

Site: AEP West Moulton Station	Rater(s): BL (AECOM)	Date: 12/23/2019
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**Metric 5. Special Wetlands.**

Check all that apply and score as indicated.

- Bog (10)
- Fen (10)
- Old growth forest (10)
- Mature forested wetland (5)

Imagine it.
Delivered.**Wetland Delineation and Stream Assessment Report****APPENDIX D PHOTOGRAPHIC LOG**


Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Wetland 01	
Date: December 23, 2019	
Description: PEM Category 1 Facing North	

Wetland 01	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: PEM Category 1 Facing East	
Wetland 01	
Date: December 23, 2019	
Description: PEM Category 1 Facing South	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Wetland 01	
Date: December 23, 2019	
Description: PEM Category 1 Facing West	
Wetland 01	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: PEM Category 1 Soil Pit	
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Upland 01	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description:

Facing North



Upland 01

Date:

December 23, 2019

Description:

Facing East



**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Upland 01	
Date: December 23, 2019	
Description: Facing South	

Upland 01	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description:


Facing West

**Upland 01****Date:**

December 23, 2019

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: Soil Pit	
Wetland 02a	
Date: December 23, 2019	
Description: PEM Category 1 Facing North	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Wetland 02a	
Date: December 23, 2019	
Description: PEM Category 1 Facing East	
Wetland 02a	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: PEM Category 1 Facing South	
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Wetland 02a	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: PEM Category 1 Facing West	
Wetland 02a	
Date: December 23, 2019	
Description: PEM Category 1 Soil Pit	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Wetland 02b	
Date: December 23, 2019	
Description: PSS Category 1 Facing North	
Wetland 02b	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: PSS Category 1 Facing East	
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Wetland 02b	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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<p>Description:</p> <p>PSS</p> <p>Category 1</p> <p>Facing South</p>	
<p>Wetland 02b</p>	
<p>Date:</p>	
<p>December 23, 2019</p> <p>Description:</p> <p>PSS</p> <p>Category 1</p> <p>Facing West</p>	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Wetland 02b	
Date: December 23, 2019	
Description: PSS Category 1 Soil Pit	

Upland 02	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: Facing North	
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Upland 02	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: Facing East	
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Upland 02	
Date: December 23, 2019	
Description: Facing South	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Upland 02	
Date: December 23, 2019	
Description: Facing West	

Upland 02	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description:

Soil Pit

**Wetland 03a****Date:**

December 23, 2019

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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<p>Description:</p> <p>PEM</p> <p>Category 1</p> <p>Facing North</p>	
<p>Wetland 03a</p> <p>Date: December 23, 2019</p> <p>Description:</p> <p>PEM</p> <p>Category 1</p> <p>Facing East</p>	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Wetland 03a	
Date: December 23, 2019	
Description: PEM Category 1 Facing South	
Wetland 03a	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: PEM Category 1 Facing West	
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Wetland 03a	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: PEM Category 1 Soil Pit	
Upland 03 Date: December 23, 2019 Description: Facing North	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Upland 03	
Date: December 23, 2019	
Description: Facing East	
Upland 03	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: Facing South	
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Upland 03	
Date: December 23, 2019	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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<p>Description:</p> <p>Facing West</p>	
<p>Upland 03</p>	
<p>Date:</p> <p>December 23, 2019</p>	
<p>Description:</p> <p>Soil Pit</p>	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Upland 04	
Date: December 23, 2019	
Description: Facing North	
Upland 04	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description:

Facing East



Upland 04


Date:

December 23, 2019

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: Facing South	 <p>A photograph showing a field with patches of snow and dry, brown grass. A survey marker with a blue and pink ribbon is visible in the foreground. The background shows a line of trees and a utility pole. A date stamp '2019 12 23' is visible in the bottom right corner.</p>
Upland 04 Date: December 23, 2019 Description: Facing West	 <p>A photograph showing a field with patches of snow and dry, brown grass. A survey marker with a blue and pink ribbon is visible in the foreground. In the background, there are industrial buildings and a utility pole. A date stamp '2019 12 23' is visible in the bottom right corner.</p>

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Upland 04	
Date: December 23, 2019	
Description: Soil Pit	
Stream 01	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description:

Intermittent

Modified Small
Drainage Warmwater



Facing Upstream

**Stream 01****Date:**

December 23, 2019

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: Intermittent Modified Small Drainage Warmwater Facing Downstream	
Stream 01	
Date: December 23, 2019	
Description: Intermittent Modified Small Drainage Warmwater Substrate	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Date: December 23, 2019	
Description: UDF and old field vegetative community Facing North	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
----------------------------	---	--------------------------------

Description:UDF and old field
vegetative community



Facing East

**Date:**

December 23, 2019

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description: UDF and old field vegetative community Facing South	 A wide-angle photograph showing a field of tall, dry, brown grasses and weeds. Patches of snow are scattered across the ground. In the background, there is a line of bare trees and a utility pole. The sky is overcast. A timestamp '2019-12-23' is visible in the bottom right corner.
Date: December 23, 2019	 A close-up photograph of the same field, showing a path or stream bed covered in snow and ice, surrounded by tall, dry grasses. Utility poles are visible in the background. A timestamp '2019-12-23' is visible in the bottom right corner.
Description: UDF and old field vegetative community Facing West	

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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<p>Date: December 23, 2019</p> <p>Description: Roadside ditch UDF and landscaped area/urban vegetative community Facing North</p>	
<p>Date: December 23, 2019</p>	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
----------------------------	---	--------------------------------

Description:

Roadside ditch UDF
and landscaped
area/urban vegetative
community



Facing South

**Date:**

December 23, 2019

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
----------------------------	---	--------------------------------

Description: Shrub-scrub vegetative community Facing North	
Date: December 23, 2019	
Description: Upland woodland vegetative community Facing South	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
----------------------------	---	--------------------------------

Date: December 23, 2019	
Description: Agricultural vegetative community Facing East	
Date: December 23, 2019	

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description:

Urban vegetative
community; existing
West Moulton Station

Facing West

**Date:**

December 23, 2019

**WETLANDS, STREAMS, UDFs, AND
VEGETATIVE COMMUNITIES**

Client Name: AEP	Site Location: West Moulton Station Expansion Project	Project No. 60567952
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Description:

Old field and urban
vegetative community;
existing gravel drive
and cellular tower

Facing West



APPENDIX E AGENCY CORRESPONDENCE

Tucker, Jason

From: susan_zimmermann@fws.gov on behalf of Ohio, FW3 <ohio@fws.gov>
Sent: Friday, March 09, 2018 10:35 AM
To: Tucker, Jason
Subject: Wapakoneta Transmission Infrastructures (Several 138 kV Stations) in Auglaize Co.



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



TAILS# 03E15000-2018-TA-0902

Dear Mr. Tucker,

We have received your recent correspondence regarding potential impacts to federally listed species in the vicinity of the above referenced project. There are no federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area. We recommend that proposed activities minimize water quality impacts, including fill in streams and wetlands. Best management practices should be utilized to minimize erosion and sedimentation.

FEDERALLY LISTED, PROPOSED, AND CANDIDATE SPECIES COMMENTS: Due to the project type, size, location, and the proposed implementation of seasonal tree cutting (clearing of trees ≥ 3 inches diameter at breast height between October 1 and March 31) to avoid impacts to Indiana bats and northern long-eared bats, we do not anticipate adverse effects to any federally endangered, threatened, proposed or candidate species. Should the project design change, or during the term of this action, 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, consultation with the U.S. Fish and Wildlife Service (Service) should be initiated to assess any potential impacts.

If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), no tree clearing should occur on any portion of the project area until consultation under section 7 of the Endangered Species Act (ESA), between the Service and the federal action agency, is completed. We recommend that 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.

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.), ESA, and are consistent with the intent of the National Environmental Policy Act of 1969 and the Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed section 7 consultation document. We recommend that the project be coordinated with the Ohio Department

of Natural Resources due to the potential for the project to affect state listed species and/or state lands. Contact John Kessler, Environmental Services Administrator, at (614) 265-6621 or at john.kessler@dnr.state.oh.us.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Dan Everson".

1

Dan Everson Field
Supervisor



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Office of Real Estate

Paul R. Baldrige, Chief

2045 Morse Road – Bldg. E-2

Columbus, OH 43229

Phone: (614) 265-6649

Fax: (614) 267-4764

March 23, 2018

Jason Tucker
AECOM
525 Vine Street, Suite 1800
Cincinnati, Ohio 45202

Re: 18-409; Wapakoneta Improvements Project

Project: The proposed project includes a new Gristmill Station, a new Gemini Station, a new 138 kV transmission line between Gristmill and Gemini Stations, a new 138 kV transmission line between Gemini and West Moulton Stations, and expanding the West Moulton Station.

Location: The proposed project is located in Pusheta and Washington Townships, Auglaize 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 records at or within a one-mile radius of the project area:

Greater redhorse (*Moxostoma valenciennesi*), State threatened, federal species of concern
Great blue heron rookery

The review was performed on the project area you specified in your request as well as an additional one-mile radius. Records searched date from 1980. This information is provided to inform you of features present within your project area and vicinity. Additional comments on some of the features may be found in pertinent sections below.

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

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

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

The project area east of Dixie Highway and south of Weimert School Road is within the vicinity of records for the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. Presence of the Indiana bat has been established in the area, and therefore additional summer surveys would not constitute presence/absence in the area. The following species of trees have relatively high value as potential Indiana bat roost trees to include: shagbark hickory (*Carya ovata*), shellbark hickory (*Carya laciniosa*), bitternut hickory (*Carya cordiformis*), black ash (*Fraxinus nigra*), green ash (*Fraxinus pennsylvanica*), white ash (*Fraxinus americana*), shingle oak (*Quercus imbricaria*), northern red oak (*Quercus rubra*), slippery elm (*Ulmus rubra*), American elm (*Ulmus americana*), eastern cottonwood (*Populus deltoides*), silver maple (*Acer saccharinum*), sassafras (*Sassafras albidum*), post oak (*Quercus stellata*), and white oak (*Quercus alba*). Indiana bat roost trees consists of trees that include dead and dying trees with exfoliating bark, crevices, or cavities in upland areas or riparian corridors and living trees with exfoliating bark, cavities, or hollow areas formed from broken branches or tops. However, Indiana bats are also dependent on the forest structure surrounding roost trees. If suitable habitat occurs within the project area, the DOW recommends trees be conserved. If suitable habitat occurs within the project area and trees must be cut, the DOW recommends cutting occur between October 1 and March 31.

The remainder of the project area is within the range of the Indiana bat (*Myotis sodalis*). If suitable habitat occurs within the project area and trees must be cut, the DOW recommends cutting occur between October 1 and March 31. If suitable trees must be cut during the summer months, the DOW recommends a net survey be conducted between June 1 and August 15, prior to any cutting. Net surveys should incorporate either nine net nights per square 0.5 kilometer of project area, or four net nights per kilometer for linear projects. If no tree removal is proposed, this project is not likely to impact this species.

The project is within the range of the clubshell (*Pleurobema clava*), a state endangered and federally endangered mussel, and the pondhorn (*Unio merus tetralasmus*), a state threatened mussel. This project must not have an impact on freshwater native mussels at the project site. This applies to both listed and non-listed species. Per the Ohio Mussel Survey Protocol (2016), all Group 2, 3, and 4 streams (Appendix A) require a mussel survey. Per the Ohio Mussel Survey Protocol, Group 1 streams (Appendix A) and unlisted streams with a watershed of 10 square miles or larger above the point of impact should be assessed using the Reconnaissance Survey for Unionid Mussels (Appendix B) to determine if mussels are present. Mussel surveys may be recommended for these streams as well. This is further explained within the Ohio Mussel Survey Protocol. Therefore, if in-water work is planned in any stream that meets any of the above criteria, the DOW recommends the applicant provide information to indicate no mussel impacts will occur. If this is not possible, the DOW recommends a professional malacologist conduct a mussel survey in the project area. If mussels that cannot be avoided are found in the project area, as a last resort, the DOW recommends a professional malacologist collect and relocate the mussels to suitable and similar habitat upstream of the project site. Mussel surveys and any subsequent mussel relocation should be done in accordance with the Ohio Mussel Survey Protocol. The Ohio Mussel Survey Protocol (2018) can be found at:

<http://wildlife.ohiodnr.gov/portals/wildlife/pdfs/licenses%20&%20permits/OH%20Mussel%20Survey%20Protocol.pdf>

The project is within the range of the greater redhorse (*Moxostoma valenciennesi*), a state threatened fish. The DOW recommends no in-water work in perennial streams from April 15 to June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact this or other aquatic species.

The project is within the range of the lark sparrow (*Chondestes grammacus*), a state endangered bird. This sparrow nests in grassland habitats with scattered shrub layers, disturbed open areas, as well as patches of bare soil. These summer residents normally migrate out of Ohio shortly after their young fledge or leave the nest. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 to June 30. If this habitat will not be impacted, the project is not likely to impact this species.

The DOW has a record for a great blue heron rookery within the boundary of the project area. The rookery is located within the large woodlot between the following roads: Washington Pike, Burr Oak Road, Kettlersville Road, and Kohler Road. Nesting great blue herons are protected under the Migratory Bird Treaty Act of 1918. Impacts to great blue heron rookeries can have a significant impact on a local population due to the large number of birds that return each year to the same rookery to nest. Rookeries often include a certain set of characteristics that are not easily found elsewhere. The DOW recommends that construction activity within the rookery be avoided to preserve the rookery. If construction within the rookery cannot be avoided, the DOW recommends at the very least, the rookery be avoided during the nesting season of March 1 through June 31 as to not interfere with nesting birds. In addition, the DOW recommends a 100 yard no activity buffer be maintained around the rookery during the breeding season as to not interfere with nesting birds.

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

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

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

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

ODNR appreciates the opportunity to provide these comments. Please contact John Kessler at (614) 265-6621 if you have questions about these comments or need additional information.

John Kessler
ODNR Office of Real Estate
2045 Morse Road, Building E-2
Columbus, Ohio 43229-6693
John.Kessler@dnr.state.oh.us

WEST MOULTON STATION EXPANSION PROJECT AUGLAIZE COUNTY, OHIO

WETLAND DELINEATION AND STREAM ADDENDUM REPORT

Prepared for:

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



Prepared by:

AECOM 525 Vine Street, Suite 1800
Cincinnati, Ohio 45202
Imagine it. Delivered.

Project #: 60567952

September 2021

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APPENDICES

APPENDIX A	USACE WETLAND DETERMINATION DATA FORMS
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LIST OF ACRONYMS and ABBREVIATIONS

AECOM	AECOM Technical Services, Inc.
AEP Ohio Transco	American Electric Power Ohio Transmission Company
DBH	Diameter at Breast Height
DOW	Division of Wildlife
DWR	Division of Water Resources
FAC	Facultative
FACU	Facultative upland
FACW	Facultative wetland
GIS	Geographic Information System
GNSS	Global Navigation Satellite System
HHEI	Headwater Habitat Evaluation Index
IBI	Index of Biotic Integrity
NHD	National Hydrography Dataset
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
OAC	Ohio Administrative Code
OBL	Obligate wetland
ODNR	Ohio Department of Natural Resources
OEPA	Ohio Environmental Protection Agency
OHWM	Ordinary High Water mark
ONHD	Ohio Natural Heritage Database
ORAM	Ohio Rapid Assessment Method
PEM	Palustrine emergent
PFO	Palustrine forested
PSS	Palustrine scrub/shrub
PUB	Palustrine unconsolidated bottom
PHW	Primary Headwater
QHEI	Qualitative Habitat Evaluation Index
ROW	Right-of-way
UDF	Upland Drainage Feature
UPL	Upland
U.S.	United States
USACE	United States Army Corps of Engineers

USDA United States Department of Agriculture

USFWS United States Fish and Wildlife Service USGS

United States Geological Survey WOTUS Waters
of the U.S.

1.0 INTRODUCTION

American Electric Power Ohio Transmission Company (AEP Ohio Transco) proposes to expand the existing West Moulton Station (Project) in Auglaize County, Ohio. The Project is one part of the Wapakoneta Improvements Project, having separate Wetland Delineation and Stream Assessment reports for each project component. In January of 2019, AEP Ohio Transco identified the existing 14-acre property boundary and two transmission lines, as the potential work area (Project Survey area). The original delineation report (*West Moulton Station Expansion Project Wetland Delineation and Stream Assessment Report – January 2020*) discussed herein shall be referred to as the January 2020 – Report.

Since the January 2020 – Report, AEP Ohio Transco has updated the Project survey area to include a 0.30-acre survey area to accommodate an additional work pad and adjustment to the proposed tie-in to the St. Mary's substation. The proposed Project location which includes the newly added work areas is illustrated on Figure 1. As reference, AECOM has included the identified features along the Project that were originally provided within the January 2020 – Report within the text and tables. Previously identified features, data forms, photographs, and supporting information of the previous surveys of the Project are contained within the January 2020 Report.

This addendum wetland delineation and stream assessment report includes the results (data forms, photographs, and updated figures) associated with wetlands and/or streams identified within the addendum survey area of the Project. Due to potential overlap between new and previously delineated features, the extent of delineated features and survey areas (new and previously identified) are displayed on the attached figures within the extent of the Project.

2.0 METHODOLOGY

A comprehensive methodology of the field surveys and data reviews completed for this report are included in the January 2020 – Report and a summary of the delineation and agency coordination methodology has been provided below.

Delineations were conducted in accordance with the procedures outlined in the U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual (*1987 Manual*) (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (Version 2.0) (*MW Regional Supplement*) (USACE, 2010). In addition, any wetlands that were identified were classified using the Ohio Environmental Protection Agency (OEPA) Ohio Rapid Assessment Method for Wetlands V. 5.0 (ORAM) (Mark, 2010). Stream assessments were conducted using the methods described in the OEPA's Methods for Assessing Habitat in Flowing Waters by using the OEPA's Qualitative Habitat Evaluation Index (Rank, 2006) and the OEPA's Field Methods for Evaluating Primary Headwater Streams in Ohio (OEPA, 2020).

Initial coordination from the U.S. Fish and Wildlife Service (USFWS) and the Ohio Department of Natural Resources (ODNR) was received as part of the original January 2020 – Report in August 2019. As the Addendum Project is located within proximity to the original assessment, AECOM review the original correspondence to identify if additional habitats would warrant further review regarding the previous correspondence for federal and/or state listed threatened and/or endangered species.

3.0 RESULTS

On September 2, 2021, an AECOM ecologist walked the Project survey area to conduct the wetland delineation, stream assessment, and habitat survey. AECOM extended the boundary of one wetland (Wetland 03a) that extends south of the proposed additional work area. No new wetlands, streams or ponds were identified within the addendum study area. The location of this extended wetland is illustrated on Figure 3. The extended feature, previously identified features and habitat types found in the Project survey area are discussed in detail in the following sections.

3.1 WETLAND DELINEATION

3.1.1 PRELIMINARY SOILS EVALUATION

Soils in delineated wetlands were observed and documented as part of the delineation methodology. According to the USDA NRCS Web Soil Survey of Auglaize County, Ohio, and the USDA NRCS Hydric Soils Lists of Ohio, there are three soil types mapped within the Project survey area (NRCS, 2019). One soil map unit is identified as hydric, while the other map units have hydric components that may comprise nine percent of the area mapped within the unit. No new soil map units were identified in the added Project survey areas. Table 1 provides a detailed overview of all soil series and soil map units within the Project survey area. Soil map units located within the Project survey area are shown on Figure 2.

TABLE 1
SOIL MAP UNITS AND DESCRIPTIONS WITHIN THE WEST MOULTON STATION EXPANSION PROJECT SURVEY AREA

Soil Series	Symbol	Map Unit Description	Topographic Setting	Hydric	Hydric Component (%)
Blount	Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	end moraines, till plains	No	Pewamo, end moraine 6%
Glynwood	Gwe1B1	Glynwood silt loam, end moraine, 2 to 6 percent slopes	end moraines, till plains	No	Pewamo 6%
Pewamo	Pt	Pewamo silty clay loam, 0 to 1 percent slopes	depressions, till plains	Yes	Pewamo 85% Montgomery 5%

USDA, NRCS. 2019 Soil Survey Geographic (SSURGO) Database for Auglaize County, Ohio. Available online at:

<http://soildatamart.nrcs.usda.gov/>

USDA, NRCS. National Hydric Soils List by State (Soil Data Access Live query). Available online at:

https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1316619.html

According to the NWI data covering the Project location, the September 2021 – Addendum Project Survey area contains no new NWI mapped wetlands were identified. The locations of the NWI mapped wetlands are shown on Figure 2.

3.1.3 DELINEATED WETLANDS

No new wetlands were delineated and one previously identified wetland (Wetland 03a) was extended during the September 2021 field survey. The boundary of the previously delineated Wetland 03a was extended into the Addendum Survey Area. The total delineated area of Wetland 03a is approximately 0.68 acre (previously 0.67-acre) and the extension did not result in a change of the ORAM score and/or Category for this wetland. The remaining wetlands noted in the follow tables are associated with features delineated in the original Project survey area and additional information for these resources are provided in the January 2020 – Report.

Completed USACE wetland delineation forms and OEPA ORAM forms for the extended portion of Wetland 03a are provided in Appendix A and B of this Addendum report, respectively. Photographs taken of the extended portion of Wetland 03a are provided in Appendix C.

**TABLE 2
DELINEATED WETLANDS WITHIN THE WEST MOULTON STATION EXPANSION PROJECT SURVEY AREA**

Wetland Name	Latitude	Longitude	Cowardin Wetland Type ^a	ORAM Score ^b	ORAM Category ^b	Acreage within Project Survey Area
Wetland 01	40.55235	-84.33982	PEM	20	Category 1	0.02
Wetland 02a	40.5529	-84.34085	PEM	26	Category 1	0.74
Wetland 02b	40.55336	-84.34057	PSS			0.05
Wetland 03a	40.55296	-84.34315	PEM	28.5	Category 1	0.68
Wetland 03b	40.55241	-84.3438	PSS			0.08
Totals: 3 Wetlands						1.57

Cowardin Wetland Type^a: PEM = palustrine emergent; PSS = palustrine scrub-shrub
ORAM^b Scoring Category: 0-29.9 = Category 1

NOTE: Cells highlighted in yellow indicate changes to the information provided in the January 2020 – Report.

3.2 STREAM ASSESSMENT

During the Addendum survey, AECOM did not identify and/or modify any previously identified streams. Previously identified features, data forms, photographs, and supporting information of the previous surveys of the Project are contained within the January 2020 – Report.

3.3 PONDS

No ponds were identified within the original and/or addendum Project survey area.

3.4 UPLAND DRAINAGE FEATURES

No new upland drainage features (UDFs) were identified during the September 2021 field survey. Previously identified upland drainage features from the January 2020 field survey are discussed in the January 2020 - Report.

3.5 VEGETATIVE COMMUNITIES

AECOM conducted a general habitat survey in conjunction with the stream and wetland field surveys during the January 2020 and September 2021 studies. Portions of the Project survey area were identified to contain either agricultural land, landscaped areas, old field, shrub-scrub, successional woodland, urban, or stream/wetland vegetative communities. Table 3 provides descriptions and updated acreages of the various types of land cover found in entire Project Survey Area, which is composed of the addendum and original survey areas. Vegetative communities that have had acreages updated are highlighted to signify the increase in area. Vegetated land cover can be seen visually from aerial photography provided on Figure 4.

**TABLE 3
VEGETATIVE COMMUNITIES WITHIN THE WEST MOULTON STATION EXPANSION PROJECT SURVEY AREA**

Vegetative Community	Description	Approximate Acreage	Approximate Percentage
Agricultural Land	Land utilized for row crops, whether planted or not, and not used for pasture or hay fields.	1.4	9.5
Landscaped Areas	Residential and commercial properties having frequently mowed grasses and forbs.	0.9	6.1
Old Field	Herbaceous cover exhibiting the earliest stages of recolonization by plants following disturbance, typically short-lived, giving way progressively to shrub and forest communities unless periodically re-disturbed. Old field areas identified were infrequently maintained areas of grasses and forbs with occasional shrubs.	5.1	34.0
Shrub-Scrub	The presence of shrubby woody vegetation covering at least 30% of the land surface, representing a successional stage between old field and second growth forest. Dominant species consist of herbaceous communities similar to old field habitat with a few woody species, to a community dominated by woody shrubs and/or sapling tree species.	3.6	23.8
Successional Woodland	Successional mixed hardwood woodland dominated by black locust (<i>Robinia pseudoacacia</i>), black cherry (<i>Prunus serotina</i>), and Tree of Heaven (<i>Ailanthus altissima</i>). The dominant shrub/sapling-layer included gray dogwood (<i>Cornus racemosa</i>) and Morrow's honeysuckle (<i>Lonicera morrowii</i>).	0.7	4.8
Urban	Developed areas with residential and commercial land uses, including roads, buildings and parking lots, generally devoid of significant woody and herbaceous vegetation.	1.8	10.9

**TABLE 3
VEGETATIVE COMMUNITIES WITHIN THE WEST MOULTON STATION EXPANSION PROJECT SURVEY AREA**

Vegetative Community	Description	Approximate Acreage	Approximate Percentage
----------------------	-------------	---------------------	------------------------

Stream/Wetland	All delineated wetlands, including emergent, scrub-shrub and forested components.	1.6	10.9
Totals:		14.7	100%

3.6 RARE, THREATENED AND ENDANGERED SPECIES

Within the January 2020 – Report, AECOM conducted a rare, threatened, and endangered species review for the AEP Wapakoneta Improvement Project which includes the West Moulton Station Expansion Project survey area. As this addendum does not result in a significant change of location, habitats, and potential for impact to the federal and/or state listed threatened and endangered species, a revision to the previous assessment was not warranted. Therefore, results of the protected species review are provided within the January 2020 – Report.

4.0 SUMMARY

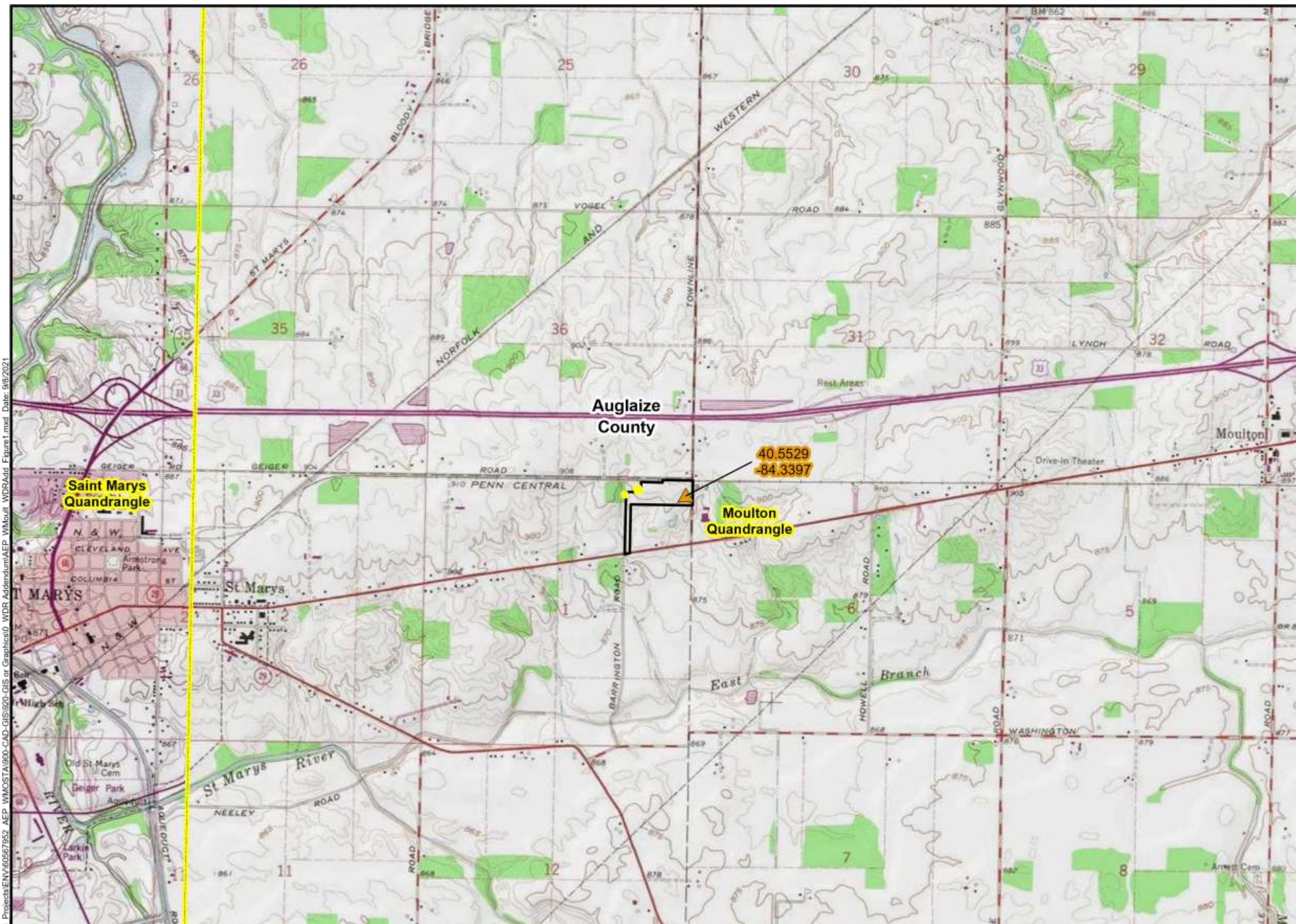
This addendum includes the wetland delineation and stream assessment results associated with the new survey areas located outside of the original survey associated with the West Moulton Station Expansion Project's January 2020 – Report. Identified wetlands and streams within the original wetland delineation and stream assessment report, *West Moulton Station Expansion Project – January 2020*, are included in the tables and on figures for reference. Data forms, photographs, and supporting information of the previously identified features are provided within the January 2020 – Report. As a result of the September 2021 Addendum, AECOM did not identify any new features and only extend one previously identified wetland (Wetland 03a) within the Addendum Survey Area.

Due to previous correspondence with ODNR/USFWS agencies regarding potential for federal and/or state listed species, AECOM concluded that the additional addendum area would not result in a change of the previously completed assessment. Therefore, threatened and endangered species summaries associated with this addendum are provided within the January 2020 – Report.





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

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

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- U.S. Fish and Wildlife Service. 2018. National Wetlands Inventory Geodatabase for Ohio. Available online at <http://www.fws.gov/wetlands/Data/Mapper.html>. Accessed 9/07/2021.
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LEGEND:

-  West Moulton Station
 Project Survey Area (September 2021 Addendum)
 Project Survey Area (January 2020)
 USGS 7.5" Topographical Quadrangle

1:24,000



BASE MAP SOURCE:
Copyright:© 2013 National Geographic Society, i-cubed
JOB NO. 60567952 **AECOM** STUDIO



**AEP OHIO
TRANSMISSION
COMPANY™**

West Moulton Station
Expansion Project
Addendum



LEGEND:

- ▲ West Moulton Station
- Project Survey Area (September 2021 Addendum)
- Project Survey Area (January 2020)
- NHD Stream (USGS)
- NWI Wetland (USFWS)
- Soil Map Unit (USDA-NRCS)

Soil Map Unit Symbol, Name

- Ble1A1, Blount silt loam, end moraine, 0 to 2 percent slopes
- Ble1B1, Blount silt loam, end moraine, 2 to 4 percent slopes
- Gwe1B1, Glynwood silt loam, end moraine, 2 to 6 percent slopes
- HkA, Kaskins loam, 0 to 2 percent slopes
- Pt, Pewamo silty clay loam, 0 to 1 percent slopes



1:2,400



BASE MAP SOURCE:
Source: Esri, Maxar, GeoEye, Earthstar Geographics,
JOB NO. 60567952

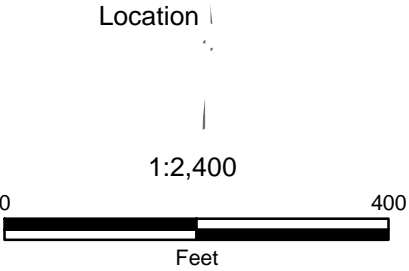


West Moulton Station
Expansion Project
Addendum



- LEGEND:
- #* West Moulton Station
 - Project Survey Area (September 2021 Addendum)
 - Project Survey Area (January 2020)
 - Delineated Wetland
 - #0 Wetland Data Point
 - #0 Upland Data Point
 - Delineated Intermittent Stream
 - Upland Drainage Feature
 - Approximate Wetland Location
 - Approximate Stream

3



BASE MAP SOURCE:
Source: Esri, Maxar, GeoEye, Earthstar Geographics,

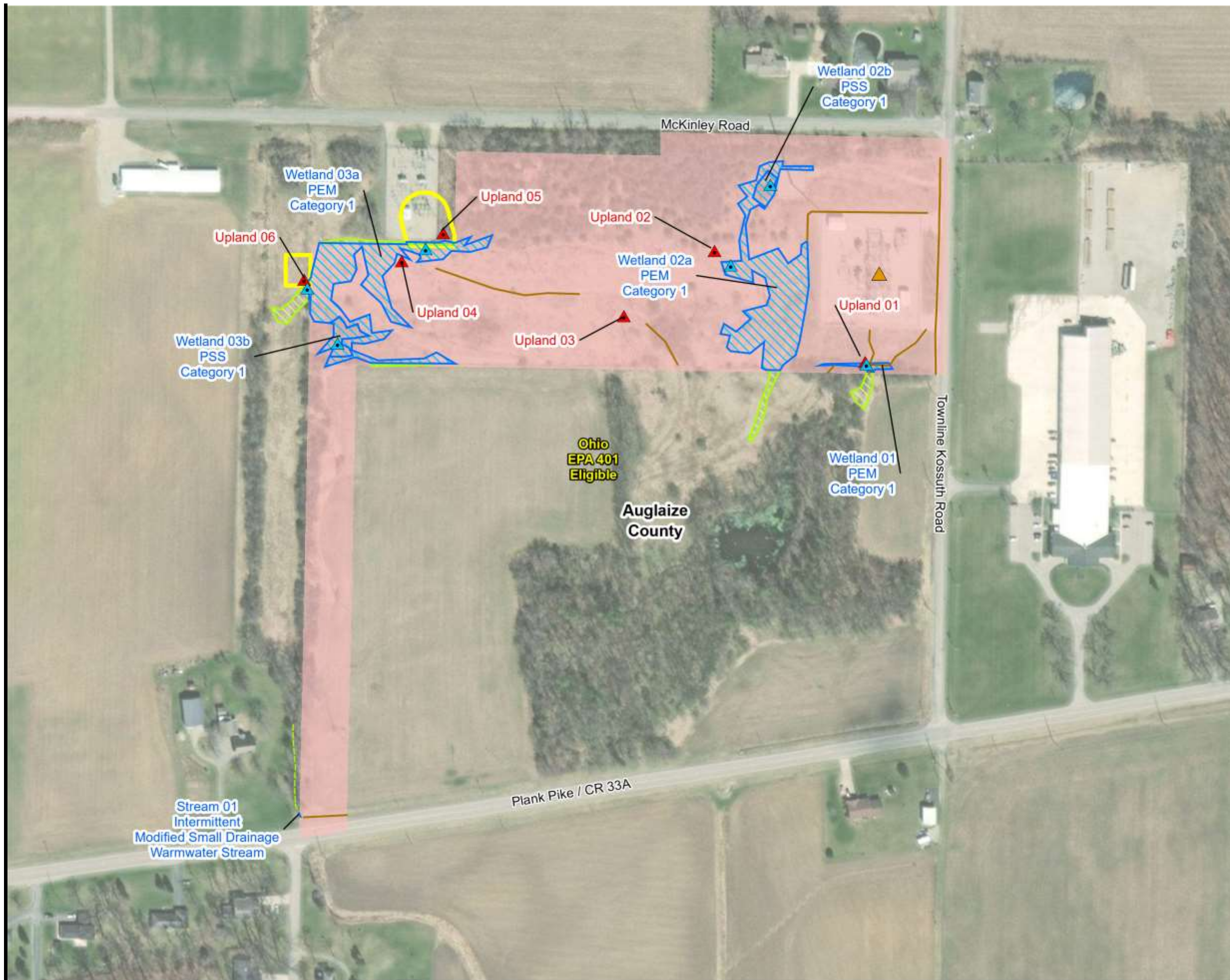


FIGURE 3
WETLAND DELINEATION AND
STREAM ASSESSMENT MAP



- LEGEND:
- #* West Moulton Station
 - Project Survey Area (September 2021 Addendum)
 - Project Survey Area (January 2020)
 - Delineated Wetland
 - Delineated Intermittent Stream
 - Vegetative Communities**
 - Agricultural Land
 - Landscaped Areas
 - Old Field
 - Shrub-scrub
 - Stream/Wetland
 - Successional
 - Woodland Urban

3

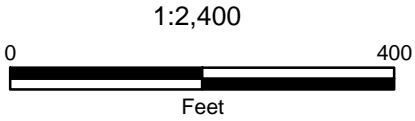
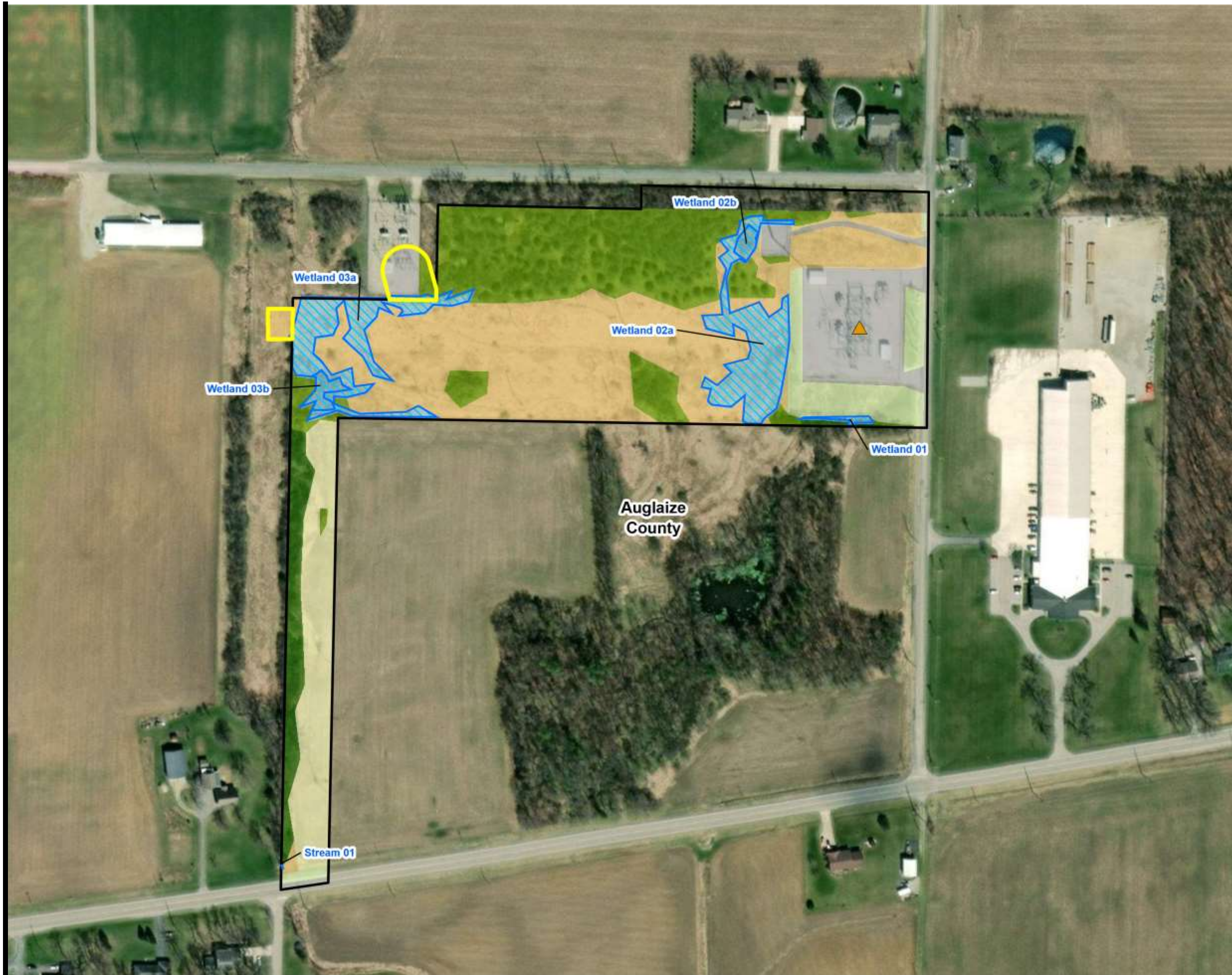


FIGURE 4
VEGETATIVE COMMUNITIES MAP



APPENDIX A USACE WETLAND DETERMINATION DATA FORMS

West Moulton Station Expansion Project

AEP

upl-jbl-20210902-01

Section, Township, Range: S1, T6S, R4E

Landform (hillside, terrace, etc.): flat Local relief (concave, convex, none): none

0-1 Lat: 40.55304 Long: -84.343017 Datum: NAD 83

Soil Map Unit Name: Gwe1B1 - Glynwood silt loam, end moraine, 2 to 6 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No

Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
September 2021 Addendum Report

Slope (%):

Are Vegetation

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

Hydrophytic Vegetation Present?	Yes	No	X
Hydric Soil Present?	Yes	No	X
Wetland Hydrology Present?	Yes	No	X
Is the Sampled Area within a Wetland?			
Yes No X			
Remarks: Sample point upl-jbl-20210902-01 for adjacent previously delineated wetland 03a. Taken on area north of wetland and east of existing sub station. Area does not meet wetland criteria.			

VEGETATION – Use scientific names of plants.

Absolute % Cover	Dominant Species?		Indicator Status	Dominance Test worksheet:	
	Yes	UPL		Number of Dominant Species That Are OBL, FACW, or FAC: 3	
				Total Number of Dominant Species Across All Strata: 6 (A)	
				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (B)	
				(A/B)	
=Total Cover				Prevalence Index worksh Total et:	
	Yes	FAC		% Cover of: Multiply by:	
	Yes	UPL		OBL species 0 x 1 = 0	
				FACW species 0 x 2 = 0	
				FAC species 115 x 3 = 345	
				FACU species 40 x 4 = 160	
				UPL species 45 (A) x 5 = 225	
=Total Cover				Column Totals: 730	
				3.65	
				200 =	
				Prevalence Index = B/A (B)	

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site:

City/County: Auglaize County

Sampling Date: 09/02/2021

Applicant/Owner:

State: OH

Sampling Point:

Investigator(s): JBL

<u>Tree Stratum</u> (Plot size: 30')		15	Yes	FACU
1.	<u>Pyrus calleryana</u>		Yes	FAC
			No	UPL
			No	FAC
		15		
<u>Sapling/Shrub Stratum</u> (Plot size: 15')		60		
1.	<u>Cornus racemosa</u>	15		
2.	<u>Pyrus calleryana</u>			
			=Total Cover	
		75	Yes	FAC
<u>Herb Stratum</u> (Plot size: 5')		40	=Total Cover	
1.	<u>Solidago canadensis</u>	25		
2.	<u>Vernonia gigantea</u>	15		
3.	<u>Daucus carota</u>	15		
4.	<u>Geum canadense</u>			
		95		
<u>Woody Vine Stratum</u> (Plot size: 30')		15		
1.	<u>Toxicodendron radicans</u>			
2.		15		
2.				
3.				
4.				
5.				
3.				
4.				
5.				
5.				
6.				
7.				
8.				
9.				

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point:

10.

Remarks: (Include photo numbers here or on a separate sheet.)
Hydrophytic vegetation indicators not observed

-jbl-20210902

Remarks

Redox concentrations

Redox Features

ng, M=Matrix.

atic Hydric Soils³:

ic vegetation and
at (S3) Redox

Yes No X

ited States,

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site:

City/County: Auglaize County

Sampling Date: 09/02/2021

Applicant/Owner:

State: OH

Sampling Point:

Investigator(s):JBL

Indicators (minimum of two required)

n Aerial Imagery (C9)

(D2)

t? Yes No X

upl-jbl-20210902-02

NWI classification: N/A

Soil Map Unit Name: Ble1B1

Are Vegetation

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

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes	No	X
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Wetland Hydrology Present?	Yes	No <input checked="" type="checkbox"/>				

Remarks:

Sample point upl-jbl-20210902-01 for extension of previously delineated PEM wetland 03a. Taken on area north of extended wetland area. Sample point does not meet wetland criteria

VEGETATION – Use scientific names of plants.

Absolute % Cover		Dominance Test worksheet:	
		Number of Dominant Species That Are OBL, FACW, or FAC:	1 _____
<u>Dominant Species?</u>	<u>Indicator Status</u>	Total Number of Dominant Species Across All Strata:	_____ (A)
_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	_____ (B)
_____	_____		_____ 50.0% _____
_____	_____		_____ (A/B)
_____	_____	OBL species	0 _____
_____	_____	FACW species	90 _____
=Total Cover		FAC species	_____
		FACU species	5 _____
		UPL species	0 _____
		Column Totals:	25 _____
			120 _____

=Total Cover		Multiply by:	_____
		Prevalence Index = B/A	_____ (A)
		=	_____ (B)

Project/Site: City/County: Auglaize County Sampling Date: 09/02/2021

Applicant/Owner: State: OH Sampling Point:

Investigator(s):JBL

US Army Corps of Engineers Midwest Region – Version 2.0

SOIL

Sampling Point:

10.

Remarks: (Include photo numbers here or on a separate sheet.)
Hydrophytic vegetation indicators not observed

-jbl-20210902

Remarks

redox concentrations

Redox Features

ng, M=Matrix.

atic Hydric Soils³:

ic vegetation and
at (S3) Redox

Yes No X

ited States, Version 8.2,

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site:

City/County: Auglaize County

Sampling Date: 09/02/2021

Applicant/Owner:

State: OH

Sampling Point:

Investigator(s):JBL

Indicators (minimum of two required)

n Aerial Imagery (C9)

(D2)

t? Yes No X

Gemini West Moulton 138 kV T-Line Project

AEP

w-jbl-20210902-01

Section, Township, Range: S8, T6S, R6E

Landform (hillside, terrace, etc.): swale Local relief (concave, convex, none): concave

2 Lat: 40.552714 Long: -84.34403 Datum: NAD 83

Soil Map Unit Name: Gwe1B1 - Glynwood silt loam, end moraine, 2 to 6 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No

Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
Slope (%):

Are Vegetation

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

Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes X No	
Remarks: Sample point w-jbl-20210902-01 for extension of wetland 03a- PEM. Wetland dominated by phalaris. Boundary of the wetland is defined by geomorphic position and dominance of hydrophytic veg. Wetland extends to NHD stream to the west	

VEGETATION – Use scientific names of plants.

Absolute % Cover	Dominance Test worksheet:	
	Number of Dominant Species That Are OBL, FACW, or FAC: 1	
	Total Number of Dominant Species Across All Strata: 1 (A)	
	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (B)	
	(A/B)	
	Prevalence Index worksh Total et:	
	% Cover of:	Multiply by:
	OBL species 0	x 1 = 0
	FACW species 100	x 2 = 200
	FAC species	x 3 = 0
	FACU species 0	x 4 = 20
	UPL species 5	x 5 = 0
	Column Totals: 0 (A)	220
		2.10
	Prevalence Index = B/A (B)	
Dominant Species?	Indicator Status	
=Total Cover		
=Total Cover		

Project/Site: City/County: Auglaize County Sampling Date: 09/02/2021

Applicant/Owner: State: OH Sampling Point:

Investigator(s):JBL

US Army Corps of Engineers Midwest Region – Version 2.0

SOIL

Sampling Point:

10.

Remarks: (Include photo numbers here or on a separate sheet.)
Hydrophytic vegetation indicator present as Dominance Test >50% and Prevalence Index is less than 3

jbl-20210902-

Remarks
redox concentrations
Redox Features
ng, M=Matrix.
atic Hydric Soils ³ :
at (S3) Redox
Yes X No
ited States,

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site:

City/County: Auglaize County

Sampling Date: 09/02/2021

Applicant/Owner:

State: OH

Sampling Point:

Investigator(s):JBL

Indicators (minimum of two required)

n Aerial Imagery (C9)

t? Yes X No

tends offsite to NHD stream to the

APPENDIX B OEPA ORAM FORMS

AEP Ohio Transco
September 2021

West Moulton Station Expansion Project
Addendum Report

Background Information

Name	Bill Leopold	09/02/2021	
Affiliation	AECOM		
Address	525 Vine Street,Suite 1800 Cincinnati,OH 45202		
Phone Number:	(513) 419-3449		
Email address:	bill.leopold@aecom.com		
Name of Wetland:	Wetland 03a,b		
Vegetation Communities (US Emergent and shrub/scrub			
HGM Class	Depressional		
Location of Wetland include map,address if available,north arrow,landmarks,distances, roads,etc.	See attached map		
		Sources of information used Check all that apply	
Lat/Long or UTM Coordinate	40.55296,-84.34315	Site Visit	x
USGS Quad Name	Moulton	USGS Topo Map	x
County	Auglaize	National Wetland Inventory Map	x
Township	SI	Ohio Wetland Inventory Map	x
Section and Subsection	6S,4E	Soil Survey	x
Hydrologic Unit Code	St. Marys (04100004)	Delineation report/map	x
Wetland Size (acres,hectare)	Approximately 0.77-acres		

Name: Wetland 03a,b		12/23/2019
sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.)		<u>Site: AEP West Moulton Station</u>
<p>See attached map</p>		
Notes/Comments/Narrative Contains a PEM portion (Wetland 03a) and a PSS portion (03b)		

Final Score	28.5	Provisional Wetland Category	1
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Scoring Boundary Worksheet

The initial step in completing the ORAM is to identify the “scoring boundaries” of the wetland. In some instances this determination will be relatively easy and the scoring boundaries will coincide with jurisdictional boundaries. For example, the scoring boundary of an isolated cattail marsh located in the middle of a field will likely be the same as that wetland’s jurisdictional boundaries. In other instances, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other wetlands, or that 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. Wetlands that are contiguous or connected wetlands should be established where the volume, flow, or velocity of water entering or leaving the wetland changes significantly. *Areas with a high degree of hydrologic interaction should be scored together.* In determining a wetland’s scoring boundaries, use the guidelines in the ORAM. In certain instances, it may be difficult to establish the scoring boundary for the wetland being scored. Situations include wetlands that form a patchwork on the landscape, wetlands divided by roads, property fences, roads, or railroad embankments, wetlands that are contiguous with upland areas, rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that you contact Ohio EPA, Division of Surface Water, 401/Wetlands Unit if there are additional questions or for further clarification of the appropriate scoring boundaries of a particular wetland.

properly establishing scoring boundaries	done?	not applicable
the wetland area of interest. This may be the site of a proposed mitigation site, conservation site, etc.	X	
locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced factors including, constrictions caused by berms or dikes, points where the hydrology changes rapidly at rapids or falls, points where significant changes occur at the confluence of rivers, or other factors that may restrict interaction between the wetlands or parts of a single wetland.	X	
the boundary of the wetland to be rated such that all areas of wetland are contiguous to and within the areas where the hydrology changes significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	X	
if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	X	
in some cases, the Rater may enlarge the minimum scoring boundaries to score together wetlands that could be scored separately.		X

ORAM Manual Section 5.0 for how to establish scoring boundaries
that form a patchwork on the landscape, divided by artificial
contiguous to streams, lakes or rivers, or for dual
S.

X

Wetland 03a.b

Narrative Rating

each of the following questions. Questions 1, 2, 3 and 4 should be answered based on 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 East F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), 614-265-3096 (fax). The remaining questions are designed to be answered primarily by the user. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is defined under the Endangered Species Act and is the geographic area containing physical or biological features essential for the conservation of a listed species or as an area that may require special management. The Rater should contact the Region 3 Headquarters or the Reynoldsburg Ecological Services Center to determine whether critical habitat has been designated for other federally listed threatened or endangered species. "Listed" means the wetland is listed in the appropriate State of Ohio database.

	Circle one	
Is the wetland in a township, section, or subsection of a 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for a listed or endangered plant or animal species? Or, is the wetland adjacent to a listed or endangered species? Or, is the wetland adjacent to a listed or endangered species? Or, is the wetland adjacent to a listed or endangered species?	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	NO Go to Question 2
Endangered Species. Is the wetland known to contain or document occurrences of federal or state listed endangered plant or animal species?	YES Wetland is a Category 3 wetland. Go to Question 3	NO Go to Question 3
High Quality Wetland. Is the wetland on record in the National Wetlands Inventory as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
Concentration Area. Does the wetland contain a nationally significant breeding or nonbreeding area for a migratory bird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	NO Go to Question 5
Is the wetland less than 0.5 hectares (1 acre) and either 1) comprised of emergent (greater than eighty per cent areal cover) <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
Is the wetland a peat-accumulating wetland that 1) has no standing water, 2) supports acidophilic mosses, or 3) the acidophilic mosses have >30% cover, and 4) the species from Table 1 is present, and 5) the species from Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
Is the wetland a carbon accumulating (peat, muck) wetland that 1) has standing water, 2) has a circumneutral pH (5.5-8.5), 3) the species from Table 1 is present, and 4) the species from Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a

#	Question	Circle one	
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	<input checked="" type="radio"/> NO Go to Question 8b
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status. Go to Question 9a	<input checked="" type="radio"/> NO Go to Question 9a
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	<input checked="" type="radio"/> NO Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status Go to Question 9d	<input checked="" type="radio"/> NO Go to Question 9c
9c	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 "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	<input checked="" type="radio"/> NO Go to Question 9d
9d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	<input checked="" type="radio"/> NO Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status Go to Question 10	<input checked="" type="radio"/> NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in 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 graminaceous 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.	YES Wetland is a Category 3 wetland. Go to Question 11	<input checked="" type="radio"/> NO Go to Question 11
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES Wetland should be evaluated for possible Category 3 status Complete Quantitative Rating	<input checked="" type="radio"/> NO Complete Quantitative Rating

Table 1. Characteristic plant species.

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

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

Field Id: Metric 1.

max.6 pts	2	2	subtotal
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Wetland Area (size). w-bl-20191220-02

Select one size class and assign score.

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

0.7 7 acres

max.14 pts.	4	6
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Metric 2. Upland buffers and surrounding land use.

subtotal **2a. Calculate average buffer width. Select only one and assign score. Do not double check.** WIDE.
Buffers average 50m (164ft) or more around wetland perimeter(7)

NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter(1) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)

VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)

LOW. Old field (>10 years), shrubland, young second growth forest. (5)

MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban,

industrial, open pasture, row cropping, mining, construction. (1) **12.01 18.0!**

Metric 3. Hydrology.

max.30 pts.	subtotal
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3a. Sources of Water. Score all that apply.

High pH groundwater (5)

Other groundwater (3)

Precipitation (1)

Seasonal/Intermittent surface water (3)

Perennial surface water(lake or stream) (5) **3d. Duration inundation/saturation. Score one or dbl check. 3c. Maximum water depth. Select one.**

Semi- to permanently inundated/saturated(4)

>0.7 (27.6in) (3)

0.4 to 0.7m (15.7 to 27.6in) (2)

x <0.4m (<15.7in) (1)

Seasonally inundated (2) Regularly inundated/saturated (3)

Seasonally saturated in upper 30cm (12in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

None or none apparent (12)

Check all disturbances observed

Recovering (3) Recovered (7)

x ditch tile

x point source (nonstormwater) filling/grading

Recent or no recovery(1)

dike

road bed/RR track weir

dredging

stormwater input

Other:

max.20 pts.	9.51	27.51
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Metric 4. Habitat Alteration and Development.

subtotal **4a. Substrate disturbance. Score one or double check and average.**
None or none apparent (4)

Recovered (3) Recovering (2)

Recent or no recovery(1)

4b. Habitat development. Select only one and assign score. Excellent (7)

Very good (6)

Good (5)

Moderately good (4)

Fair(3)

Poor to fair (2) Poor(1)

4c. Habitat alteration. Score one or double check and average.

None or none apparent (9)

Recovered (6)

Recovering (3)

Recent or no recovery(1)

Check all disturbances observed

mowing shrub/sapling removal grazing herbaceous/aquatic bed removal

x selective cutting clearcutting sedimentation dredging

woody debris removal farming toxic pollutants
nutrient enrichment

27.5

sub-I this page ORAM v. 5.0 Field Form Quantitative Rating

Wetland 03a,b

!Site: AEP West Moulton Station

!Rater(s): BL (AECOM)

Date:

09/02/2021

Field Id:

w-bl-20191220-02

subtotal this page

01 27.5**Metric 5. Special Wetlands.**

Check all that apply and score as indicated.

- Bog (10)
 Fen (10)
 Old growth forest (10)
 Mature forested wetland (5)
 Lake Erie coastal/tributary wetland-unrestricted hydrology (10)
 Lake Erie coastal/tributary wetland-restricted hydrology (5) Lake Plain Sand
 Prairies (Oak Openings) (10)
 Relict Wet Prairies (10)
 Known occurrence state/federal threatened or endangered species (10)
 Significant migratory songbird/water fowl habitat or usage (10)
 category 1 Wetland. See Question 5 Qualitative Rating (-10)

1 28.5

Metric 6. Plant communities, interspersions, microtopography.**6a. Wetland Vegetation Communities.****Vegetation Community Cover Scale**

0 Absent or comprises <0.1ha (0.2471 acres) contiguous area Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or

comprises a

1

vegetation and is of moderate quality or comprises a small

part and is of high quality

3

Present and comprises significant part, or more, of wetland's 3 vegetation and is of high quality

Narrative Description of Vegetation Quality

Low spp diversity and/or predominance of nonnative or low

disturbance tolerant native species

Native spp are dominant component of the vegetation, mod

None (0) can also be present, and species diversity moderate to

moderately high, but generally w/o presence of rare Table 1 ORAM long form for list. Add

A predominance of native species, with nonnative spp high Extensive

absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

1

Mudflat and Open Water Class Quality

0

Absent <0.1ha (0.247 acres)

Low 0.1 to <1 ha (0.247 to 2.47 acres)

Coarse woody debris >15cm (6in)

3

1

Microtopography Cover Scale

0

Absent

Present very small amounts or if more common of marginal quality

2

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

3

Present in moderate or greater amounts and of highest quality

max 10 pts.

subtotal

max 20 pts.

subtotal

significant part but is of low quality

2

Present and either comprises significant part of wetland's 2 Mudflats



Open water

Other _____

6b. horizontal (plan view) Interspersions.

1 e

::: ::h(4)

Moderate (3)

Moderately low (2)

Low (1) although nonnative and/or disturbance tolerant native spp

6c. Coverage of invasive plants. Refer moderately high, but generally w/o presence of rare Table 1 ORAM long form for list. Add

threatened or endangered spp to or deduct points for coverage

>75% cover (-5) and/or disturbance tolerant native spp absent or virtually

Moderate 25-75% cover (-3)

Sparse 5-25% cover (-1)

Nearly absent <5% cover (0)

Absent (1)

6d. Microtopography.

Score all present using 0 to 3 scale.

Vegetated hummocks/tussocks 2 Moderate 1 to <4ha (2.47 to 9.88 acres)

High 4ha (9.88 acres) or more

Standing dead >25cm (10in) dbh

Amphibian breeding pools

m

Category 1

28.5!GRAND TOTAL(max 100 pts)

ORAM Summary Worksheet

circle answer

		or insert score	Result
g	Question 1 Critical Habitat	YES <input checked="" type="radio"/> NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES <input checked="" type="radio"/> NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES <input checked="" type="radio"/> NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES <input checked="" type="radio"/> NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES <input checked="" type="radio"/> NO	If yes, Category 1.
	Question 6. Bogs	YES <input checked="" type="radio"/> NO	If yes, Category 3.
	Question 7. Fens	YES <input checked="" type="radio"/> NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES <input checked="" type="radio"/> NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES <input checked="" type="radio"/> NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES <input checked="" type="radio"/> NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands - Unrestricted.	YES <input checked="" type="radio"/> NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES <input checked="" type="radio"/> NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES <input checked="" type="radio"/> NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES <input checked="" type="radio"/> NO	If yes, evaluate for Category 3; may also be 1 or 2.
ating	Metric 1. Size	2	
	Metric 2. Buffers and surrounding land use	4	
	Metric 3. Hydrology	12	
	Metric 4. Habitat	9.5	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersions, microtopography	1	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.ohio.gov/dsw/401/index.aspx to determine the wetland's category based on its quantitative score	28.5	Category based on score breakpoints Category 1

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

End of Ohio Rapid Assessment Method for Wetlands.

APPENDIX C DELINEATED WETLANDS PHOTOGRAPHS

Client Name:**Site Location:****Project No.**

AEP

West Moulton Station Expansion Project
Addendum

60567997

Wetland 03a**Date:**

September 2, 2021

Description:

PEM wetland

Category 1

Facing North

**Wetland 03a****Date:**

September 2, 2021

Client Name:

Site Location:

Project No.

Description:

PEM wetland

Category 1

Facing East



AEP

West Moulton Station Expansion Project
Addendum

60567997

Wetland 03a

Date:

September 2, 2021

Client Name:

Site Location:

Project No.

Description:

PEM wetland

Category 1

Facing South



Wetland 03a

Date:

September 2, 2021

Description:

PEM wetland

Category 1

Facing West



Client Name:

AEP

Site Location:West Moulton Station Expansion Project
Addendum**Project No.**

60567997

Wetland 03a**Date:**

September 2, 2021

Description:

PEM wetland

Category 1

Facing Soil Pit

