

the removal of two existing poles and the installation of poles 52 and 53; Wetland 07 will be permanently impacted by the removal of one existing pole and the installation of pole 66; Wetland 08 will be permanently impacted by the removal of one existing pole and the installation of poles 106 and 107; and Wetland 09 will be permanently impacted by the installation of pole 139. Because the poles to be installed in wetlands have a diameter at ground height that is only slightly larger than the diameter of the poles to be removed, the net loss of wetland habitat is small - approximately 15 square feet total. Wetlands identified at the project site, as well as their anticipated impacts, are summarized in Table 4 below. The location and approximate extent of each wetland is shown on the map sheets provided in this report. Photographs taken during the field portion of the study are provided in Appendix B.

Table 4: Identified Wetlands

ID	Habitat Type ¹	Description	Size ²	Anticipated Impact	Change ³ (sf)
Wetland 1	EM	Emergent, adjoins Stream 04	0.09	None	NC
Wetland 2	EM, SS	Emergent/Scrub-shrub, low area adjacent to tiled farm field	0.92	Pole removal & installation	-1.6
Wetland 3	EM	Emergent, within vegetated drainage channel	0.06	None	NC
Wetland 4	EM	Emergent, adjacent to Stream 05, possibly former streambank	0.06	None	NC
Wetland 5	EM, SS	Emergent/Scrub-shrub, floodplain area bisected by Stream 05	1.60	Pole removal & installation	-3.3
Wetland 6	EM, SS	Emergent/Scrub-shrub, adjoins Stream 12	0.03	None	NC
Wetland 7	EM	Emergent, adjacent to Stream 14	0.16	Pole removal & installation	-1.6
Wetland 8	EM, SS	Emergent/Scrub-shrub, low area adjacent to tiled farm field	1.30	Pole removal & installation	-5.1
Wetland 9	EM, SS	Emergent/Scrub-shrub, includes Stream 07, adjacent to Stream 08	0.96	Pole installation	-3.4
Total			5.18		-15.0

¹ P = Palustrine, EM = Emergent, SS = Scrub-shrub, FO = Forested. From Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al, 1979)

² Acres of wetland within right of way. Several surveyed wetland boundaries were extended to the edge of the right of way during map development.

³ Change is the expected amount of wetland to be lost (-) or gained (+) after poles have been removed and installed. NC means "no change".

3.3 Stream Assessment

Eighteen streams consisting of twenty-one stream segments were identified at the project site: four ephemeral, ten intermittent, and four perennial. All of the streams were assessed in the field and all are believed to be jurisdictional (i.e., "Waters of the U.S."). Streams 03, 05 through 08, 10, and 12 through 18 are within 100 feet of structures to be accessed for pole installation or removal. However, these streams are not expected to be impacted since each pole is accessible from a route that does not require a stream crossing and each pole will have control measures in place, as needed, to help buffer the stream from construction activities. Each of the remaining streams is 100 feet or more away from the nearest pole and is not expected to be impacted by pole removal or installation activities. Streams identified at the project site are summarized in Table 5 below. The location and approximate extent of each stream is shown on the map sheets provided in this report. Photographs taken during the field portion of the study are provided in Appendix B.

Table 5: Identified Streams

ID	Type	Description	Length (feet) ¹	Width (feet) ²
Stream 1	Intermittent	Tributary to Spicer Creek	105	8
Stream 2	Intermittent	Tributary to Spicer Creek	110	4
Stream 3	Perennial	Spicer Creek	170	15
Stream 4	Intermittent	Tributary to Spicer Creek	130	1
Stream 5 (south segment)	Perennial	Sugar Creek	145	18
Stream 5 (middle segment)	Perennial	Sugar Creek	185	25
Stream 5 (north segment)	Perennial	Sugar Creek	110	18
Stream 6	Intermittent	Tributary to Stream 05	225	3
Stream 7	Ephemeral	Tributary to Sandusky River	120	4
Stream 8	Intermittent	Tributary to Sandusky River	140	5
Stream 9	Ephemeral	Tributary to Stream 08	90	3
Stream 10	Ephemeral	Tributary to Stream 08	105	3
Stream 11	Ephemeral	Tributary to Stream 13	170	5
Stream 12	Intermittent	Tributary to Stream 13	170	8
Stream 13	Intermittent	Tributary to Sandusky River	230	10
Stream 14 (south segment)	Perennial	Sandusky River	115	200
Stream 14 (north segment)	Perennial	Sandusky River	115	230
Stream 15	Intermittent	Tributary to Sandusky River	120	8
Stream 16	Intermittent	Tributary to Sandusky River	1,976	6
Stream 17	Perennial	Indian Creek	120	15
Stream 18	Intermittent	Tributary to Sandusky River	195	8
Total			4,846	597

¹ Within the right of way.

² Crossed by the centerline of the right of way. Several surveyed stream boundaries were extended to the edge of the right of way during map development.

4.0 SUMMARY

Nine wetlands totaling approximately 5.2 acres were identified at the project site. All are of the palustrine habitat type and all are considered by CAI to be jurisdictional (i.e., "Waters of the U.S."). Five of the wetlands (02, 05, 07, 08, and 09) are expected to be permanently impacted by pole installation and removal for a combined wetland loss of approximately 15 square feet. The remaining four wetlands are not expected to be permanently impacted by any project activity.

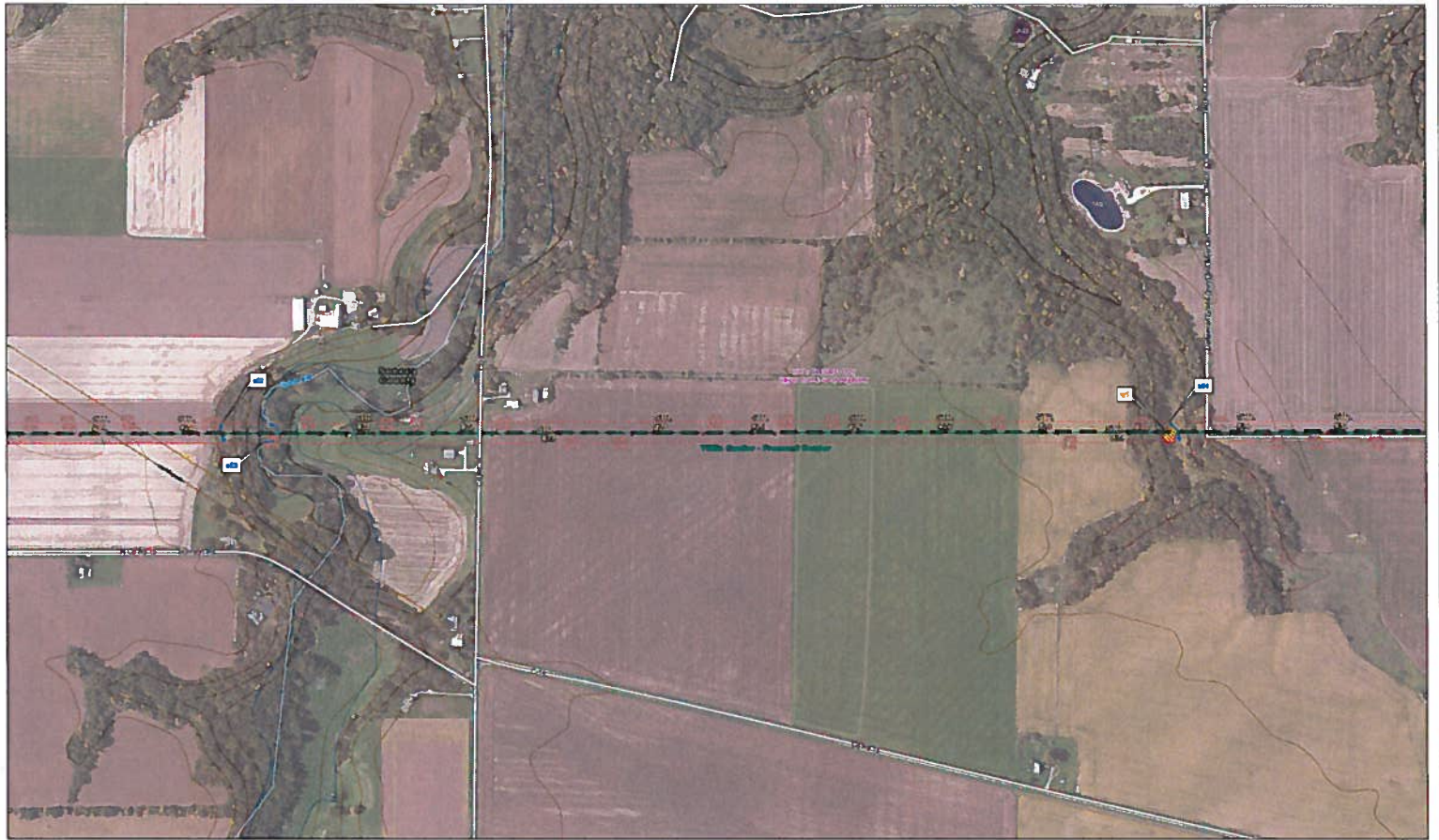
Eighteen streams were identified at the project site: four ephemeral, ten intermittent, and four perennial. The streams total approximately 597 feet in width and 4,846 feet in length within the project right of way. All of the streams are considered by CAI to be jurisdictional (i.e., "Waters of the U.S."). None of the streams are expected to be permanently impacted by any project activity.

Where temporary wetland or stream impacts are likely, erosion, runoff, and sedimentation control measures will be installed. These measures may include temporary and permanent seed, mulch, silt fence, erosion control blankets, temporary construction entrances, concrete washouts, and temporary timber mat roads. Installing the measures will help minimize stream and wetland impacts by protecting the soil surface from raindrop impact, controlling overland flow of storm water runoff, and capturing sediment before it can be discharged with storm water runoff to off-site areas. The specific location and type of each control measure to be installed will be addressed in detail in the overall Construction and Storm Water Pollution Prevention Plan (SWP3) for the project.

5.0 CONCLUSION

This report will be used to assist American Electric Power in its efforts to avoid impacting wetlands and streams as much as feasibly possible during site design and development and as part of the Letter of Notification (LON) that will be prepared by CAI and submitted to the Ohio Power Siting Board. While several existing poles are located within boundaries of delineated wetlands and several larger replacement structures will also be placed within boundaries of delineated wetlands, the combined impacts to these "Waters of the U.S." are expected to be insignificant. As a result, notification or permit applications under Sections 401 and/or 404 of the Clean Water Act are not expected to be required by either the Ohio EPA or the USACE for this project.





Legend Substation 138kV Line 138kV Line 138kV Line 138kV Line 138kV Line	Proposed Features Proposed 138kV Line Proposed 138kV Line Proposed 138kV Line Proposed 138kV Line Proposed 138kV Line	Topography & Infrastructure Topography Highway Railroad Waterway Road Pipeline Utility Line Other	Boundaries & Features Political Boundary Property Boundary Easement Right of Way Other	Legend Substation 138kV Line 138kV Line 138kV Line 138kV Line 138kV Line	Legend Substation 138kV Line 138kV Line 138kV Line 138kV Line 138kV Line	Legend Substation 138kV Line 138kV Line 138kV Line 138kV Line 138kV Line	Legend Substation 138kV Line 138kV Line 138kV Line 138kV Line 138kV Line	Legend Substation 138kV Line 138kV Line 138kV Line 138kV Line 138kV Line	Legend Substation 138kV Line 138kV Line 138kV Line 138kV Line 138kV Line
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AEP Ohio
Transmission Company
 Fremont Area Improvements
 Tiffin Center - Fremont Center
 138kV Line
 Sandusky & Seneca
 County, Ohio

Projected Coordinate System: Ohio State Plane
 Datum: North American Datum of 1983
 Projection: Lambert Conformal Conic
 Zone: North
 Linear Unit: Feet

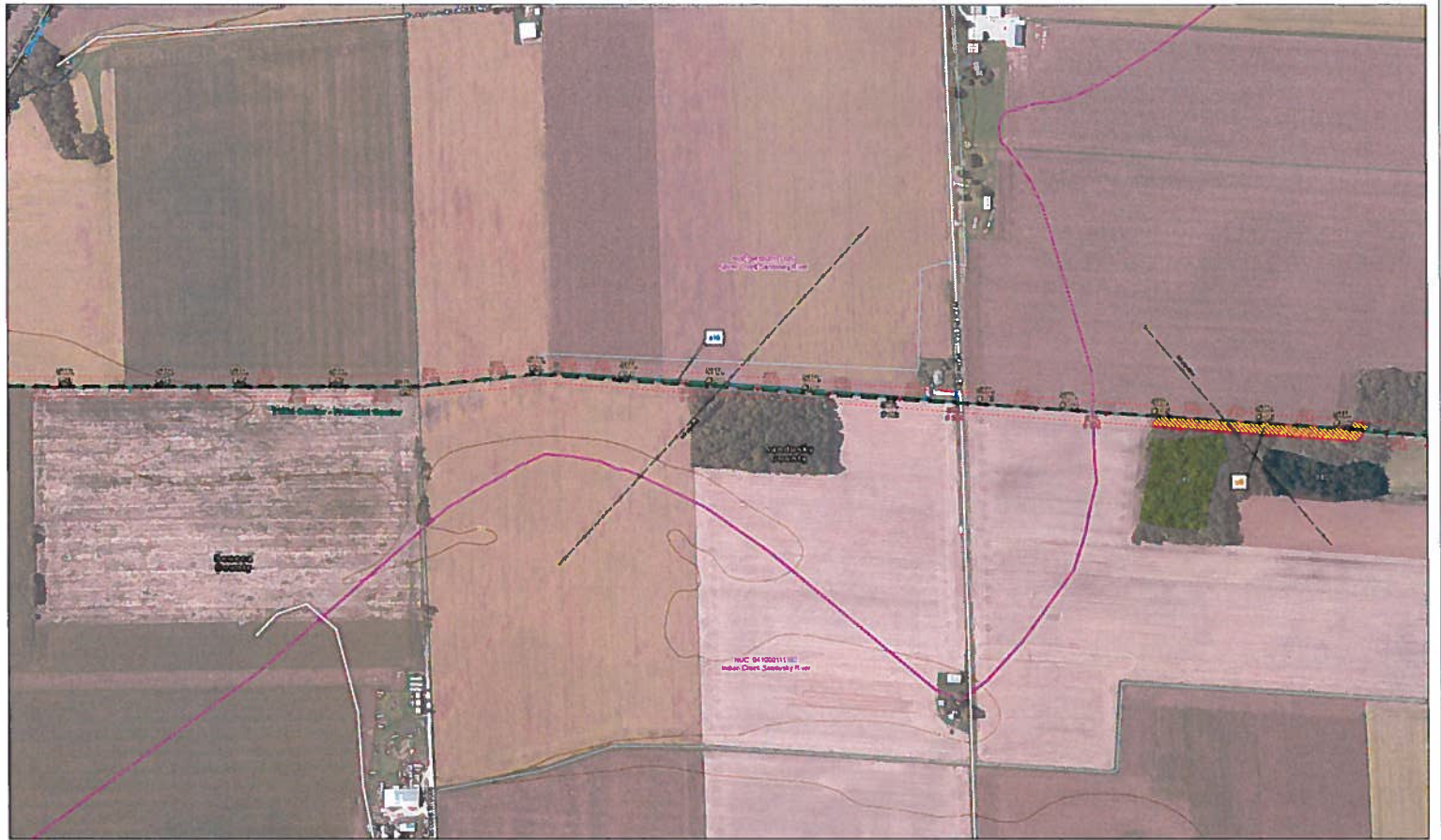


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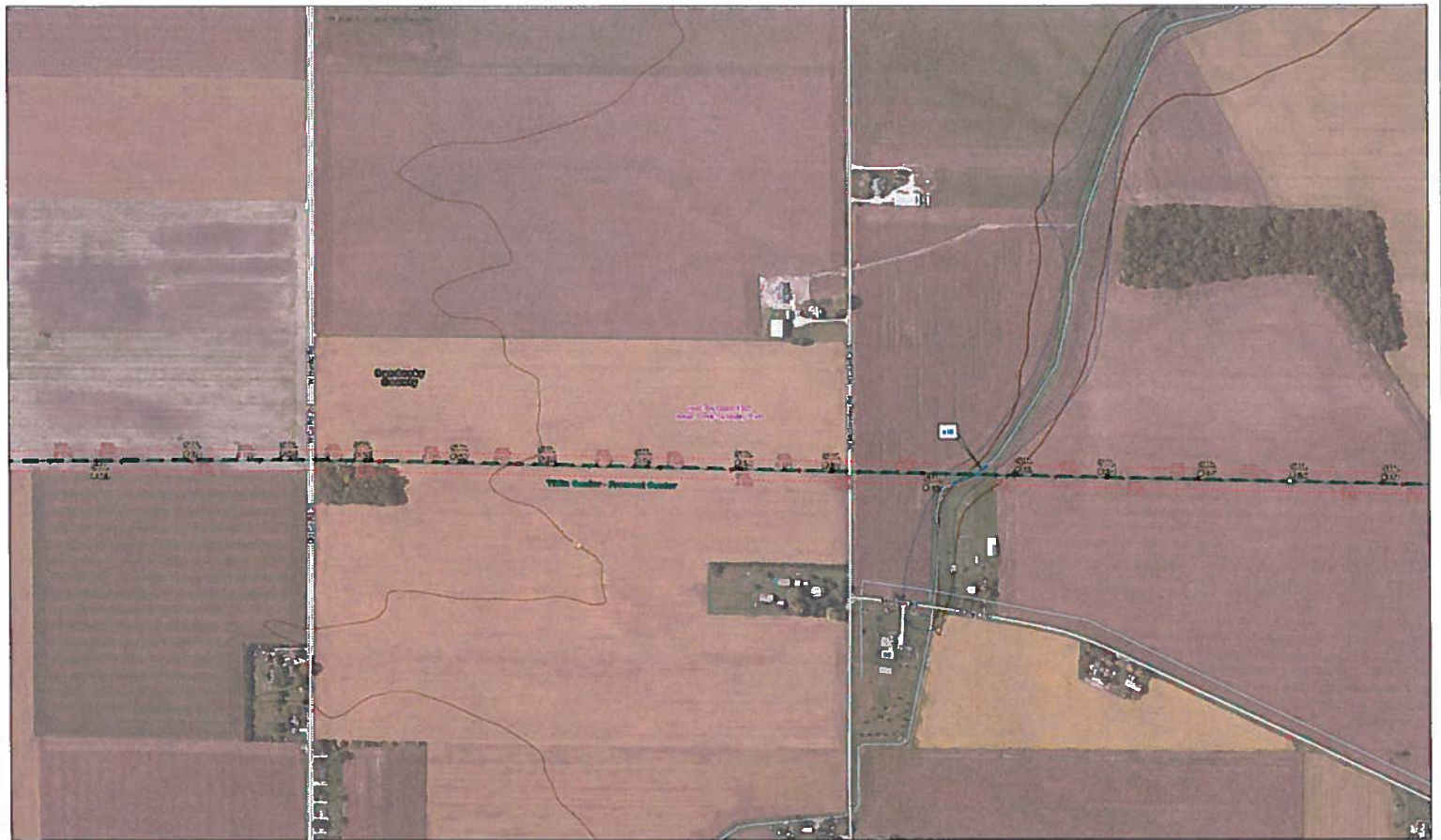
Scale: 1" = 200' (1:2,400)
 Date: 1/8/2014
 Map Sheet 02 of 10
 Commonwealth
 AMERICAN ELECTRIC POWER



Legend Substation, Distribution & Transmission Line Substation Existing 220 kV Existing 138 kV Existing 69 kV Existing 33 kV Existing 15 kV Existing 120 kV Existing 100 kV		Proposed Features Proposed Structure Proposed 138 kV	Transmission & Distribution Unimproved Improved Right-of-Way Road Overhead Line Cable (Unimproved) Street Cable (Unimproved) Street Lake Lake Shore Lake Shoreline	Utilities Gas Water Sewer Stormwater Electric Cable Fiber	Boundary & Feature Municipal County Township Hydrologic Unit Code Right of Way Property Boundary Center Point	Map Information Projected Coordinate System: Ohio State Plane Datum: North American Datum of 1983 Projection: Lambert Conformal Conic Zone: North Linear Unit: Feet	Scale Scale 1" = 200' (1:2,400) Map Sheet 05 of 10 Date: 10/20/14	Drawn DAL JEK AM5	Commonwealth AEP AMERICAN ELECTRIC POWER
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Legend Substation Existing 138 kV Existing 138 kV Existing 138 kV Existing 138 kV Existing 138 kV Existing 138 kV	Proposed Features Proposed 138 kV Proposed 138 kV Proposed 138 kV Proposed 138 kV Proposed 138 kV Proposed 138 kV	Transmission & Distribution Transmission Distribution Distribution Distribution Distribution Distribution	Boundaries & Features Boundary Boundary Boundary Boundary Boundary Boundary	Scale 1" = 200' (1:200) Map Sheet 07 of 10 Date: 10/20/14	Project Information AEP Ohio Transmission Company Fremont Area Improvements Tiffin Center - Fremont Center 138kV Line Sandusky & Seneca County, Ohio	Coordinate System Projected Coordinate System: Ohio State Plane Datum: North American Datum of 1983 Projection: Lambert Conformal Conic Zone: North Linear Unit: Feet	Map Sheet Map Sheet 07 of 10 Date: 10/20/14	Scale 1" = 200' (1:200) Map Sheet 07 of 10 Date: 10/20/14	Logos ASP AMERICAN ELECTRIC POWER COMMONWEALTH
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APPENDICIES

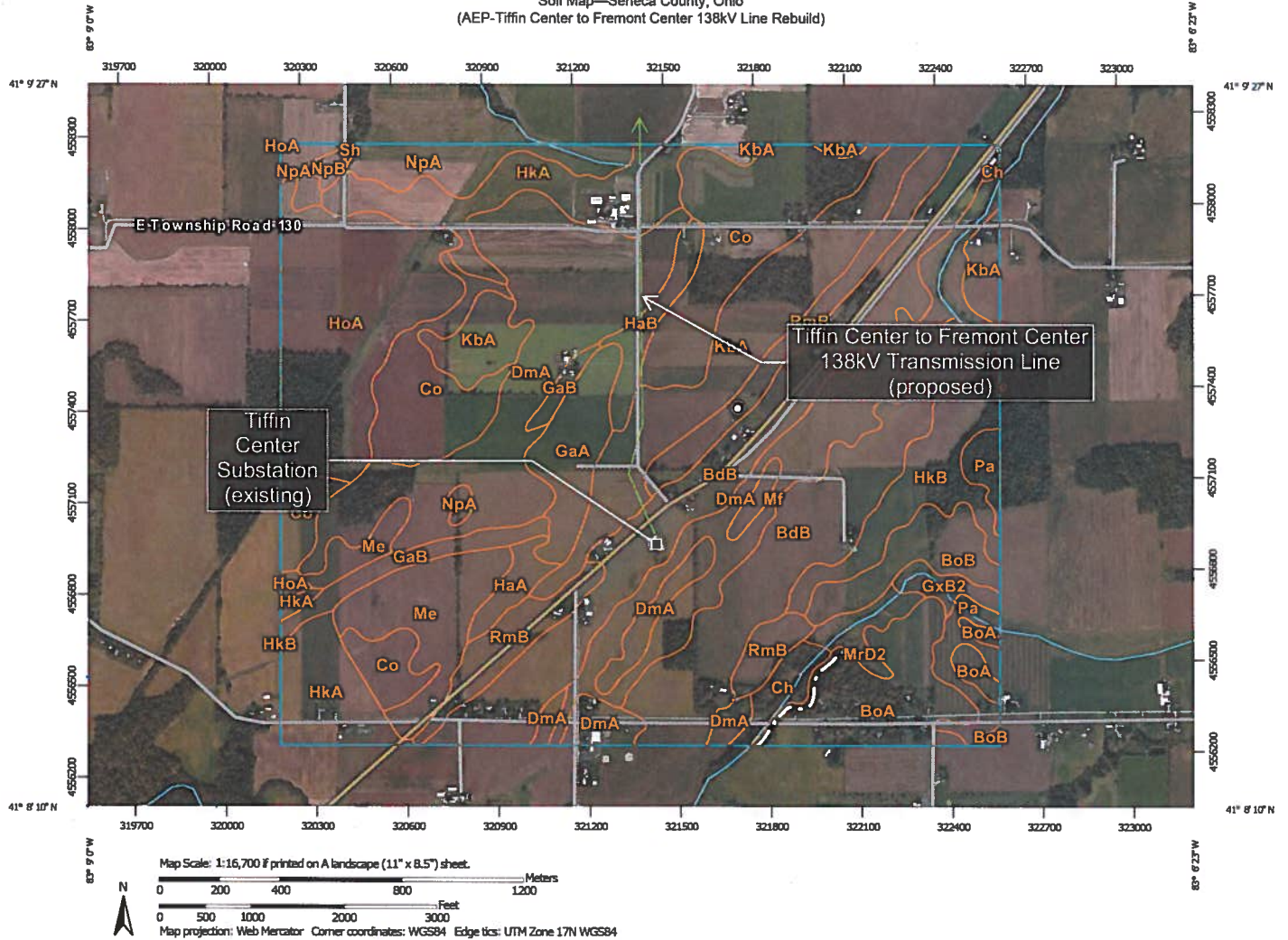
Appendix A – USDA Web Soil Survey (WSS) Map

Appendix B – Stream and Wetland Photographs

APPENDIX A

USDA Web Soil Survey (WSS) Map

Soil Map—Seneca County, Ohio
(AEP-Tiffin Center to Fremont Center 138kV Line Rebuild)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/30/2013
Page 1 of 4

Map Unit Legend

Seneca County, Ohio (OH147)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BdB	Belmore loam, 2 to 6 percent slopes	186.9	16.1%
BoA	Blount silt loam, 0 to 2 percent slopes	52.0	4.5%
BoB	Blount silt loam, 2 to 6 percent slopes	24.8	2.1%
Ch	Chagrin silt loam, occasionally flooded	10.3	0.9%
Co	Colwood silt loam	120.2	10.3%
DmA	Digby loam, 1 to 4 percent slopes	141.2	12.1%
GaA	Gallman loam, 0 to 2 percent slopes	27.0	2.3%
GaB	Gallman loam, 2 to 6 percent slopes	17.7	1.5%
GxB2	Glynwood silty clay loam, 2 to 6 percent slopes, eroded	7.2	0.6%
HaA	Haney loam, 0 to 2 percent slopes	8.5	0.7%
HaB	Haney loam, 2 to 6 percent slopes	13.7	1.2%
HkA	Haskins loam, 0 to 2 percent slopes	79.5	6.8%
HkB	Haskins loam, 2 to 6 percent slopes	38.3	3.3%
HoA	Hoytville clay loam, 0 to 1 percent slopes	92.5	8.0%
KbA	Kibbie fine sandy loam, 0 to 2 percent slopes	98.6	8.5%
Le	Lenawee silty clay loam	0.6	0.1%
Me	Merrill loam	46.4	4.0%
Mf	Millgrove loam	76.3	6.6%
MrD2	Morley silt loam, 12 to 18 percent slopes, eroded	10.2	0.9%
NpA	Nappanee silt loam, 0 to 2 percent slopes	31.0	2.7%
NpB	Nappanee silt loam, 2 to 6 percent slopes	2.6	0.2%
Pa	Pandora silt loam	19.2	1.7%
RmB	Rawson loam, 2 to 6 percent slopes	57.3	4.9%

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

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in

Case No(s). 14-0143-EL-BLN

Summary: Letter of Notification Tiffin Center Fremont Center (Part 4 of 7) electronically filed by Mr. Matthew J Satterwhite on behalf of AEP Ohio Transmission Company