



Legal Department

American Electric Power  
1 Riverside Plaza  
Columbus, OH 43215-2373  
AEP.com

Chairman Todd Snitchler  
The Public Utilities Commission of Ohio  
Ohio Power Siting Board  
180 East Broad Street  
Columbus, Ohio 43215

February 7, 2014

**RE: Letter of Notification for the Azalea 138kV Extension East Project  
Case No. 14-0195-EL-BLN**

Yazen Alami, Esq.  
Regulatory Services  
(614) 716-2920 (P)  
(614) 716-2950 (F)  
yalami@aep.com

Dear Chairman Snitchler:

In accordance with rules 4906-5-02(A) and 4906-11-01, Ohio Administrative Code ("OAC"), AEP Ohio Transmission Company ("AEP Ohio Transco") submits this Letter of Notification for expedited approval. A check in the amount of two thousand dollars for the expedited application processing fee will be sent under separate cover. Construction of the project is scheduled to begin in May 2014 and is projected to be completed in July 2014.

As required by rule 4906-11-01(D), OAC, AEP Ohio Transco has submitted a copy of the enclosed letter of notification to the chief executive officer of each municipal corporation and county and the head of each public agency charged with protecting the environment or of planning land use in the area in which the proposed project will be located. Attached to the letter of notification are copies of the letters that have been submitted.

Should you have any questions, please do not hesitate to contact me.

Respectfully submitted,

/s/ Yazen Alami  
Yazen Alami

Attachments

**LETTER OF NOTIFICATION FOR THE  
AZALEA 138KV EXTENSION EAST PROJECT**

**PUCO Case No. 14-0195-EL-BLN**

**Submitted pursuant to OAC 4906-11-01**

**AEP Ohio Transmission Company  
(AEP Ohio Transco)**

**February 2014**

# **LETTER OF NOTIFICATION**

## **Azalea 138kV Extension East Project – New 138kV Service to Utica East Ohio Midstream, LLC (Momentum) in Leesville, Ohio**

The following information is being provided in accordance with the procedures delineated in Ohio Administrative Code Section 4906-11-01: Letter of Notification Requirements of the Rules and Regulations of the Ohio Power Siting Board.

### **4906-11-01 (B): General Information**

#### **4906-11-01 (B) (1) a: Name and Reference Number**

Name of Project: The name of the project is the Azalea 138kV Extension East.

2014 LTFR Reference: The proposed Project will be identified in the 2014 LTFR. The reference number will be supplied at a later date.

#### **4906-11-01 (B) (1) b: Brief Description of Project**

American Electric Power Ohio Transmission Company (AEP OH Transco) is proposing to construct a 1.35-mile overhead 138 kilovolt (kV) electric transmission line to serve a natural gas processing facility to be owned and operated by Utica East Ohio Midstream, LLC (Momentum) south of Leesville, in Orange Township, Carroll County, Ohio. Exhibit 1 shows the general location of the Project. Exhibit 1 is a partial copy of the United States Geological Survey, Carroll County, Ohio Quad, Map ID 40081-D2. Exhibit 2 provides an aerial photograph of the Project area showing the proposed route and existing lines.

AEP OH Transco proposes to build a hard tap off of AEP's existing Leesville Station, and build approximately 1.35 miles of 138kV electric transmission line to the Momentum 69kV station location, in order to provide service to Momentum's Leesville UEO Station. AEP OH Transco has worked with Momentum to develop a route that uses Momentum's acquired right-of-way (ROW) from their facility to the existing AEP's existing Leesville

Station. Although the line will initially be operated at 69kV, the Project will be designed and built to 138kV specifications to account for future area improvements and source injection into the area due to the shale gas activity. Twenty new, galvanized steel pole structures will be installed. Thirteen of these are tangent poles, four are running angles, two are dead ends, and one is hard tap. The proposed structures will be approximately 70 to 100 feet tall. The Project will require a 100-foot wide permanent ROW, and a portion of the project is adjacent to an existing distribution line ROW.

**4906-11-01 (B) (1) c: Why the Project Meets the Requirements for a Letter of Notification**

The Project falls under Item (1) (f) of the Interim Application Requirement Matrix for Electric Power Transmission Lines, in Appendix A of 4906-1-01. This section of the Code states that an applicant may use the Letter of Notification (LON) process if the Project is:

*(1) An electric transmission line that is:*

(f) Line(s) primarily needed to attract or meet the requirements of a specific customer or customers.

The Project presented in this LON fulfills this condition. The Project will meet the need requirements of Momentum for the Leesville UEO Station.

**4906-11-01 (B) (2): Need for the Project**

The Project will serve the load for Momentum's new Leesville UEO Station, which is expected to be approximately 20 mega volt amperes (MVA) by July 1, 2014, 45 MVA by January 1, 2015, and 62 MVA by June 1, 2015.

**4906-11-01 (B) (3): Location Relative to Existing or Proposed Lines**

The Bowerston-Leesville 69 kV transmission line is the only existing transmission line in the Project area. This line does not intersect with the proposed transmission line, but is located in the eastern portion of the Project Area at the existing Leesville substation. The

Bowerston-Leesville 69 kV transmission line exits the south side of the Leesville substation and heads south towards the village of Bowerston.

**4906-11-01 (B) (4): Alternatives Considered**

Due to the location of the existing substation and the Momentum facility, no significant alternatives were studied as part of this project. Small-scale alternatives within the proposed ROW were considered in order to reduce environmental impact and to meet engineering needs.

**4906-11-01 (B) (5): Construction Schedule**

Construction on the proposed Project is scheduled to begin on or about May 1, 2014, with a proposed in-service date of July 1, 2014. Tree clearing is scheduled to begin in March 2014 to avoid impacts to the Indiana bat.

**4906-11-01 (B) (6): Area Map**

Exhibit 1 is a map depicting the general location of the Project site. To locate and view the Project site from the Columbus, Ohio area:

- Take I-70 East toward Wheeling for approximately 80 miles.
- Merge onto I-77 North via Exit 180B toward Cleveland.
- After approximately 21 miles, take Exit 65 for US-36 toward Newcomerstown/Port Washington.
- Turn right onto US-36 East.
- After approximately 14 miles, US-36 East becomes US-250 East/OH-800 South.
- After 1.4 miles, turn left onto US-250.
- After 4.5 miles, turn left onto Patterson Road/OH-151.
- Stay on OH-151 for 5 miles and then turn left onto Leesville Road/OH-212.
- The Project begins approximately 1.6 miles north on the right.

#### **4906-11-01 (B) (7): Property Owner List**

This project will be located on new transmission line easements that have been obtained by AEP. AEP ROW agents worked with the property owners on which Momentum had already acquired ROW for a proposed gas pipeline. The gas pipeline is no longer proposed in the area.

#### **4906-11-01 (C): Technical Features of the Project**

##### **4906-11-01 (C) (1): Operating Characteristics**

AEP will design and construct the new transmission line for 138kV operations; however, initially it will only be energized to 69kV. Additional details are included in Section 4906-11-02 (B) (2) above. The transmission line has the following characteristics:

Voltage:	138 kV Alternating Braced Post
Conductor:	(3) 959,600 CM, Type 16: Suwannee-ACSS/TW
Shield Wire:	(1) 7#8 Alumoweld

##### **Structure types**

Structure 1:	Direct Embedded with guying where required
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#### **4906-11-01 (C) (2) (a): Calculated Electric and Magnetic Fields**

EMF levels were computed one meter above ground under the line and at the ROW edges (50/50 feet, left/right, from centerline). Our results, calculated by Carlos Casablanca using EPRI's EMF Workstation "Enviro" computer program, are summarized below.

Condition	Line Load (A)	Ground Clear. (Feet)	Electric Field (kV/m)*	Magnetic Field (mG)*
(1) Normal Max. Loading^	184	37.0	0.1/ 0.4/0.1	5/ 13/ 5
(2) Emergency Loading^^	258	37.0	0.1/ 0.4/0.1	7/ 18/ 7
(3) WN Conductor Rating^^^	2368	32.0	0.1/ 0.5/0.1	70/214/75
<b>IEEE Std C95.6-2002 Limits</b>			<b>5.0/10.0/5.0</b>	<b>9040/ /9040</b>

\*EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and nominal voltages. ROW width is 100 feet.

^Peak line flow expected with all facilities in service.

^^Maximum flow during critical system contingency.

^^^Maximum continuous flow that the line, including its terminal equipment, can withstand during winter conditions.

	Normal Max. Loading (A)	Emergency Loading (A)	Winter Normal Loading (A)
Azalea – Dennison – Desert Road Circuit	184	258	2368

#### **4906-11-01 (C) (2) (b): EMF Discussion**

Three loading conditions were examined: (1) normal maximum loading, (2) emergency loading, and (3) winter normal conductor rating, consistent with the OPSB requirements. Normal maximum loading represents the peak flow expected with all facilities in service; daily/hourly flows can fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal (WN) conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that the Azalea Extension would operate at its WN rating in the foreseeable future.

#### **4906-11-01 (C) (3): Estimated Costs**

The 2014 capital cost estimates for the proposed project have been tabulated by the Federal Energy Regulatory Commission (FERC) Electric Plant Transmission Accounts:

<b>ESTIMATES OF APPLICABLE INTANGIBLE AND CAPITAL COSTS</b>		
<b>FERC Account Number</b>	<b>Description</b>	<b>Cost</b>
350	Land and Land Rights	\$499,129
352	Structures & Improvement	Not Applicable
353	Substation Equipment	Not Applicable
354	Towers & Fixtures	Not Applicable
355	Poles & Fixtures	\$955,536
356	Overhead Conductors & Devices	\$987,622
357	Underground Conductors & Devices	Not Applicable
358	Underground-to-overhead Conversion Equipment	Not Applicable
359	Right-of-way Clearing, Roads, Trails or Other Access	Not Applicable
	<b>TOTAL</b>	<b>\$2,442,287</b>

#### **4906-11-01 (D): Socioeconomic Data**

##### **4906-11-01 (D) (1): Land Use**

Land along the proposed ROW consists of agricultural land (1,231 linear feet), existing access road (17 linear feet), existing ROW (1,428 linear feet), paved road (46 linear feet), unpaved road (13 linear feet), forests (2,043 linear feet), industrial (514 linear feet), open land (551 linear feet), residential (170 linear feet), palustrine emergent (PEM) wetland (305 linear feet), and palustrine scrub-shrub (PSS) wetland (843 linear feet). The Project is located south of the Village of Leesville in Carroll County, Ohio. The Project is located entirely within Carroll County. Based on the U.S. Census Bureau, the 2010 population for the Cass Township was 158, Orange Township, was 1,339, and Carroll County was 28,836. A portion of the project runs parallel to an existing distribution line ROW.

##### **4906-11-01 (D) (2): Agricultural Land**

The Project crosses 1,231 linear feet of agricultural land. During the field surveys, the agricultural land was being utilized for corn and hay production. While agricultural operations at pole locations will not be possible, crop production and pasture can continue between the poles within the ROW.



### **4906-11-01 (D) (3): Archaeological or Cultural Resources**

As part of AEP's assessment of the Project, a search of the Ohio Historic Preservation Office National Register of Historic Places on-line database was conducted. Properties in the database include Ohio listings on the National Register of Historic Places as well as districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. This search identified the existence of two historic sites within the Project area. Of these two sites, one has been demolished and the other has undergone alterations. Subsurface shovel testing was conducted to determine the presence of archaeological deposits. AEP does not anticipate that the project will impact cultural resources. A copy of the Phase I report will be provided under separate cover.

### **4906-11-01 (D) (4) a: Documentation of Letter of Notification Transmittal**

AEP is providing this LON to the following officials of Orange Township and Carroll County, Ohio. Copies of the transmittal letters to these officials are included with this submittal to the Ohio Power Siting Board. Additionally, although the data used in assessing the location of the Project (non-surveyed GIS based parcel data) indicates that no part of the Project crosses into the Village of Leesville, this data does have the potential for error. While all data reviewed indicates the Project is not located in Leesville, AEP has chosen to provide official notification to the Mayor of Leesville as a courtesy.

#### **Carroll County**

Mr. Thomas Wheaton  
President  
Carroll County Board of Commissioners  
119 South Lisbon Street, Suite 201  
Carrollton, OH 44615

Mr. Robert Wirkner  
Vice President  
Carroll County Board of Commissioners  
119 South Lisbon Street, Suite 201  
Carrollton, OH 44615

Mr. Jeffrey Ohler  
Commissioner  
Carroll County Board of Commissioners  
119 South Lisbon Street, Suite 201  
Carrollton, OH 44615

**Orange Township**

Mr. James Romig  
Orange Township Trustee  
Orange Township  
8283 Roswell Road SW  
Sherrodsville, OH 44675

Mr. Robert McClain  
Orange Township Trustee  
Orange Township  
9252 Autumn Road SW  
Bowerston, OH 44695

Mr. Joseph Nign  
Orange Township Trustee  
Orange Township  
P.O. Box 33  
Leesville, OH 44639

**Village of Leesville**

Mayor John Traxler  
Village of Leesville  
P.O. Box 204  
Leesville, OH 44639

**4906-11-01 (D) (4) b: Public Information Program**

AEP will advise local officials of features and the status of the proposed transmission line Project as necessary.

**4906-11-01 (D) (5): Current or Pending Litigation**

There is no known current or pending litigation involving this Project.

**4906-11-01 (D) (6): Local, State, and Federal Requirements**

Project activities may temporarily affect wetland areas and waterbodies located on the Project site; however, Wetlands and waterbodies will be avoided where possible. Where

avoidance is not possible, wetlands will be matted with timber matting which prevents impacts to the wetlands. A wetland determination and waterbody assessment report is included in the Appendix.

The Project requires a Storm Water Pollution Prevention Plan (SWPPP) based on the potential to disturb more than 1.0 acre of land during construction. This plan will be developed in accordance with the Ohio EPA's National Pollution Discharge Elimination System (NPDES) General Permit OCH000004 – Stormwater Discharges Associated with Construction Activity.

There are no additional known local, state, or federal requirements that must be met prior to commencement of construction on the proposed transmission line Project.

Sediment erosion controls will be installed and maintained in accordance with the best management practices detailed in the Ohio EPA's Rainwater and Land Development Manual.

#### **4906-11-01 (E): Environmental Data**

##### **4906-11-01 (E) (1): Endangered, Threatened, and Rare Species Investigation**

A written request was submitted to the Ohio Department of Natural Resources (ODNR) to research the presence of any rare, threatened, or endangered (RTE) within the Project area. ODNR responded to this request on January 8, 2014 indicating that there is one record of a RTE species and two records of managed areas located within a 1.5-mile radius of the Project. None of these records area located within the Project area and will not be impacted by the Project.

Additional written information was provided to the ODNR and the U.S. Fish and Wildlife Service regarding field observations of the presence of RTE species and/or their critical habitat. AEP will provide responses to this letter to the Ohio Power Siting Board when they are received from the ODNR. AEP is planning to conduct tree clearing beginning in March 2014 to prevent impacts to the Indiana bat and/or its habitat. No other RTE species

were identified as potentially occurring in the project area, and AEP does not anticipate impacts to any other RTE species.

#### **4906-11-01 (E) (2): Areas of Ecological Concern**

A wetland and waterbody delineation was conducted for the Project between December 27 and 28, 2013 and January 14, 2014. This delineation identified seven wetlands, seven ephemeral streams, one perennial stream and one pond. The seven wetlands consisted of one PEM wetland, two PSS wetlands, and four wetlands that had portions of PSS and PEM vegetation. Exhibit 3 depicts the wetland and waterbodies observed during the site delineations. No wetlands will be permanently impacted by the Project. AEP will place poles outside of wetland boundaries and will not fill or change the contours of any wetland onsite. Access to each pole location will, to the extent practical, avoid crossing through wetlands. Where a wetland crossing cannot be avoided, AEP will employ flexible matting that will be removed following completion of construction.

If necessary, stream crossings will be made by existing access routes where available. Where stream crossings are required, they will be evaluated on a case-by-case basis. Typically, if avoidance is not possible, the use of temporary timber bridges will be utilized for stream crossings during construction. Impacts to the identified pond will be avoided.

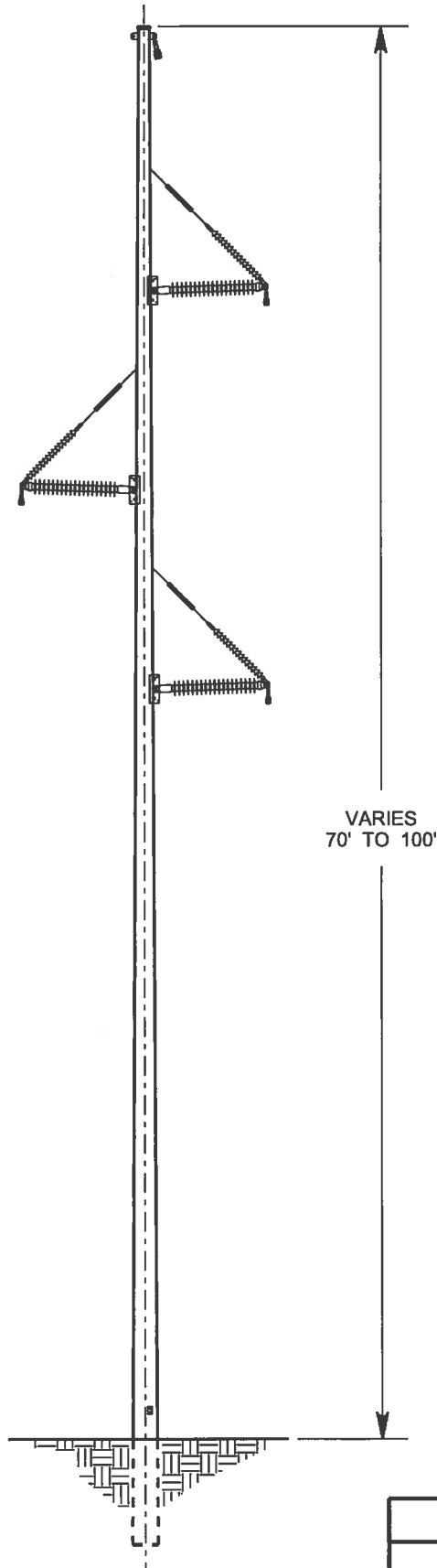
All temporary impacts associated with construction activities will be restored after construction has been completed.

#### **4906-11-01 (E) (3): Additional Information**

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electrical Safety Code as adopted by the Public Utilities Commission of Ohio and will meet all applicable safety standards established by Occupational Safety and Health Administration.

## **EXHIBITS**

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AZALEA 138kV EXTENSION, EAST

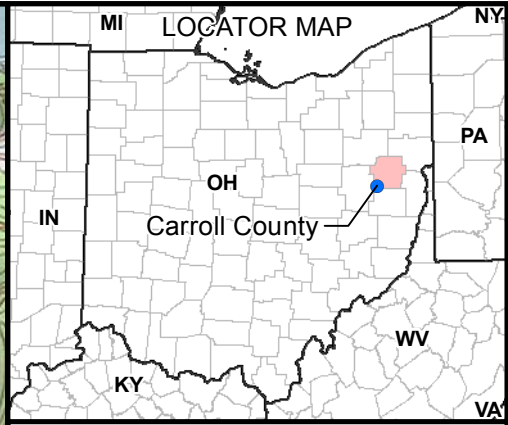
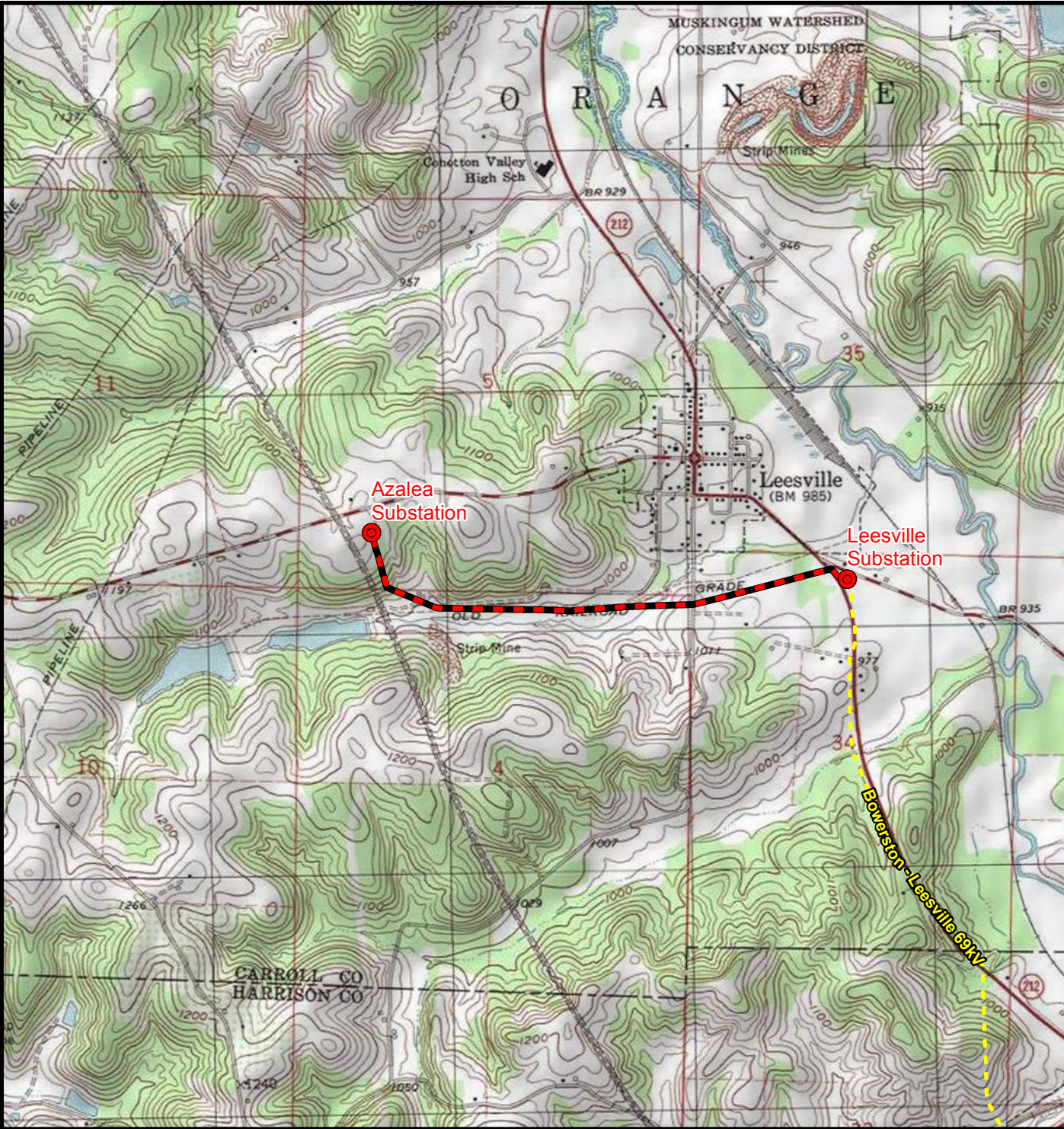


PROPOSED 138kV SINGLE CIRCUIT  
STEEL POLE

NOT TO SCALE

FIGURE





**LEGEND:**

- Substation
- Proposed Route
- Below 138 kV Existing Transmission Line

0 2,000 4,000

Scale In Feet

BASE MAP SOURCE:  
USGS 7.5' Topographic Quadrangle:  
Bowerston (published 1963)

LOCATOR MAP SOURCE:  
ESRI Data and Maps, 2010:  
U.S. States; U.S. Counties

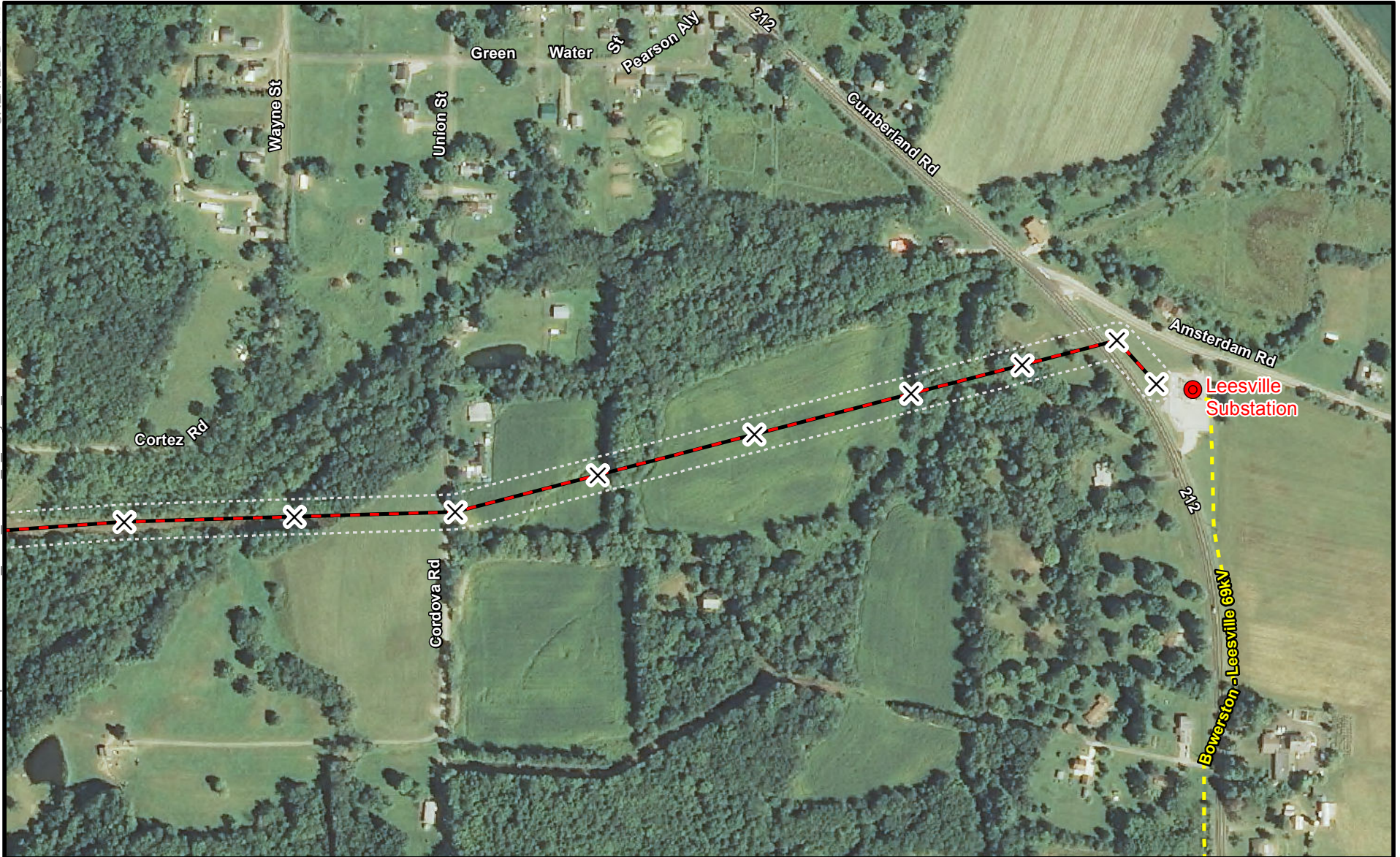
New 138kV service to  
Utica East Ohio Midstream,  
LLC (Momentum) in Leesville, OH

EXHIBIT 1  
OVERVIEW MAP

PN: 485272

DATE: 2/4/2014





**LEGEND:**

- ✕ Structure
- Substation
- Proposed Route
- - - 100-ft. Right-of-Way
- - - Existing 69 kV Transmission Line



BASE MAP SOURCE:  
National Agricultural Imagery Program, 2013  
Carroll, County



New 138kV service to  
Utica East Ohio Midstream,  
LLC (Momentum) in Leesville, OH

**EXHIBIT 2A  
PROJECT AREA**

PN: 485272

DATE: 2/4/2014







**LEGEND:**

- ✕ Structure
- Substation
- Proposed Route
- - - 100-ft. Right-of-Way
- Existing 69 kV Transmission Line



BASE MAP SOURCE:  
National Agricultural Imagery Program, 2013  
Carroll, County



New 138kV service to  
Utica East Ohio Midstream,  
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**EXHIBIT 2B  
PROJECT AREA**

PN: 485272

DATE: 2/4/2014







February 6, 2014

Mr. Robert Wirkner  
Vice President  
Carroll County Board of Commissioners  
119 South Lisbon Street, Suite 201  
Carrollton, OH 44615

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

Dear Mr. Wirkner:

In the subject project, AEP Ohio Transmission Company (AEP OH Transco) is proposing to construct a 1.35-mile overhead 138 kilovolt (kV) electric transmission line to serve a natural gas processing facility to be owned and operated by Utica East Ohio Midstream, LLC (Momentum) south of Leesville, Carroll County, Ohio. The proposed Project will be a steel pole-supported line, and will require a 100-foot-wide right-of-way. The project has been assigned OPSB Case Number 14-0195-EL-BLN.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's (OPSB's) requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the Project, which is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1395.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Todd Sides', is written over a horizontal line.

Todd Sides  
Project Management  
American Electric Power



February 6, 2014

Mr. Thomas Wheaton  
President  
Carroll County Board of Commissioners  
119 South Lisbon Street, Suite 201  
Carrollton, OH 44615

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

Dear Mr. Wheaton:

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Project Management  
American Electric Power



February 6, 2014

Mr. Jeffrey Ohler  
Commissioner  
Carroll County Board of Commissioners  
119 South Lisbon Street, Suite 201  
Carrollton, OH 44615

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

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Todd Sides  
Project Management  
American Electric Power



February 6, 2014

Branch Manager  
Bowerston Public Library  
200 Main Street  
Bowerston, Ohio 44695

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

Dear Mr. Ohler:

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Todd Sides  
Project Management  
American Electric Power



February 6, 2014

Mr. James Romig  
Orange Township Trustee  
Orange Township  
8283 Roswell Road SW  
Sherrodsville, OH 44675

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

Dear Mr. Romig:

In the subject project, AEP Ohio Transmission Company (AEP OH Transco) is proposing to construct a 1.35-mile overhead 138 kilovolt (kV) electric transmission line to serve a natural gas processing facility to be owned and operated by Utica East Ohio Midstream, LLC (Momentum) south of Leesville, Carroll County, Ohio. The proposed Project will be a steel pole-supported line, and will require a 100-foot-wide right-of-way. The project has been assigned OPSB Case Number 14-0195-EL-BLN.

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Todd Sides  
Project Management  
American Electric Power



February 6, 2014

Mr. Joseph Nign  
Orange Township Trustee  
Orange Township  
P.O. Box 33  
Leesville, OH 44639

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

Dear Mr. Nign:

---

In the subject project, AEP Ohio Transmission Company (AEP OH Transco) is proposing to construct a 1.35-mile overhead 138 kilovolt (kV) electric transmission line to serve a natural gas processing facility to be owned and operated by Utica East Ohio Midstream, LLC (Momentum) south of Leesville, Carroll County, Ohio. The proposed Project will be a steel pole-supported line, and will require a 100-foot-wide right-of-way. The project has been assigned OPSB Case Number 14-0195-EL-BLN.

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Todd Sides  
Project Management  
American Electric Power



February 6, 2014

Mr. Robert McClain  
Orange Township Trustee  
Orange Township  
9252 Autumn Road SW  
Bowerston, OH 44695

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

Dear Mr. McClain:

In the subject project, AEP Ohio Transmission Company (AEP OH Transco) is proposing to construct a 1.35-mile overhead 138 kilovolt (kV) electric transmission line to serve a natural gas processing facility to be owned and operated by Utica East Ohio Midstream, LLC (Momentum) south of Leesville, Carroll County, Ohio. The proposed Project will be a steel pole-supported line, and will require a 100-foot-wide right-of-way. The project has been assigned OPSB Case Number 14-0195-EL-BLN.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's (OPSB's) requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the Project, which is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1395.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Todd Sides', with a stylized flourish at the end.

Todd Sides  
Project Management  
American Electric Power





February 6, 2014

Mayor John Traxler  
Village of Leesville  
P.O. Box 204  
Leesville, OH 44639

**Subject: Letter of Notification, Azalea 138kV Extension East Project**

Dear Mr. Traxler:

In the subject project, AEP Ohio Transmission Company (AEP OH Transco) is proposing to construct a 1.35-mile overhead 138 kilovolt (kV) electric transmission line to serve a natural gas processing facility to be owned and operated by Utica East Ohio Midstream, LLC (Momentum) south of Leesville, Carroll County, Ohio. The proposed Project will be a steel pole-supported line, and will require a 100-foot-wide right-of-way. The project has been assigned OPSB Case Number 14-0195-EL-BLN.

Additionally, although the data used in assessing the location of the Project (non-surveyed geographic information system [GIS] based parcel data) indicates that no part of the project crosses into the Village of Leesville, this data does have the potential for error. While all data reviewed collaborates that the project is not located in Leesville, AEP has chosen to provide official notification to the Village of Leesville as a courtesy.

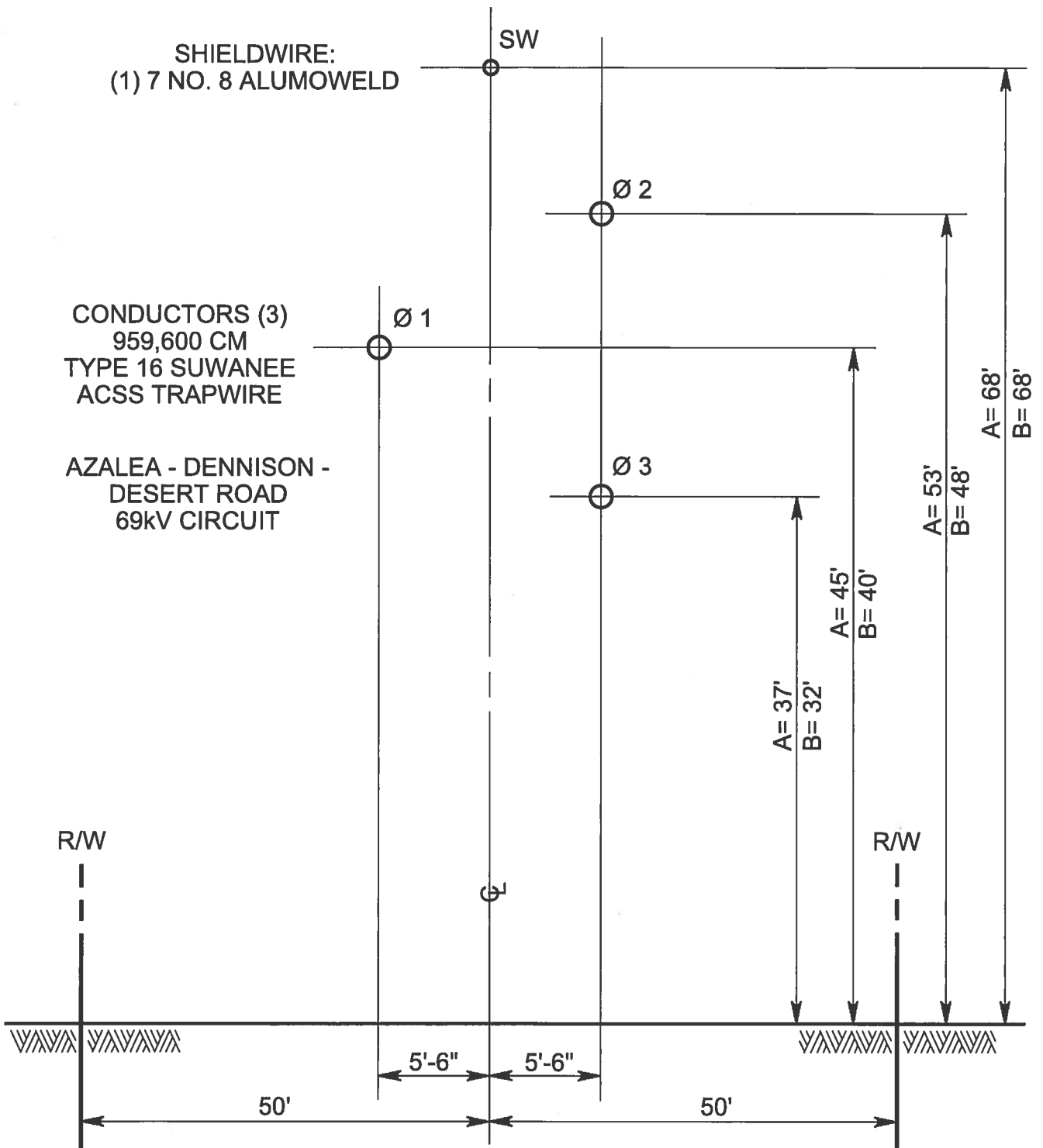
In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's (OPSB's) requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the Project, which is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1395.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Todd Sides', is written over a horizontal line.

Todd Sides  
Project Management  
American Electric Power



PROPOSED CONFIGURATION

DIMENSION "A" - SINGLE CIRCUIT - DELTA CONFIGURATION.  
(UNDER EMERGENCY & NORMAL MAX. LINE LOADING)

DIMENSION "B" - SINGLE CIRCUIT - DELTA CONFIGURATION.  
(UNDER WINTER NORMAL  
CONDUCTOR RATING)

<b>AEP</b> <b>AMERICAN</b> <b>ELECTRIC</b> <b>POWER</b>	AZALEA 138kV EXTENSION
TYPICAL PHASE ARRANGEMENT SINGLE CIRCUIT BRACED POST STRUCTURE	
NOT TO SCALE	FIGURE

W:\AEP\SITING\AZALEA\PHASING\_DIAGRAM.DGN

# New 69kV Service to Utica East Ohio Midstream, LLC (Momentum) in Leesville, OH

PREPARED FOR: Rebekah Hovermale, American Electric Power (AEP)

PREPARED BY: Lindsey Hesch, Environmental Scientist, CH2M HILL

Mark Driscoll, Project Manager, CH2M HILL

DATE: February 6, 2014

## Introduction

This technical memorandum serves to summarize the results of the wetland and waterbody determination field surveys conducted on December 27 and 28, 2013 and January 14, 2014, by CH2M HILL Engineers, Inc. (CH2M HILL) for the American Electric Power (AEP) New 69kV Service to Utica East Ohio Midstream, LLC (Momentum) in Leesville, Carroll County, Ohio (Project).

- Figure 1 provides an overview map of the environmental survey corridor based on a U.S. Geological Survey (USGS) topographic map.
- Figure 2 provides National Hydrography Dataset (NHD) and National Wetland Inventory (NWI) information.
- Figure 3 provides the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Soil Maps.
- Figure 4 provides Wetland and Waterbody Determination Maps.
- Appendix A provides photos of wetlands and waterbodies identified within the survey corridor.

## Background Information

Prior to conducting the field investigations, CH2M HILL reviewed the resources provided in Figures 1 through 3 to identify the potential extent of wetlands and waterbodies within the environmental survey corridor.

The environmental survey corridor of the Project crosses one USGS-mapped stream, which is an unnamed tributary to Conotton Creek, located about 1,700 feet east of the Leesville substation (Figures 1 and 2). Conotton Creek is tributary to the Tuscarawas River, located approximately 13 miles northwest of the project area.

According to the NRCS Soil Survey of Carroll County (Figure 3), the environmental survey corridor crosses eight mapped soil series. According to the Soil Survey Geographic (SSURGO) Database for Carroll County, three of these mapped soil series are identified as predominantly non-hydric soils: GfB, Glenford silt loam, 3 to 8 percent slopes; GfC, Glenford silt loam, 8 to 15 percent slopes; and Or, Orrville silt loam, occasionally flooded (USDA, 2009). The remaining mapped soil series are identified as non-hydric. Predominantly non-hydric soils are defined as having components greater than 0 percent and less than 34 that are hydric. Generally, hydric soils are those that indicate through their color and structure that they have experienced dominantly reducing (i.e. oxygen poor) conditions. Oxygen-poor conditions result from inundation and/or saturation by water.

The NWI data identifies the type of wetland or open water present at a location using the U.S. Fish and Wildlife Service (USFWS) classification system (Cowardin et al., 1979). The NWI data indicates that one palustrine, unconsolidated bottom, intermittently exposed (PUBG) feature, and one palustrine, scrub-shrub, broad-leaved deciduous/emergent, persistent, seasonally flooded (PSS1/EM1C) feature are within the

environmental survey corridor (Figure 2; USFWS 2012a and USFWS 2012b). The PSS1/EM1C feature was field verified as WRG003; however, the PUBG feature was not observed within the environmental survey corridor. Caution should be exercised when using NWI maps as the information is obtained largely from aerial interpretation, may be dated, and is only sporadically field checked. The presence of an NWI feature is not a definitive indicator that a wetland or waterbody is present.

## Field Survey Methodology

CH2M HILL conducted wetland and waterbody determination surveys within the Project area on December 27 and 28, 2013 and January 14, 2014. Wetland boundaries were assessed using the routine onsite methodology described in the U.S. Army Corps of Engineers' *Manual for Wetland Delineations* and subsequent guidance documents (USACE, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0)* (USACE, 2012).

Streams were identified as those waters that possessed a defined "bed and bank" or ordinary high water mark (OHWM) indicators and lacked a dominance of upland vegetation in the channel. Channels that parallel roadways were identified as upland drainage features and were not identified as streams unless they had an identifiable OHWM, were identified on the USGS topographic map, or represented a presumed relocation of a natural channel.

The 1.35-mile long Project will require a 100-foot wide permanent, maintained right-of-way (ROW); therefore, a 200-foot wide environmental survey corridor was chosen to encompass a larger area in case minor line adjustments were proposed after fieldwork was completed. Some areas surveyed exceeded 200 feet because additional field surveys were completed due to route modifications.

The outer boundaries of each wetland and waterbody identified within the Project area were flagged and recorded using handheld global positioning system (GPS). For waterbodies identified within the Project area, the OHWM was located, unless the OHWM could not be determined due to flooded conditions at the time of survey. If the OHWM could not be determined, the top of bank (TOB) was located as the jurisdictional boundary. As wetland and waterbody features were collected, they were each assigned unique feature identification (ID). Each feature collected received a unique feature identifier of DLLNNN, as outlined below.

D	=	Data Type (W for Wetland; S for Stream; P for Pond; and DP for Data Point)
LL	=	Initials of Field Survey Lead (RG for Rod Ginter, and MB for Maggie Vuturo Bosiljevac)
NNN	=	Feature Number (specific to each DLL combination starting with 001)

According to recent guidance from the U.S. Environmental Protection Agency (USEPA) and USACE, wetlands that are adjacent to or have a significant nexus to traditional navigable waters (TNWs) are regulated under Sections 401 and 404 of the CWA (USEPA and USACE, 2008). A significant nexus must meet criteria that indicate that the wetland provides biological, physical, or chemical benefits to the TNW. A significant nexus includes consideration of both hydrologic and ecologic factors. The closest downstream TNW to the Project area is the Tuscarawas River.

## Land Use Observations

The majority of the Project area is comprised of woodlands consisting of secondary growth forest interspersed with smaller areas of new field and early successional forest, ROW, and agricultural fields. Dominant canopy vegetation in the forested areas included Norway spruce (*Picea abies*), white pine (*Pinus strobus*), quaking aspen (*Populus tremuloides*), sugar maple (*Acer saccharum*), black cherry (*Prunus serotina*), and white oak (*Quercus alba*). The understory was comprised mostly of multiflora rose (*Rosa multiflora*) and Christmas fern (*Polystichum acrostichoides*). Property surrounding the existing substation was comprised mostly of mowed turf grass. Dominant vegetation within the maintained ROW and new fields included multiflora rose and fescue grasses (*Festuca* sp.), including nodding fescue (*Festuca*

*subverticillata*). Agricultural fields showed indications of being planted with corn (*Zea mays*) during the growing season. Palustrine scrub-shrub (PSS) wetlands were dominated by black willow (*Salix nigra*), elm (*Ulmus sp.*), multiflora rose, and poison ivy (*Toxicodendron radicans*). Herbaceous species in palustrine scrub shrub (PSS) wetlands included sphagnum moss (*Sphagnum sp.*), sedge (*Carex sp.*), giant goldenrod (*Solidago gigantea*), and silky dogwood (*Cornus amomum*). Palustrine emergent (PEM) wetlands were dominated by broadleaf cattail (*Typha latifolia*), common rush (*Juncus effusus*), wool grass (*Scirpus cyperinus*), sensitive fern (*Onoclea sensibilis*), sphagnum moss, and sedge.

## Wetland Summary

The wetland determination completed within the environmental survey corridor identified 12 wetlands, totaling 6.54 acres. Of these, seven wetlands, totaling 2.45 acres, are located within the proposed 100-foot wide permanent ROW. Additional information about each of these 12 identified wetlands is outlined in Table 1. Representative photographs are included in Appendix A. All wetlands appear to be hydrologically connected to a tributary system that flows to Connotton Creek, which flows to the Tuscarawas River.

**TABLE 1**

Wetlands within the Environmental Survey Corridor

Wetland ID	Cowardin Wetland Type <sup>a</sup>	Acreage within Environmental Survey Corridor	Acreage within Proposed ROW	Figure 4 Sheet
WMB001	PEM	0.04	0.02	D
WMB002	PEM	0.01	NA	D
	PFO	0.01	NA	D
WRG001	PEM	0.45	0.21	A
	PSS	0.34	0.20	A
WRG002	PEM	0.17	NA	B
WRG003	PEM	0.30	0.22	B
	PSS	1.08	0.48	B
WRG004	PEM	0.16	NA	D
WRG005	PSS	0.26	0.08	D
WRG006	PEM	0.42	NA	D
	PSS	0.20	NA	D
WRG007	PFO	0.51	NA	D
WRG008	PEM	0.02	0.02	C
	PSS	0.12	0.09	C
WRG009	PEM	0.04	0.04	C
	PSS	1.71	1.01	C
WRG010	PSS	0.73	0.09	C
<b>Route Total:</b>	<b>12</b>	<b>6.54</b>	<b>2.45</b>	<b>--</b>

<sup>a</sup> PEM = palustrine emergent, PSS = palustrine scrub/shrub, PFO = palustrine forested

NA = Not Applicable (wetland not located within proposed permanent ROW)

## Waterbody Summary

### Streams

The waterbody determination completed within the environmental survey corridor identified nine streams, totaling 3,080 linear feet. Of these, eight streams, totaling 1,301 linear feet, are located within the proposed 100-foot wide permanent ROW. Additional information about each of the identified nine streams is outlined in Table 2. Representative photographs are included in Appendix A.

**TABLE 2**

Streams within the Environmental Survey Corridor

Stream ID	Interpreted Flow Regime <sup>a</sup>	Linear Feet within Environmental Survey Corridor	Linear Feet within Proposed ROW	Figure 4 Sheet
SMB001	Ephemeral	96	34	A
SMB002	Ephemeral	130	127	A
SMB003	Ephemeral	69	69	D
SRG001	Ephemeral	353	121	D
SRG002	Ephemeral	173	109	D
SRG003	Ephemeral	270	141	B
SRG004	Perennial	338	156	B
SRG006	Ephemeral	668	544	B
SRG007	Perennial	984	NA	D
<b>Route Total:</b>	<b>9</b>	<b>3,080</b>	<b>1,301</b>	<b>--</b>

<sup>a</sup> Based on field observations and USGS topographic map.

NA = Not Applicable (stream not located within proposed permanent ROW)

### Ponds

No major lakes or reservoirs were identified within the environmental survey corridor. One pond was identified within the environmental survey corridor (0.01 acre). Less than 0.01-acre of this pond is located within the proposed permanent ROW.

## Conclusions

CH2M HILL completed wetland and waterbody determination field surveys on December 27 and 28, 2013 and January 14, 2014, within the Project area. Seven wetlands, totaling 2.45 acres; eight streams, totaling 1,301 linear feet; and less than 0.01 acre of one pond were identified within the proposed permanent ROW.

## References

Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. *Classification of wetlands and deepwater habitats of the United States*. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.

U.S. Army Corps of Engineers (USACE). 1987. Technical Report Y-87-1, *Corps of Engineers' Wetlands Delineation Manual*.

USACE. 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0).

[http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg\\_supp/EMP\\_Piedmont\\_v2b.pdf](http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg_supp/EMP_Piedmont_v2b.pdf). Accessed January 2014.

U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 2009. Soil Survey Geographic (SSURGO) database for Carroll County, Ohio. Accessed January 2014.

U.S. Environmental Protection Agency (USEPA) and USACE. 2008. Memorandum "Revised Guidance on Clean Water Act Jurisdiction Following the Supreme Court Decision in Rapanos v. U.S. and Carabell v. U.S." [http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/cwa\\_guide/cwa\\_juris\\_2dec08.pdf](http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/cwa_guide/cwa_juris_2dec08.pdf). Accessed January 2014.

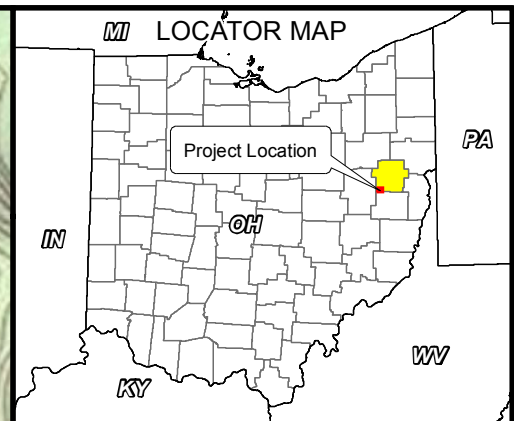
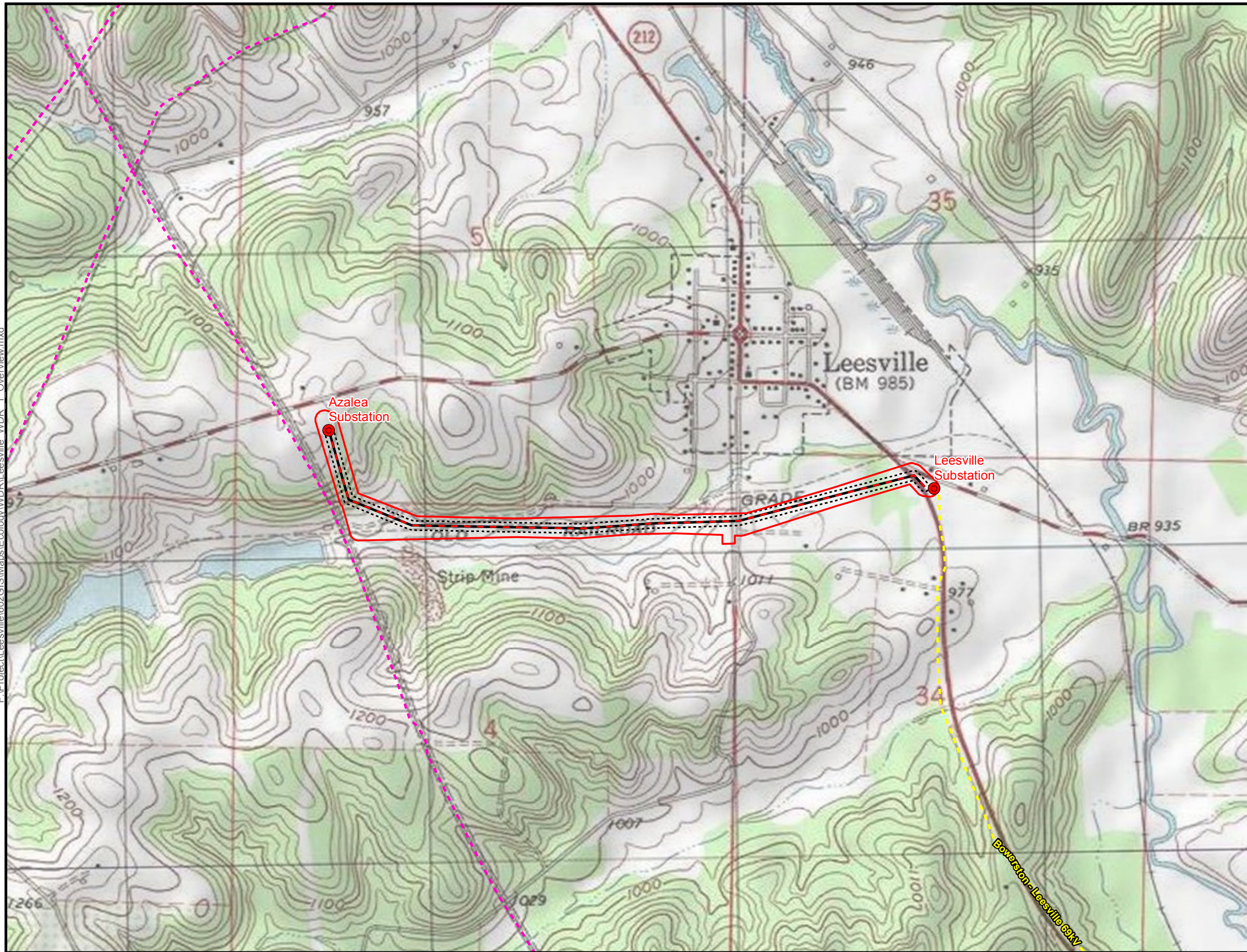
U.S. Fish and Wildlife Service (USFWS). (2012a). National Wetlands Inventory. <http://www.fws.gov/wetlands/Wetlands-Mapper.html>. Accessed January 2014.

U.S. Fish and Wildlife Service (USFWS). (2012b). Wetlands Code Interpreter. <http://137.227.242.85/Data/interpreters/wetlands.aspx>. Accessed January 2014.





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**LEGEND:**

- Substation
- Proposed Route
- - - 100-Foot Right-of-Way
- ▭ 200-Foot Survey Corridor
- - - Existing 69 kV Transmission Line
- - - Existing Gas Pipeline

BASE MAP SOURCE:  
USGS 7.5-minute Topographic Quadrangle:  
Bowerston (published 1963)  
LOCATOR MAP SOURCE:  
ESRI Data and Maps, 2010:  
U.S. States; U.S. Counties

0 1,000 2,000  
Scale In Feet



New 69kV service to  
Utica East Ohio Midstream,  
LLC (Momentum) in Leesville, OH

FIGURE 1  
OVERVIEW MAP

PN: 485272

DATE: 2/5/2014

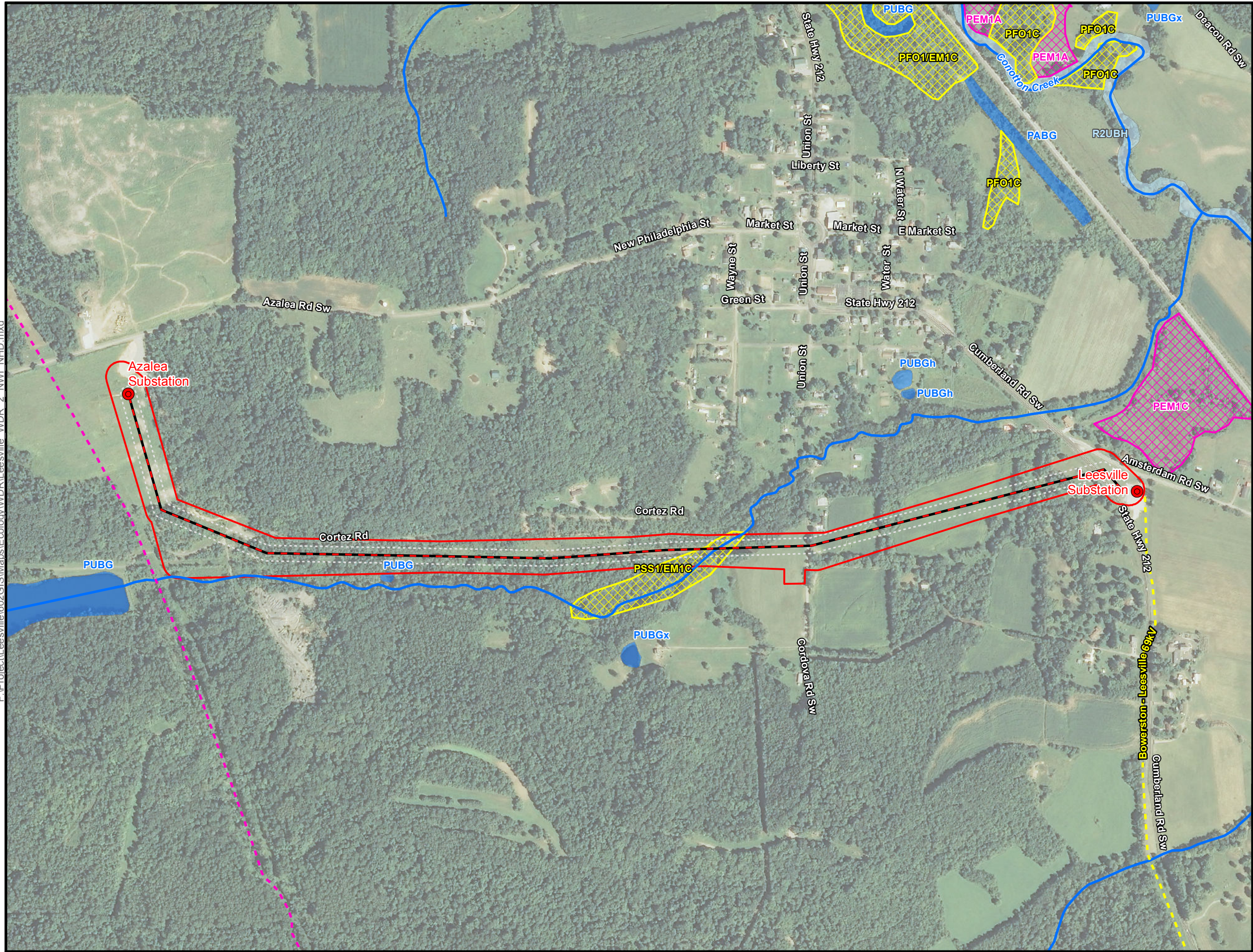
CREATED BY: AC

REVIEWED BY: MD





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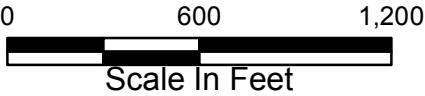
**LEGEND:**

- Substation
- Proposed Route
- - - 100-Foot Right-of-Way
- ▭ 200 - Foot Survey Corridor
- - - Existing 69 kV Transmission Line
- - - Existing Gas Pipeline
- NHD Stream

**NWI Wetland**

- ▨ Freshwater Emergent Wetland
- ▨ Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

BASE MAP SOURCE:  
National Agricultural Imagery Program, 2013  
LOCATOR MAP SOURCE:  
ESRI World Street Map, 2013  
DATA SOURCES:  
Streams (National Hydrography Dataset) -  
US Geological Survey  
Wetlands - National Wetland Inventory (NWI) -  
US Fish and Wildlife Service



New 69kV service to  
Utica East Ohio Midstream,  
LLC (Momentum) in Leesville, OH

FIGURE 2  
NATIONAL WETLAND  
INVENTORY AND NATIONAL  
HYDROGRAPHY DATASET MAP

PN: 485272  
CREATED BY: AC  
REVIEWED BY: MD

DATE: 2/5/2014  
 CH2MHILL



**This foregoing document was electronically filed with the Public Utilities**

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**in**

**Case No(s). 14-0195-EL-BLN**

Summary: Letter of Notification Azalea 138 kV Extension East Project (Part 1 of 5)  
electronically filed by Mr. Yazen Alami on behalf of Ohio Power Company