size: 30 ft r)	% Cover				Number of Dominant Spe		
1					That Are OBL, FACW, or	FAC: 1	_ (A)
2 3					Total Number of Dominar		(D)
4					Species Across All Strata	: <u>'</u>	_ (B)
5					Percent of Dominant Spe That Are OBL, FACW, or		(A/B)
15 ft r	:	= Tota	al Cov	er			. (/
Sapling/Shrub Stratum (Plot size: 15 ft r)					Prevalence Index works Total % Cover of:		
1 2						x 1 = 0	_
3						x 2 = 0	
4						x 3 = 255	
5					FACU species 15	x 4 = <u>60</u>	_
5 ft r	:	= Tota	al Cov	er	UPL species 0	x 5 = 0	_
Herb Stratum (Plot size: 5 ft r) 1. Poa pratensis	85	v	,	FAC	Column Totals: 100	(A) <u>315</u>	(B)
2 Trifolium repens	15	_		FACU	Prevalence Index =	B/A = 3.15	
3.					Hydrophytic Vegetation	Indicators:	
4					1 - Rapid Test for Hy	drophytic Vegetation	
5					2 - Dominance Test i		
6					3 - Prevalence Index		
7					4 - Morphological Add	aptations' (Provide su _l or on a separate sheet	pporting)
8					Problematic Hydroph		·
9							
10	400	 = Tota	ol Cov		¹ Indicators of hydric soil a		must
Woody Vine Stratum (Plot size: 30 ft r)		- 1018	ai 00v	CI	be present, unless disturb	ped or problematic.	
1					Hydrophytic		
2					Vegetation Present? Yes	✓ No	
Remarks: (Include photo numbers here or on a separate		= Tota	al Cov	er	100,		
, , ,	,						
Hydrophytic vegetation is present	•						

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Soll Sampling Point: 1-SP-004

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ir	ndicators.)
Depth	Matrix		Red	ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ² _	Texture	Remarks
0-5	10YR 4/4	_ <u>100</u> _					Silt Loam	
-								
								
_								
1Type: C=C	oncentration, D=Dep	oletion RM=R	educed Matrix M	S=Masked	Sand Gr	aine	2l ocation: Pl	=Pore Lining, M=Matrix.
Hydric Soil		Dietion, Nivi–IN	educed Matrix, IV	O-Wasket	oand Or	airio.		Problematic Hydric Soils ³ :
Histoso			Sandy	Gleyed Ma	atrix (S4)			ie Redox (A16)
ı —	pipedon (A2)			Redox (S5			Dark Surfac	, ,
I —	istic (A3)			d Matrix (S				inese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mir	neral (F1)		Very Shallo	w Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy	Gleyed Ma	atrix (F2)		Other (Expl	ain in Remarks)
ı —	uck (A10)			ed Matrix (I				
ı —	d Below Dark Surface	ce (A11)	_	Dark Surfa			3	
_	ark Surface (A12)			ed Dark Su	, ,)		ydrophytic vegetation and
	Mucky Mineral (S1) ucky Peat or Peat (S	:3)	Redox	Depression	ns (F8)		-	drology must be present, urbed or problematic.
	Layer (if observed)	-					unless disti	arbed or problematic.
I	ardpan	•						
	iches): 5		_				Hydric Soil Pres	sent? Yes No
Remarks:	icries). <u>U</u>							
	ric soils pres	ent						
Nonya	ric solis pres	ent.						
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one is required	d: check all that a	(vlaa			Secondary In	dicators (minimum of two required)
	Water (A1)			ained Leav	es (B9)			Soil Cracks (B6)
_	ater Table (A2)			auna (B13	, ,			e Patterns (B10)
ı —	ion (A3)			atic Plants	•		_ •	son Water Table (C2)
ı —	∕larks (B1)		_ ·	Sulfide O	` '		_ ′	Burrows (C8)
1	nt Deposits (B2)			Rhizosphe		ina Roots		on Visible on Aerial Imagery (C9)
	posits (B3)		_	of Reduce		•	· / —	or Stressed Plants (D1)
ı —	at or Crust (B4)		Recent In		•	•		phic Position (D2)
ı —	posits (B5)		Thin Muc				. —	utral Test (D5)
	ion Visible on Aerial	Imagery (B7)	Gauge or	,				
ı —	y Vegetated Concav		_ •		, ,			
Field Obser								
l		res No	Depth (ir	nches):				
Water Table								
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No V								
	pillary fringe)	140	Deptii (ii	ici ies)		_ ••••	and riyurology Fre	
	ecorded Data (stream	n gauge, monit	toring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:								
No hyd	ology indica	tore pro	sent					
140 Hydi	ology illulo	itora pres	JOIIL.					
I								

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Background Information

Name: Ethan Wilson

Date: 7/16/2024

Affiliation: ESI

4200 Lynn Road, Suite 205, Ravenna, OH 44266

Phone Number: (724) 591-0686

e-mail address: ewilson@envsi.com

Name of Wetland: 1-A

Vegetation Communit(ies): Emergent

HGM Class(es): PEM

Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.

See Appendix A

Name of Wetland:		
Wetland Size (acres, hectares):		0.010
Sketch: Include north arrow, relationship with other surface waters, vegetation zon	es, etc.	0.010
, ,	•	
O A I' A		
See Appendix A		
• •		
Comments, Narrative Discussion, Justification of Category Changes:		
D 1 / A		
N/A		
Final score: 11	Category:	Cat 1

Scoring Boundary Worksheet

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

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

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

Narrative Rating

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

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

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

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum	-	Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		_
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

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

Poor (1)
4c. Habitat alteration. Score one or double check and average.

4c. Habitat alteration. Score one or d	ouble check and average.	A STATE OF THE STA
None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery	Check all disturbances observed mowing grazing clearcutting selective cutting woody debris removal toxic pollutants	shrub/sapling removal herbaceous/aquatic bed removal sedimentation dredging farming nutrient enrichment

Site: AEP Drew 9	station T-Line Rater	(s): E. w	vilson Date: 7/10/202
subtotal first page			PEM 1-A
O 14 Me	tric 5. Special Wetlar	ıds.	CATI
nax 10 pts. subtotal Chec	k all that apply and score as indicated. Bog (10)		
	Fen (10)		
	Old growth forest (10)		
	Mature forested wetland (5)		V V V V V V V V V V V V V V V V V V V
	Lake Erie coastal/tributary wetland-		
-	Lake Erie coastal/tributary wetland-		ology (5)
-	Lake Plain Sand Prairies (Oak Open Relict Wet Prairies (10)	nings) (10)	
-	Known occurrence state/federal thre	eatened or end	angered species (10)
	Significant migratory songbird/water		
	Category 1 Wetland. See Question		
a III Me	tric 6. Plant commun	ities, int	erspersion, microtopography.
-3 11 111			
ax 20 pts. subtotal 6a. V	Vetland Vegetation Communities.	Vegetation	Community Cover Scale
Score	all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
	Aquatic bed	1	Present and either comprises small part of wetland's
	Emergent		vegetation and is of moderate quality, or comprises a
1 -	Shrub Forest	2	significant part but is of low quality Present and either comprises significant part of wetland's
-	Mudflats	2	vegetation and is of moderate quality or comprises a small
-	Open water		part and is of high quality
	Other	3	Present and comprises significant part, or more, of wetland's
6b. h	orizontal (plan view) Interspersion.		vegetation and is of high quality
Selec	t only one.		The contract of the contract o
	High (5)		escription of Vegetation Quality
,	Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
1	Moderate (3) Moderately low (2)	mod	Native spp are dominant component of the vegetation,
1	Low (D)		although nonnative and/or disturbance tolerant native spp
ľ	None (0)		can also be present, and species diversity moderate to
6c. C	overage of invasive plants. Refer		moderately high, but generally w/o presence of rare
to Tab	ole 1 ORAM long form for list. Add		threatened or endangered spp
or dec	duct points for coverage	high	A predominance of native species, with nonnative spp
	Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually
-5	Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
-	Sparse 5-25% cover (-1)		the presence of rare, threatened, or endangered spp
-	Nearly absent <5% cover (0) Absent (1)	Mudflat and	d Open Water Class Quality
6d M	ficrotopography.	0	Absent <0.1ha (0.247 acres)
	all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
	O Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
	Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more
-	Standing dead >25cm (10in) dbh		
	O Amphibian breeding pools	Microtopoo	raphy Cover Scale

11

. End of Quantitative Rating. Complete Categorization Worksheets.

Present very small amounts or if more common

Present in moderate amounts, but not of highest quality or in small amounts of highest quality
Present in moderate or greater amounts

of marginal quality

and of highest quality

ORAM Summary Worksheet

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

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM	
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM	
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.	
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM	
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.	
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).	
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.	

Final Category					
tegory 2	Category 3				
a	ategory 2				

End of Ohio Rapid Assessment Method for Wetlands.