



Photo Location 52. View of Stream 26 (Sycamore Creek). Photograph taken facing downstream/west.



Photo Location 52. View of substrates of Stream 26 (Sycamore Creek).





Photo Location 53. View of Stream 27. Photograph taken facing upstream/south.



Photo Location 53. View of Stream 27. Photograph taken facing downstream/north.





Photo Location 53. View of substrates of Stream 27.



Photo Location 54. View of Wetland 19 at wetland determination sample point SP 44.

Photograph taken facing north.





Photo Location 54. View of Wetland 19 at wetland determination sample point SP 44.

Photograph taken facing east.



Photo Location 54. View of Wetland 19 at wetland determination sample point SP 44.

Photograph taken facing south.





Photo Location 54. View of Wetland 19 at wetland determination sample point SP 44.

Photograph taken facing west.



Photo Location 55. View of Stream 28 (Delano Run). Photograph taken facing upstream/west.





Photo Location 55. View of Stream 28 (Delano Run). Photograph taken facing downstream/east.



Photo Location 55. View of substrates of Stream 28 (Delano Run).





Photo Location 56. View of Wetland 20 at wetland determination sample point SP 46.

Photograph taken facing north.



Photo Location 56. View of Wetland 20 at wetland determination sample point SP 46.

Photograph taken facing east.





Photo Location 56. View of Wetland 20 at wetland determination sample point SP 46.

Photograph taken facing south.



Photo Location 56. View of Wetland 20 at wetland determination sample point SP 46.

Photograph taken facing west.





Photo Location 57. View of Wetland 21 at wetland determination sample point SP 48. Photograph taken facing north.



Photo Location 57. View of Wetland 21 at wetland determination sample point SP 48. Photograph taken facing east.





Photo Location 57. View of Wetland 21 at wetland determination sample point SP 48. Photograph taken facing south.



Photo Location 57. View of Wetland 21 at wetland determination sample point SP 48.

Photograph taken facing west.





Photo Location 58. View of Stream 29. Photograph taken facing upstream/northwest.



Photo Location 58. View of Stream 29. Photograph taken facing downstream/southeast.





Photo Location 58. View of substrates of Stream 29.



Photo Location 59. View of Wetland 22 at wetland determination sample point SP 50. Photograph taken facing north.





Photo Location 59. View of Wetland 22 at wetland determination sample point SP 50. Photograph taken facing east.



Photo Location 59. View of Wetland 22 at wetland determination sample point SP 50. Photograph taken facing south.





Photo Location 59. View of Wetland 22 at wetland determination sample point SP 50. Photograph taken facing west.



Photo Location 60. View of Stream 30. Photograph taken facing upstream/west.





Photo Location 60. View of Stream 30. Photograph taken facing downstream/east.



Photo Location 60. View of substrates of Stream 30.





Photo Location 61. View of Stream 31. Photograph taken facing upstream/west.



Photo Location 61. View of Stream 31. Photograph taken facing downstream/east.





Photo Location 61. View of substrates of Stream 31.



Photo Location 62. View of Stream 32. Photograph taken facing upstream/west.





Photo Location 62. View of Stream 32. Photograph taken facing downstream/east.



Photo Location 62. View of substrates of Stream 32.





Photo Location 63. View of Stream 33. Photograph taken facing upstream/north.



Photo Location 63. View of Stream 33. Photograph taken facing downstream/south.





Photo Location 63. View of substrates of Stream 33.



Photo Location 64. View of Wetland 23 at wetland determination sample point SP 52. Photograph taken facing north.





Photo Location 64. View of Wetland 23 at wetland determination sample point SP 52. Photograph taken facing east.



Photo Location 64. View of Wetland 23 at wetland determination sample point SP 52. Photograph taken facing south.





Photo Location 64. View of Wetland 23 at wetland determination sample point SP 52. Photograph taken facing west.



Photo Location 64. View of soil test pit at wetland determination sample point SP 52 at Wetland 23.





Photo Location 65. View of Stream 34. Photograph taken facing upstream/west.



Photo Location 65. View of Stream 34. Photograph taken facing downstream/east.





Photo Location 65. View of substrates of Stream 34.



Photo Location 66. View of Wetland 24 at wetland determination sample point SP 54. Photograph taken facing north.





Photo Location 66. View of Wetland 24 at wetland determination sample point SP 54. Photograph taken facing east.



Photo Location 66. View of Wetland 24 at wetland determination sample point SP 54. Photograph taken facing south.





Photo Location 66. View of Wetland 24 at wetland determination sample point SP 54. Photograph taken facing west.



Photo Location 66. View of soil test pit at wetland determination sample point SP 54 at Wetland 24.





Photo Location 67. View of Open Water 3. Photograph taken facing southeast.



Photo Location 67. View of Open Water 3. Photograph taken facing south.





Photo Location 68. View of Wetland 25 at wetland determination sample point SP 56.

Photograph taken facing north.



Photo Location 68. View of Wetland 25 at wetland determination sample point SP 56. Photograph taken facing east.





Photo Location 68. View of Wetland 25 at wetland determination sample point SP 56. Photograph taken facing south.



Photo Location 68. View of Wetland 25 at wetland determination sample point SP 56. Photograph taken facing west.





Photo Location 68. View of soil test pit at wetland determination sample point SP 56 at Wetland 25.



Photo Location 69. View of Stream 35. Photograph taken facing upstream/west.





Photo Location 69. View of Stream 35. Photograph taken facing downstream/east.



Photo Location 69. View of substrates of Stream 35.





Photo Location 70. View of Stream 36. Photograph taken facing upstream/southeast.



Photo Location 70. View of Stream 36. Photograph taken facing downstream/northwest.





Photo Location 70. View of substrates of Stream 36.



Photo Location 71. View of PSS wetland portion of Wetland 26 at wetland determination sample point SP 60. Photograph taken facing north.





Photo Location 71. View of PSS wetland portion of Wetland 26 at wetland determination sample point SP 60. Photograph taken facing east.



Photo Location 71. View of PSS wetland portion of Wetland 26 at wetland determination sample point SP 60. Photograph taken facing south.





Photo Location 71. View of PSS wetland portion of Wetland 26 at wetland determination sample point SP 60. Photograph taken facing west.



Photo Location 71. View of soil test pit at wetland determination sample point SP 60 at Wetland 26.





Photo Location 72. View of PEM wetland portion of Wetland 26 at wetland determination sample point SP 58. Photograph taken facing north.



Photo Location 72. View of PEM wetland portion of Wetland 26 at wetland determination sample point SP 58. Photograph taken facing east.





Photo Location 72. View of PEM wetland portion of Wetland 26 at wetland determination sample point SP 58. Photograph taken facing south.



Photo Location 72. View of PEM wetland portion of Wetland 26 at wetland determination sample point SP 58. Photograph taken facing west.





Photo Location 72. View of soil test pit at wetland determination sample point SP 58 and Wetland 26.



Photo Location 73. View of Stream 37. Photograph taken facing upstream/east.





Photo Location 73. View of Stream 37. Photograph taken facing downstream/west.



Photo Location 73. View of substrates of Stream 37.





Photo Location 74. View of Stream 38. Photograph taken facing upstream/west.



Photo Location 74. View of Stream 38. Photograph taken facing downstream/east.





Photo Location 74. View of substrates of Stream 38.



Photo Location 75. View of upland (old field habitat) at wetland determination sample point SP 61. Photograph taken facing east.





Photo Location 75. View of upland (old field habitat) at wetland determination sample point SP 61. Photograph taken facing north.



Photo Location 76. View of upland (hayfield habitat) at wetland determination sample point SP 62. Photograph taken facing east.





Photo Location 76. View of upland (hayfield habitat) at wetland determination sample point SP 62. Photograph taken facing south.



Photo Location 77. View of Stream 39. Photograph taken facing upstream/northwest.





Photo Location 77. View of Stream 39. Photograph taken facing downstream/southeast.



Photo Location 77. View of substrates of Stream 39.





Photo Location 78. View of Stream 40. Photograph taken facing upstream/south.



Photo Location 78. View of Stream 40. Photograph taken facing downstream/north.





Photo Location 78. View of substrates of Stream 40.



Photo Location 79. View of Stream 41. Photograph taken facing upstream/north.





Photo Location 79. View of Stream 41. Photograph taken facing downstream/south.



Photo Location 79. View of substrates of Stream 41.





Photo Location 80. View of Stream 4 from proposed access road. Photograph taken facing upstream/west.



Photo Location 80. View of Stream 4 from proposed access road. Photograph taken facing downstream/east.





Photo Location 81. View of Stream 28 (Delano Run). Photograph taken facing upstream/west.



Photo Location 81. View of Stream 28 (Delano Run). Photograph taken facing downstream/east.





Photo Location 81. View of substrates of Stream 28 (Delano Run).



Photo Location 82. View of Stream 23 (Chambers Creek) at proposed access road crossing.

Photograph taken facing upstream/north.





Photo Location 82. View of Stream 23 (Chambers Creek) at proposed access road crossing.

Photograph taken facing downstream/south.



Photo Location 82. View of substrates of Stream 23 (Chambers Creek) at proposed access road crossing.





Photo Location 83. View of upland drainage feature at proposed access road crossing.

Photograph taken facing north

NORTH NEWARK-SHARP ROAD 138 KV TRANSMISSION LINE REBUILD PROJECT ECOLOGICAL RESOURCES INVENTORY REPORT

April 23, 2021

C.2 HABITAT PHOTOGRAPHS







Photo Location 1. Representative view of maintained lawn and hayfield habitats. Photograph taken facing north.



Photo Location 2. Representative view of agricultural field. Photograph taken facing north.





Photo Location 3. Representative view of old field habitat. Photograph taken facing north.



Photo Location 3. Representative view of pasture habitat. Photograph taken facing northeast.





Photo Location 4. Representative view of agricultural field. Photograph taken facing south.



Photo Location 5. Representative view of pasture habitat. Photograph taken facing northwest.





Photo Location 6. Representative view of maintained lawn habitat. Photograph taken facing east.



Photo Location 7. Representative view of early successional deciduous forest habitat.

Photograph taken facing north.





Photo Location 8. Representative view of early successional deciduous forest habitat.

Photograph taken facing northeast.



Photo Location 9. Representative view of industrial land at Sharp Road Station. Photograph taken facing north.





Photo Location 10. Representative view of potential bat roost tree at edge of agricultural field.



Photo Location 11. Representative view of old field habitat. Photograph taken facing south.





Photo Location 12. Representative view of pasture habitat and mixed early successional/second growth deciduous forest habitat. Photograph taken facing northwest.



Photo Location 13. Representative view of proposed access road through industrial land.

Photograph taken facing east.





Photo Location 14. Representative view of hayfield habitat and proposed access road.

Photograph taken facing south.



Photo Location 15. Representative view of proposed access road and agricultural field habitat. Photograph taken facing south.





Photo Location 16. Representative view of upland drainage feature and agricultural field habitat at proposed access road. Photograph taken facing south.

April 23, 2021

Appendix D DATA FORMS

D.1 WETLAND DETERMINATION DATA FORMS





Project/Site: Applicant:	American E	- Sharp Road 138 kV Tr E <mark>lectric Power (AE</mark> F		Line Reb	uild Project		Stantec Project #:	193707328		Date: County:	12/12/19 Licking	
nvestigator #1				Investi	gator #2:					State:	Ohio	
Soil Unit:	Pits, grave						IWI/WWI Classification:				Wetland 1	1
_andform:	Depression				al Relief:					Sample Point:		
Slope (%):	0		40.08975		ongitude:				WGS 84	Community ID:		
		litions on the site ty				(If no, expla		Yes □	No	Section:	N/A	
Are Vegetation	ı□ , Soil □ ,	or Hydrology 🗀 sig	gnificantly	/ disturb	ed?		Are normal circumstar	nces present	?	Township:	N/A	
Are Vegetation	<u> </u>	or Hydrology <u> </u>	turally pr	oblemat	ic?		Yes	NÐ		Range:	N/A	Dir: N/A
SUMMARY OF	FINDINGS											
Hydrophytic Ve	egetation Pre	sent?		□ Yes	□ No			Hydric Soils	Present?		·	Yes □ N
Vetland Hydro	loav Present	?		□ Yes	□ No					Within A Wetla	and? "	Yes • N
Remarks:												
YDROLOGY												
			e :		-4	4 \-						
-		itors (Check here i	i indicato	rs are n	ot presen	τ ⊔):			Cocondon			
<u>Primary</u> □		Water			B9 - Wate	ar-Stained	Leaves		Secondary:	B6 - Surface Sc	il Cracks	
_	A2 - High Wa				B13 - Aqu				_	B10 - Drainage		
	A3 - Saturation				B14 - True					C2 - Dry-Seaso		ole
	B1 - Water M				C1 - Hydr					C8 - Crayfish B	urrows	
	B2 - Sedimer						spheres on Living Roots			C9 - Saturation		
	B3 - Drift Dep						educed Iron			D1 - Stunted or		ants
	B4 - Algal Ma B5 - Iron Dep				Co - Rece		duction in Tilled Soils			D2 - Geomorph D5 - FAC-Neutr		
		on Visible on Aerial Im	agery		D9 - Gaud					D3 - 1 AC-Neuti	ai i est	
		Vegetated Concave			Other (Ex							
Surface Water	Present?	Yes □ No	Depth:	2	(in.)			Wetland Hy	drology Pr	esent?	Yes a	Nο
Nater Table Pr	resent?	Yes No	Depth: Depth:	2	(in.) (in.)			Wetland Hy	drology Pr	resent?	Yes □ I	No
Surface Water Water Table Pr Saturation Pres Describe Record	resent? sent?	□ Yes □ No □ Yes □ No	Depth:	2	(in.) (in.)	s inspecti	ons). if available:	Wetland Hy	drology Pr	resent?	Yes □ I	No
Water Table Presortion Presortibe Record	resent? sent?	□ Yes □ No	Depth:	2	(in.) (in.)	s inspecti	ons), if available:	Wetland Hy		resent?	Yes □ I	No
Water Table Pr Saturation Pres	resent? sent?	□ Yes □ No □ Yes □ No	Depth:	2	(in.) (in.)	s inspecti	ons), if available:	Wetland Hy		resent?	Yes □ I	No
Water Table Pr Saturation Pres Describe Record Remarks:	resent? sent?	□ Yes □ No □ Yes □ No	Depth:	2	(in.) (in.)	s inspecti	ons), if available:	Wetland Hy		resent?	Yes □ I	No .
Water Table Presented Pres	resent? sent? ded Data (stre	□ Yes □ No □ Yes □ No am gauge, monitorin	Depth:	2	(in.) (in.)	s inspecti	ons), if available:	Wetland Hy		resent?	Yes □ I	No
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Project/Site: North Newark- Sharp Road 138 kV Line Rebuild Project Wetland ID: Wetland 1 Sample Point: SP 1 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 100 --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 100 (A) 100 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Typha angustifolia 98 OBL * Indicators of hydric soil and wetland hydrology must be 2. Epilobium coloratum 2 Ν OBL present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present

Yes

No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:		



Project/Site:	North Newarl	k- Sharp Road 138 kV	Transmiss	sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	12/12/19
Applicant:	American E	Electric Power (AEP	²)							County:	Licking
Investigator #1:	Aaron Kwo	lek		Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Pits, grave					١	WI/WWI Classification:			Wetland ID:	Wetland 1
Landform:	Rise			Loc	al Relief:	Convex				Sample Point:	SP 2
Slope (%):	0	Latitude:	40.08984	L	ongitude:	-82.416	35	Datum:	WGS 84	Community ID:	
		litions on the site ty						☑ Yes □	No	Section:	N/A
		or Hydrology □ sig				(11 110, 03,p10	Are normal circumsta		_	Township:	N/A
		or Hydrology □ na					✓ Yes	Ne Ne		Range:	N/A Dir: N/A
SUMMARY OF		or riyurology – ria	turally pr	oblemat	10 !		100	140		Range.	N/A DII. N/A
		10									- V N
Hydrophytic Ve	9			□ Yes				Hydric Soils			□ Yes □ No
Wetland Hydrol	ogy Present	?		Yes	□ No			Is This Samp	oling Point \	Within A Wetla	and? • Yes • No
Remarks:											
HYDROLOGY											
Wetland Hydro	ology Indica	ators (Check here it	f indicato	rs are n	nt nresen	t					
Primary		itors (Oncor nord	illuloato	ns arc in	ot presen	. –).			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface So	oil Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation	on			B14 - Tru	e Aquatic I	Plants			C2 - Dry-Seaso	n Water Table
	B1 - Water M				C1 - Hydr					C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron				Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils		_	D2 - Geomorph	
0 1	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	ral Test
		on Visible on Aerial Im			D9 - Gau						
<u> </u>	Bo - Sparsely	Vegetated Concave S	suriace	Ц	Other (Ex	piain in Re	emarks)				
=											
Field Observat											
Surface Water	Present?	□ Yes 🗵 No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pr	esent?	□ Yes □ No	Depth:		(in.)			Wedana riy	arology i i	COCIIC:	103 140
Saturation Pres	ent?	□ Yes □ No	Depth:		(in.)						
Describe Record	nd Data (atra	., .									
			a woll ac	rial photo	c proviou	c incoacti	one) if available:		NI/A		
	eu Data (Sile	am gauge, monitorino	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
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Remarks:	·		g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks: SOILS Map Unit Name	:	Pits, gravel		·		·	,				
Remarks: SOILS Map Unit Name	:	Pits, gravel		·		·	ion, D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Grai		ore Lining, M=Matrix)	
Remarks: SOILS Map Unit Name	:	Pits, gravel		·	indicators.) (Typ	·	ion, D=Depletion, RM=Reduced Matrix, CS=0			ore Lining, M=Matrix)	Texture
Remarks: SOILS Map Unit Name Profile Descrip	: tion (Describe to	Pits, gravel	dicator or confirm	n the absence of	indicators.) (Typ	·	ion, D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Grai		ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 3 Soil Field In A1- Histosol A2 - Histic E	Pits, gravel the depth needed to document the inc Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/3	% 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	covered/Coated Sand Grail Experiment of the Coated Sand Grail Cox Features % Indicators	Type for Problem A16 - Coast S7 - Dark St	Location	(e.g. clay, sand, loam) fill
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 3 Soil Field In A1- Histosol A3 - Black Hi	Pits, gravel he depth needed to document the inc Horizon 1 dicators (check he objeed on stice on Sulfide	Color 10YR	Matrix (Moist) 4/3 cators al	%	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redo Color (Moist)	Covered/Coated Sand Grail OX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fill es
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 3 Soil Field In A1- Histosol A2- Histosol A4- Hydroge A5- Stratifier A10- 2 cm W A11- Deplet A12- Thick E S1- Sandy M S3- 5 cm Mt	Pits, gravel he depth needed to document the inc Horizon 1 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface Ouck Mineral ucky Peat or Peat	Color 10YR	Matrix (Moist) 4/3	" % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red of Color (Moist)	Covered/Coated Sand Grail DX Features % Indicators Indicators of hydrophyte	Type	Location	(e.g. clay, sand, loam) fill es urface
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Additional Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Line Rebuild Project Wetland ID: Wetland 1 Sample Point: SP 2 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = FAC spp. x 3 = x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 80 UPL spp. x 5 = 25 2 3. Total 100 (A) 390 (B) --4. 5. Prevalence Index = B/A = 3.900 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes ☑ No Yes Morphological Adaptations (Explain) * ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Dipsacus fullonum Ν **FACU** * Indicators of hydric soil and wetland hydrology must be 2. 5 Ν UPL Daucus carota present, unless disturbed or problematic. 3. Ν **FACU** Achillea millefolium 5 40 **FACU Definitions of Vegetation Strata:** 4. Schedonorus arundinaceus 5. Dactylis glomerata 15 **FACU** 6 Trifolium pratense 5 Ν **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. **FACU** 3 N Plantago lanceolata 8. Solidago canadensis 5 Ν **FACU** Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. Melilotus officinalis 5 Ν **FACU** 10. Poa pratensis 15 FAC 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks:

Additional Nomarks.		



Project/Site: Applicant:	American E	Sharp Road 138 kV T Electric Power (AEI					Stantec Project #:	193707328		Date: County:	12/12/19 Licking	
nvestigator #1:				Invest	gator #2:					State:	Ohio	
Soil Unit: Landform:	Pits, gravel Depression			Loc	al Daliaf		NWI/WWI Classification:			Wetland ID: Sample Point:	Wetland 2	
Slope (%):	Depression				al Relief:			Dotum:	WGS 84			
			40.09147		ongitude:					Community ID:		
		itions on the site t				(If no, expla		100	No No	Section:	N/A	
		or Hydrology 🗆 si					Are normal circumsta	•	?	Township:	N/A	
		or Hydrology 🗀 🛚 na	aturally pr	oblemat	ic?		<u> </u>	N∋		Range:	N/A D	Dir: N/A
SUMMARY OF I	FINDINGS											
Hydrophytic Veg	getation Pres	sent?		Yes	□ No			Hydric Soils	Present?		□ }	res □ No
Wetland Hydrological	ogy Present	?		Yes	□ No			Is This Sam	pling Point	Within A Wetla	and? 🇖 🗅	∕es • No
Remarks:												
IYDROLOGY												
	alagu Indiag	toro (Chaok bara	if indicate	ro oro n	ot procen	+ - \.						
Primary:		itors (Check here	II Indicato	ns are n	ot presen	ı. ').			Secondary			
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves		Secondary.	B6 - Surface So	oil Cracks	
	A2 - High Wa					uatic Fauna				B10 - Drainage		
	A3 - Saturation					e Aquatic I				C2 - Dry-Seaso		le
	B1 - Water M	arks			C1 - Hydr	ogen Sulfi	de Odor			C8 - Crayfish B	urrows	
	B2 - Sedimer						spheres on Living Roots		_	C9 - Saturation		
	B3 - Drift Dep						educed Iron			D1 - Stunted or		ants
	B4 - Algal Ma B5 - Iron Dep				C6 - Rece		duction in Tilled Soils		2	D2 - Geomorph D5 - FAC-Neutr		
		osits on Visible on Aerial In	nagery			wuck Sun ge or Well				PO - FAC-Meut	ai i est	
		Vegetated Concave			Other (Ex							
					,	•	,					
Field Observat	ions:											
Surface Water F	Present?	☑ Yes □ No	Depth:	3	(in.)			Watland Hy	dralam, D	occut?	Yes □ N	do
Matas Table Dec	10	E 1/ E 1/	Depth:	0	(in.)			Wetland Hy	arology Pi	esentr	res ii	NO
Water Table Pre	esent?	Yes □ No	Debin.	U								
Saturation Pres		Yes No			` '							
Saturation Pres	ent?	□ Yes □ No	Depth:	0	(in.)		and if any lighter		NI/A			
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Saturation Preso Describe Recorde Remarks:	ent?	□ Yes □ No	Depth:	0	(in.)	s inspecti	ons), if available:		N/A			
Saturation Presonantesion Saturation Presonates Saturation Presonantes Saturation Presonates Saturation Presonate	ent? ed Data (stre	□ Yes □ No am gauge, monitorir	Depth:	0	(in.)	s inspecti	ons), if available:		N/A			
Saturation Presoner P	ent? ed Data (stre	□ Yes □ No am gauge, monitorin Pits, gravel	Depth:	0 rial photo	(in.)							
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Saturation Presonation Pres	ent? ed Data (stre	□ Yes □ No am gauge, monitorin Pits, gravel	Depth:	orial photo	(in.)		. ion, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix) Location	_	exture sand, loar
Saturation Presonation Presona	ent? ed Data (stre	Yes No am gauge, monitoring Pits, gravel he depth needed to document the in	Depth:	orial photo	(in.)		ion, D=Depletion, RM=Reduced Matrix, CS= Redu	ox Features	ains; Location: PL=P		(e.g. clay,	
Saturation Presonation Presona	ent? ed Data (stre	■ Yes	Depth: ng well, ae	orial photo	(in.) s, previou	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features %	ains; Location: PL=P	Location	(e.g. clay,	sand, loai
Saturation Press Describe Recorde Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? Ention (Describe to the Bottom Depth 16	Pits, gravel he depth needed to document the in Horizon 1	Depth: ng well, ae ndicator or confirm Color 10YR	on the absence of Matrix (Moist) 2/1	(in.) s, previou indicators.) (Typ % 100	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist)	ox Features %	Type	Location 	(e.g. clay,	sand, loai nuck
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Saturation Press Describe Records Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (stre tion (Describe to in Depth 16	Pits, gravel Horizon 1 No No No No Am gauge, monitoring Pits, gravel Horizon 1	Depth: ng well, ae Color 10YR	n the absence of Matrix (Moist)	(in.) ss, previou indicators.) (Typ % 100	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features	Type	Location	(e.g. clay,	sand, loai nuck
Saturation Press Describe Records Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (stre tion (Describe to to Depth 16	Pits, gravel Horizon 1	Depth: ng well, ae Color 10YR	nthe absence of Matrix (Moist) 2/1	(in.) ss, previou indicators.) (Typ % 100	se: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist)	ox Features	Type	Location	(e.g. clay,	sand, loai nuck
Saturation Press Describe Records Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (stre tion (Describe to in Depth 16	Pits, gravel Horizon 1 No No No No Am gauge, monitoring Pits, gravel Horizon 1	Depth: ng well, ae Color 10YR	n the absence of Matrix (Moist)	(in.) ss, previou indicators.) (Typ % 100	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features	Type	Location	(e.g. clay,	sand, loai nuck
Saturation Press Describe Records Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (stre tion (Describe to to Depth 16	Pits, gravel Horizon 1	Depth: ng well, ae Color 10YR	nthe absence of Matrix (Moist) 2/1	(in.) ss, previou indicators.) (Typ % 100	se: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features	Type	Location	(e.g. clay,	sand, loai nuck
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Saturation Press Describe Records Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (stre tion (Describe to it) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	Pits, gravel Horizon 1 dicators (check hopipedon	Depth: ng well, ae Color 10YR	nthe absence of Matrix (Moist) 2/1	(in.) s, previou indicators.) (Typ % 100	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS=	ox Features %	Type	Location	(e.g. clay,	sand, loa nuck
Saturation Press Describe Recorde Remarks: OILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (stre : tion (Describe to 1) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histot A3 - Black Hi	Pits, gravel Horizon 1 dicators (check hoppedon stice)	Depth: ng well, ae Color 10YR	nthe absence of Matrix (Moist) 2/1 cators at	(in.) s, previou indicators.) (Typ % 100 e not pree \$4 - Sanc \$5 - Sanc \$6 - Strip	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features % Indicators	Type s for Probler A16 - Coasts S7 - Dark S F12 - Iron-N	Location	(e.g. clay,	sand, loa nuck
Saturation Press Describe Recorde Remarks: FOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (stre tition (Describe to the total streem) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eç A3 - Black Hi A4 - Hydroge	Pits, gravel he depth needed to document the in Horizon 1 dicators (check hobipedon stic in Sulfide	Depth: ng well, ae Color 10YR	nthe absence of Matrix (Moist) 2/1 cators ar	(in.) s, previou indicators.) (Typ % 100 e not pre \$4 - Sanc \$5 - Sanc \$6 - Strip F1 - Loan	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features % Indicators	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-h TF12 - Very	Location	(e.g. clay,	sand, loa nuck
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Saturation Press Describe Records Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric \$	ent? ed Data (stre tion (Describe to	Pits, gravel Horizon 1 dicators (check hoppedon stic in Sulfide it Layers luck	Depth: ng well, ae Color 10YR ere if india	nthe absence of Matrix (Moist) 2/1	(in.) s, previou indicators.) (Typ % 100	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS=	ox Features % Indicators	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-h TF12 - Very	Location	(e.g. clay,	sand, loa nuck
Saturation Press Describe Recorde Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (stre : tion (Describe to the continuation of the	Pits, gravel Pits, gravel Horizon 1 dicators (check hoppedon stic on Sulfide de Layers duck and Below Dark Surface and Below	Depth: ng well, ae Color 10YR ere if india	nthe absence of Matrix (Moist) 2/1 cators ar	(in.) s, previou indicators) (Typ % 100	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)): Matrix Matrix K rface	ox Features % Indicators	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-h TF12 - Very	Location	(e.g. clay,	sand, loa nuck
Saturation Press Describe Recorde Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (stre : tion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2- Histic Ep A3- Black Hi A4- Hydroge A5- Stratifier A10- 2 cm M A11- Deplete A12- Thick D	Pits, gravel Pits, gravel Horizon 1 dicators (check hoppedon stic in Sulfide I Layers luck ad Below Dark Surface bark Surface)	Depth: ng well, ae Color 10YR ere if india	on the absence of Matrix (Moist) 2/1 cators al	(in.) s, previou indicators.) (Typ % 100 en not pre \$4 - Sanc \$5 - Sanc \$5 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Deply F6 - Red F7 - Deply	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features % Indicators	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-h TF12 - Very	Location	(e.g. clay,	sand, loa nuck
Saturation Press Describe Recorde Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (stre tion (Describe to	Pits, gravel he depth needed to document the in Horizon 1 dicators (check hobipedon stic in Sulfide di Layers luck elle de luck Mineral	Depth: ng well, ae Color 10YR ere if india	nthe absence of Matrix (Moist) 2/1 cators ar	(in.) s, previou indicators.) (Typ % 100 en not pre \$4 - Sanc \$5 - Sanc \$5 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Deply F6 - Red F7 - Deply	ee: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features % Indicators	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expl:	Location	es es urface	sand, loa
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Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 2 Sample Point: SP 3 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. **Prevalence Index Worksheet** 8. --9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 100 --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 100 (A) 100 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Typha angustifolia 100 OBL * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5.

Additional Remarks:		

Total Cover =

Remarks:

0



Saturation Pres		□ Yes □ No	Depth:	rial photo	(in.)	e inenecti	one) if available:		Ν/Δ			
				rial nhoto	. ,	s inspecti	ons) if available		N/A			
Describe Records	ed Data (stre			rial photo	. ,	s inspecti	ons) if available:		N/A			
Describe Recorde	ed Data (stre	am gauge, monitorin	g well. ae	rial photo	s, previou	s inspecti	ons), if available:		N/A			
Describe Recorde	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A			
Describe Recorde	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A			
	ou Data (SITE	am gauge, monitorm	y well, ael	ιιαι μιιυίο	s, previou	a mapecu	onoj, ii avaliable.		14//			_
D 1												
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SOILS Map Unit Name		Pits, gravel	dicator or confirm	the absence of	indicators.) (Typ	pe: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Grai	ins; Location: PL=Po	ere Lining, M=Matrix)		
SOILS Map Unit Name Profile Descrip			dicator or confirm	the absence of		ne: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red	Covered/Coated Sand Grai	ins; Location: PL=Po	rre Lining, M=Matrix)	Texture	
SOILS Map Unit Name Profile Descrip Top	Bottom	he depth needed to document the inc		Matrix	ı	oe: C=Concentrat	Red	ox Features	ı	T	Texture (e.g. clay, sand, loar	m)
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth		Color	Matrix (Moist)	%	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grai OX Features %	Type	re Lining, M=Matrix) Location	(e.g. clay, sand, loa	m)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	he depth needed to document the ind Horizon	Color 10YR	Matrix (Moist) 4/1	% 30		Red Color (Moist)	ox Features % 	Type 	Location 	(e.g. clay, sand, loai	m)
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SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	He depth needed to document the inc Horizon 1 1	Color 10YR 10YR 10YR	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30		Red Color (Moist)	%	Type	Location 	(e.g. clay, sand, loai fill/clay fill/clay fill/clay	m)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Horizon 1 1 1	Color 10YR 10YR 10YR	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30 	 	Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay	m)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Horizon 1 1 1	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30 		Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
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SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Horizon 1 1 1	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30 		Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0	Partial Describe to Bottom Depth 16	Horizon 1 1 1	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4 	% 30 40 30	 	Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In	Horizon 1 1 1	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4 cators ar	% 30 40 30 re not pre	esent 🗷	Red Color (Moist)	ox Features	Type of for Problem	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric:	Richard In Control to 1 (Describe to	Horizon 1 1 1 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30 re not pre \$4 - Sanc	esent dy Gleyed	Red Color (Moist)	ox Features %	Type for Problen	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	htion (Describe to Describe to Depth 16 Soil Field In A1- Histosol A2 - Histic E	Horizon 1 1 1 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4 cators an	% 30 40 30 e not pre S4 - Sanc S5 - Sanc		Red Color (Moist)	ox Features % Indicators	Type for Problem A16 - Coast S7 - Dark S0	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Rion (Describe to Describe to Depth 16 Soil Field In A1- Histosol A2 - Histic E ₁ A3 - Black Hi	Horizon 1 1 1 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4 cators ar	% 30 40 30 e not pre \$4 - Sanc \$6 - Strip		Red Color (Moist)	ox Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	Rion (Describe to Describe to Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge	Horizon 1 1 1 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30 e not pre S4 - Sanc S6 - Strip F1 - Loan		Red Color (Moist)	ox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic EI A3 - Black Hi A4 - Hydroge A5 - Stratifiee	Horizon 1 1 1 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30		Red Color (Moist)	ox Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	Rion (Describe to Legacy 16 of the Legac	Horizon 1 1 1 dicators (check he objedon stic en Sulfide et Layers luck	Color 10YR 10YR 10YR ere if indice	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30		Red Color (Moist)	ox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Hion (Describe to: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Horizon 1 1 1 dicators (check here) bipedon stic en Sulfide di Layers luck ed Below Dark Surface	Color 10YR 10YR 10YR ere if indice	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30	assent de	Red Color (Moist)	ox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric 3	Hion (Describe to Describe to Depth 16	Horizon 1 1 1 dicators (check here) site on Sulfide d Layers luck ed Below Dark Surface	Color 10YR 10YR 10YR ere if indice	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30		Red Color (Moist)	ox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loai fill/clay fill/clay fill/clay 	m)
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	Hion (Describe to Describe to Depth 16	Horizon 1 1 1 dicators (check here) stic en Sulfide d Layers luck ded Below Dark Surface bark Surface fluck Mineral	Color 10YR 10YR 10YR ere if indice	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30	assent de	Red Color (Moist)	ox Features %	Type	Location	(e.g. clay, sand, loar fill/clay fill/clay fill/clay	
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SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Hion (Describe to Describe to Depth 16	Horizon 1 1 1 dicators (check here) stic en Sulfide d Layers luck ded Below Dark Surface bark Surface fluck Mineral	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30		Red Color (Moist)	ox Features % Indicators Indicators of hydrophyty	Type	Location	(e.g. clay, sand, loat fill/clay fill/clay fill/clay	
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Hion (Describe to Describe to Depth 16	Horizon 1 1 1 dicators (check here) stic en Sulfide d Layers luck ded Below Dark Surface bark Surface fluck Mineral	Color 10YR 10YR 10YR 	Matrix (Moist) 4/1 4/4 6/4	% 30 40 30		Red Color (Moist)	ox Features % Indicators Indicators of hydrophyty	Type	Location	(e.g. clay, sand, loat fill/clay fill/clay fill/clay	



Additional Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 2 Sample Point: SP 4 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. **Prevalence Index Worksheet** 8. --9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 87 UPL spp. x 5 = 25 2 388 __(B) 3. Total 97 (A) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes ■ No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Schedonorus arundinaceus 60 **FACU** * Indicators of hydric soil and wetland hydrology must be 2. Sorghum halepense 15 Ν **FACU** present, unless disturbed or problematic. 3. 5 Ν FACU Solidago canadensis 4. 5 Ν FAC **Definitions of Vegetation Strata:** Plantago major UPL 5. Daucus carota 5 Ν 6 Dipsacus fullonum 5 Ν **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. Rosa multiflora **FACU** 7 Ν 8. Panicum sp. 3 Ν #N/A Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. __ Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks:



Project/Site:							01 1 D 1 1 11	400707000		Б.	40/44/40
		k- Sharp Road 138 kV		sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	12/11/19
Applicant:		Electric Power (AEP)			K (D				County:	Licking
Investigator #1:				Investi	gator #2:					State:	Ohio
Soil Unit:	Sebring Sil						IWI/WWI Classification:			Wetland ID:	NA
Landform:	Depression				al Relief:					Sample Point:	
Slope (%):	0	Latitude:			ongitude:				WGS 84	Community ID:	: UPL
		litions on the site ty				(If no, expla	in in remarks)	Yes □	_No	Section:	N/A
Are Vegetation	□ , Soil □ ,	or Hydrology D sig	nificantly	/ disturb	ed?		Are normal circumsta	nces present?	•	Township:	N/A
Are Vegetation	□ , Soil □ ,	or Hydrology □ na	turally pr	oblemat	ic?		Yes	NÐ		Range:	N/A Dir: N/A
SUMMARY OF	FINDINGS										
Hydrophytic Ve		sent?		□ Yes	□ No			Hydric Soils	Present?		□ Yes □ No
Wetland Hydrol				□ Yes						Within A Wetla	and? • Yes • No
Remarks:	logy i resent	•		100	140			15 THIS Carrie	omig i omi	vvidili 7 v v cd	ana: 165 110
rtomanto.											
LIVEROL COV											
HYDROLOGY											
Wetland Hydr	ology Indica	ators (Check here i	indicato	rs are no	ot presen	t □):					
<u>Primary</u>									Secondary:	i	
	A1 - Surface				B9 - Wate					B6 - Surface So	
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation B1 - Water M				B14 - True					C2 - Dry-Seaso C8 - Crayfish B	
	B2 - Sedimer			_			spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron				Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorph	
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	
		on Visible on Aerial Im	agery		D9 - Gaug						
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)				
Field Observat	tions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)						
Water Table Pr		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Saturation Pres		□ Yes □ No			. ,						
			Depth:		(in.)						
Describe Record	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:											
SOILS											
SOILS Map Unit Name):	Sebring Silt Loam									
Map Unit Name		Sebring Silt Loam	licator or confirm	the absence of	indicators) (Typ	e: C=Concentrat	on D=Denletion RM=Reduced Matrix CS=	Covered/Coated Sand Gra	ins: Location: PL=P	ore Lining M=Matrix\	
Map Unit Name Profile Descrip	otion (Describe to t		licator or confirm			e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=0		ins; Location: PL=Pe	ore Lining, M=Matrix)	Texture
Map Unit Name Profile Descrip Top	Bottom	the depth needed to document the inc		Matrix		e: C=Concentrat	Redo	ox Features	ı	T	Texture
Map Unit Name Profile Descrip Top Depth	Bottom Depth	the depth needed to document the inc	Color	Matrix (Moist)	%		Color (Moist)	ox Features %	Туре	Location	(e.g. clay, sand, loam
Map Unit Name Profile Descrip Top	Bottom Depth	the depth needed to document the ind Horizon	Color 10YR	Matrix (Moist) 4/4	% 50	10YR	Redo	ox Features	ı	T	(e.g. clay, sand, loam
Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	he depth needed to document the inc Horizon 1 1	Color 10YR 10YR	Matrix (Moist) 4/4 4/3	% 50 50	10YR	Color (Moist)	%	Type 	Location 	(e.g. clay, sand, loam
Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	the depth needed to document the ind Horizon	Color 10YR	Matrix (Moist) 4/4	% 50	10YR	Redo	%	Type 	Location 	(e.g. clay, sand, loam
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Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Horizon 1 1 2	Color 10YR 10YR 10YR	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR	Color (Moist) 6/8	% 5	Type C	Location M	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Horizon 1 1 2	Color 10YR 10YR 10YR	Matrix (Moist) 4/4 4/3 4/3 	% 50 50 95 	10YR 10YR	Color (Moist) 6/8	% 5	Type C	Location M	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10	Depth Depth 10 16 Depth Depth Depth 16 Depth Dep	Horizon 1 2	Color 10YR 10YR 10YR 	Matrix (Moist) 4/4 4/3 4/3 	% 50 50 95 	10YR 10YR 	Color (Moist) 6/8	x Features	Type C	Location M	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Horizon 1 2	Color 10YR 10YR 10YR 	Matrix (Moist) 4/4 4/3 4/3 	% 50 50 95 	10YR 10YR 	Color (Moist) 6/8	0x Features	Type C	Location M	(e.g. clay, sand, loam clay loam clay loam clay loam
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Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	btion (Describe to 1 Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic E	Horizon 1 2 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95 e not pre S4 - Sanc S5 - Sanc	10YR 10YR sent y Gleyed y Redox	Redo Color (Moist) 6/8	x Features % 5 Indicators	Type C for Probler A16 - Coast S7 - Dark S	Location M Prairie Redox urface	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Detion (Describe to 1) Bottom Depth 10 16 17 16 17 16 17 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Horizon 1 2 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/4 4/3 4/3 cators ar	% 50 50 95 e not pre \$4 - Sanc \$6 - Strip.	10YR 10YR sent y Gleyed y Redox y Redox ped Matrix	Redo Color (Moist) 6/8	ox Features % 5 Indicators	Type C for Probler A16 - Coast S7 - Dark S F12 - Iron-N	Location M natic Soils Prairie Redox urface langanese Mass	(e.g. clay, sand, loam clay loam clay loam clay loam
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Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifier	Horizon 1 2 dicators (check he	Color 10YR 10YR 10YR 	Matrix (Moist) 4/4 4/3 4/3 cators ar	% 50 50 95 en not pre 84 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan	10YR 10YR sent y Gleyed y Redox oped Matrix by Muck M hy Gleyed	Redo Color (Moist) 6/8	ox Features % 5 Indicators	Type	Location M natic Soils Prairie Redox urface langanese Mass	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hystaffe A4 - Stratifie A10 - 2 cm M	Horizon 1 2 dicators (check he	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95 S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F3 - Depl	10YR 10YR sent y Gleyed ly Redox ped Matrix ny Gleyed to Harrix y Gleyed deted Matrix	Redo Color (Moist) 6/8); Matrix ineral Matrix	ox Features % 5 Indicators	Type	Location M natic Soils Prairie Redox urface langanese Mass Shallow Dark Si	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	btion (Describe to 1 Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic E ₁ A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Horizon 1 2 dicators (check he objedon istic en Sulfide di Layers luck ed Below Dark Surface	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR y Gleyed y Redox ped Matrix y Muck Mny	Redo Color (Moist) 6/8): Matrix inneral Matrix crface	ox Features % 5 Indicators	Type	Location M natic Soils Prairie Redox urface langanese Mass Shallow Dark Si	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E	Horizon 1 2 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8 : Matrix ineral Matrix (rface Surface	ox Features % 5 Indicators	Type	Location M natic Soils Prairie Redox urface langanese Mass Shallow Dark Si	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Potion (Describe to Legistration (Describe to Legistration) Bottom Depth 10 10 10 16 16 16 16 16 16 16 16 16 16 16 16 16	Horizon 1 2 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8	ox Features % 5 Indicators	Type	Location M	(e.g. clay, sand, loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Potion (Describe to 1 Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt.	Horizon 1 2 dicators (check here) bipedon stic en Sulfide d Layers luck del Below Dark Surface Muck Mineral	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8	ox Features % 5 Indicators Indicators of hydrophyty	Type	Location	(e.g. clay, sand, loam clay loam clay loam clay loam es urface
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Potion (Describe to Legistration (Describe to Legistration) Bottom Depth 10 10 10 16 16 16 16 16 16 16 16 16 16 16 16 16	Horizon 1 2 dicators (check here) bipedon stic en Sulfide d Layers luck del Below Dark Surface Muck Mineral	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8	ox Features % 5 Indicators	Type	Location	(e.g. clay, sand, loam clay loam clay loam clay loam clay loam
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Potion (Describe to 1 Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt.	Horizon 1 2 dicators (check here) bipedon stic en Sulfide d Layers luck del Below Dark Surface Muck Mineral	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8	ox Features % 5 Indicators Indicators of hydrophyty	Type	Location	(e.g. clay, sand, loam clay loam clay loam clay loam es urface
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Potion (Describe to 1 Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt.	Horizon 1 2 dicators (check here) bipedon stic en Sulfide d Layers luck del Below Dark Surface Muck Mineral	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8	ox Features % 5 Indicators Indicators of hydrophyty	Type	Location	(e.g. clay, sand, loam clay loam clay loam clay loam es urface
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Potion (Describe to 1 Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt.	Horizon 1 2 dicators (check here) bipedon stic en Sulfide d Layers luck del Below Dark Surface Muck Mineral	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8	ox Features % 5 Indicators Indicators of hydrophyty	Type	Location	(e.g. clay, sand, loam clay loam clay loam clay loam es urface
Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Potion (Describe to 1 Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt.	Horizon 1 2 dicators (check here) bipedon stic en Sulfide d Layers luck ded Below Dark Surface Muck Mineral	Color 10YR 10YR 10YR re if india	Matrix (Moist) 4/4 4/3 4/3	% 50 50 95	10YR 10YR sent y Gleyed y Redox y Muck M y Gleyed datrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist) 6/8	ox Features % 5 Indicators Indicators of hydrophyty	Type	Location	(e.g. clay, sand, loam clay loam clay loam clay loam es urface



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: NA

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 10 Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 15 45 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Fraxinus pennsylvanica Ν **FACW** UPL spp. x 5 = 2. 15 FAC Ulmus rubra 3. Rosa palustris 5 Ν OBL Total 122 (A) 249 __(B) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --2 Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Phalaris arundinacea **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Persicaria pensylvanica 40 **FACW** present, unless disturbed or problematic. 3. 10 FACW Verbesina alternifolia Ν 4. 5 Ν OBL **Definitions of Vegetation Strata:** Carex Iurida Symphyotrichum novae-angliae 5. 5 Ν **FACW** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. __ 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site: Stantec Project #: 193707328 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: 12/12/19 Applicant: American Electric Power (AEP) County: Licking Investigator #1: Aaron Kwolek Investigator #2: Kate Bomar State: Ohio NWI/WWI Classification: PUBF Soil Unit: Sebring Silt Loam Wetland ID: Wetland 3 Landform: Local Relief: Concave Sample Point: SP 6 Depression Slope (%): Latitude: 40.1044 Longitude: -82.442888 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants 7 A3 - Saturation C2 - Dry-Season Water Table C8 - Crayfish Burrows B1 - Water Marks C1 - Hydrogen Sulfide Odor C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? ✓ Yes (in.) Nο Depth: Wetland Hydrology Present? Yes □ No Water Table Present? □ Yes . No Depth: (in.) Saturation Present? □ Yes □ No Depth: 10 (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Sebring Silt Loam Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 100 10YR 0 2/1 muck 10 10YR 4/1 92 10YR 4/6 8 С silty clay M 10YR 4/1 10YR 10 16 88 4/6 M silty clay NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 3 Sample Point: SP 6 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. **Prevalence Index Worksheet** 8. --9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 100 Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Cephalanthus occidentalis 5 **OBL** UPL spp. x 5 = 2 3. Total 105 (A) 110 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Sparganium americanum 95 OBL * Indicators of hydric soil and wetland hydrology must be 2. Persicaria pensylvanica 5 Ν **FACW** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



Project/Site: Stantec Project #: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project 193707328 Date: 12/12/19 Applicant: American Electric Power (AEP) County: Licking Investigator #1: Aaron Kwolek Investigator #2: Kate Bomar State: Ohio NWI/WWI Classification: PFO1C Soil Unit: Sebring silt loam Wetland ID: Wetland 3 Landform: Local Relief: Concave Sample Point: SP 7 Depression Slope (%): Latitude: 40.1046 Longitude: -82.442894 Datum: WGS 84 Community ID: PSS Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? □ Yes ☑ (in.) Nο Depth: Wetland Hydrology Present? Yes □ No Water Table Present? □ Yes . No Depth: (in.) Saturation Present? □ Yes 🛮 No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Sebring silt loam Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 100 10YR 0 2/1 muck 6 10YR 4/1 95 10YR 6/4 С PL silty clay 1 10YR 4/1 10YR 16 85 6/4 M silty clay NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 3

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Acer negundo 10 FAC 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 (B) 5. __ 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 40 Total Cover = 10 FACW spp. x 2 = x 3 = FAC spp. 15 45 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Fraxinus pennsylvanica 5 Ν **FACW** UPL spp. x 5 = 2. 25 Cephalanthus occidentalis OBL 265 __(B) 3. Acer rubrum 5 Ν **FAC** Total 145 (A) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Phalaris arundinacea **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Persicaria pensylvanica 40 **FACW** present, unless disturbed or problematic. 3. 5 OBL Scirpus cyperinus Ν 4. 5 Ν **FACW Definitions of Vegetation Strata:** Carex grayi Sparganium americanum 5. 10 Ν **OBL** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Restrictive Layer (If Observed) Remarks:	A12 - Thick D S1 - Sandy M S3 - 5 cm Mu Type:			Depth:				Hydric Soil			Yes No
Restrictive Layer	S1 - Sandy M S3 - 5 cm Mu	luck Mineral		Depth:							Yes No
_ 	S1 - Sandy M	luck Mineral								etiang nygroingy milist ne	present, unless disturbed or problematic
	A4 - Hydroge A5 - Stratified A10 - 2 cm M	n Sulfide I Layers uck ed Below Dark Surface	e		F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	ny Muck M ny Gleyed eted Matri ox Dark Su eted Dark	ineral Matrix x rface Surface sions	Indicators of hydrophyd	TF12 - Very Other (Expla	Shallow Dark Su ain in Remarks)	urface
NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi		ere if indi	cators a	re not pre S4 - Sand S5 - Sand S6 - Strip	y Gleyed y Redox	Matrix	Indicators	A16 - Coast S7 - Dark S	natic Soils ¹ Prairie Redox urface langanese Masse	es
		<u></u>									
											
0	16	1	10YR	4/3	100						silty clay
Depth	Depth	Horizon	1	(Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
Top	Bottom	ro aopui needed to document the in	ucator of confirm	Matrix		e. U-Concentral	Redo	ox Features	ino, Location: PL=Pi	ore cirility, ivi=iviatrix)	Texture
Map Unit Name		Sebring silt loam	udiantor	tho ch	findingt \ T	o: C=C	ion, D=Depletion, RM=Reduced Matrix, CS=C	Omiorod/Ot1 2 15	ing Location D1 -	oro Lining Manharit	
SOILS											
Remarks:											
Describe Record	ed Data (stre	am gauge, monitorin	ıg well, ae	rial photo	os, previou	s inspecti	ons), if available:		N/A		
Field Observat Surface Water Water Table Pro Saturation Pres	Present? esent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hy	drology Pr	resent?	Yes □ No
SUMMARY OF Hydrophytic Ve Wetland Hydrol Remarks: HYDROLOGY Wetland Hydrol Primary:	personal control of the control of t	sent? ? stors (Check here i Water ter Table on arks at t Deposits sosits at or Crust	if indicato	□ Yes	ot presen B9 - Wate B13 - Aqu B14 - True C1 - Hydr C3 - Oxidi C4 - Prese	t ::): er-Stained latic Fauna e Aquatic logen Sulfi ized Rhizce ence of Re ent Iron Re Muck Surl ge or Well	a Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils face Data	Hydric Soils Is This Samp		B6 - Surface So B10 - Drainage C2 - Dry-Seaso C8 - Crayfish B C9 - Saturation	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Are Vegetation	- , Soil - , (□ . Soil □ . (or Hydrology <u>□</u> na	aturally pr	oblemat	ic?		□ Yes	Nə		Range:	N/A Dir: N/A
		itions on the site ty or Hydrology □ sig				(If no, expla	ain in remarks) Are normal circumsta	Yes □ nces present?	No No	Section: Township:	N/A N/A
Slope (%):	0		40.1047	L	ongitude:	-82.442	771		WGS 84	Community ID:	
Soil Unit: Landform:	Sebring silt Rise	loam		Loc	cal Relief:		NWI/WWI Classification:			Wetland ID: Sample Point:	Wetland 3
Investigator #1:	Aaron Kwol	ek `	<u> </u>	Invest	igator #2:					State:	Ohio
Applicant:		Sharp Road 138 kV Tr lectric Power (AEF		Line Reb	uild Project		Stantec Project #:	193707328		Date: County:	12/12/19 Licking
Project/Site:											



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 3

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Acer negundo 60 FAC 2. Acer rubrum 40 FAC Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. __ 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 100 FACW spp. x 2 = x 3 = FAC spp. 110 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ Acer negundo 10 FAC UPL spp. x 5 = 2 3. Total 110 (A) 330 (B) --4. 5. Prevalence Index = B/A = 3.000 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site:	North Newark	- Sharp Road 138 kV Tr	ansmission	Line Rebu	uild Project		Stantec Project #:	193707328		Date:	12/12/19	
Applicant:		Electric Power (AEP			•		•			County:	Licking	
Investigator #1:				Investi	gator #2:	Kate Bo	mar			State:	Ohio	
Soil Unit:	Stonelick lo	oam, occasionally fl	ooded			1	IWI/WWI Classification:	: R3USA		Wetland ID:	NA	
Landform:	Depression	1		Loc	al Relief:	Concav	Э			Sample Point:		
Slope (%):	0	Latitude:			ongitude:				WGS 84	Community ID:		
		litions on the site ty				(If no, expla		Yes □	_No	Section:	N/A	
		or Hydrology 🗆 sig					Are normal circumsta	•)	Township:	N/A	
		or Hydrology <u>□</u> na	turally pr	oblemat	ic?		Yes	NÐ		Range:	N/A Dir	: N/A
SUMMARY OF												
Hydrophytic Ve				Yes				Hydric Soils				es 🛚 No
Wetland Hydrol	ogy Present	?		Yes	□ No			Is This Samp	oling Point	Within A Wetla	and? • Ye	es • No
Remarks:												
HYDROLOGY												
Wetland Hydro	ology Indica	ators (Check here i	f indicato	rs are no	ot presen	t □):						
Primary		(0.1001.11010)			от р. осо	- /-			Secondary:			
					B9 - Wate					B6 - Surface So		
	A2 - High Wa				B13 - Aqu					B10 - Drainage		
	A3 - Saturation B1 - Water M				B14 - True C1 - Hydr					C2 - Dry-Seaso C8 - Crayfish B		
	B2 - Sedimer			_			spheres on Living Roots			C9 - Saturation		ial Imagery
	B3 - Drift Dep						educed Iron			D1 - Stunted or		
	B4 - Algal Ma				C6 - Rece	nt Iron Re	duction in Tilled Soils			D2 - Geomorph		
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	al Test	
		on Visible on Aerial Im			D9 - Gaug							
	Bo - Sparsely	Vegetated Concave S	suriace		Other (Ex	piain in Re	emarks)					
Field Observat												
					<i>(</i> ;)							
Surface Water		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes 🖪 No	
Water Table Pr		□ Yes □ No	Depth:		(in.)				•			
Saturation Pres	ent?	□ Yes □ No	Depth:		(in.)							
Describe Record	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A			
Remarks:												
SOILS												
Map Unit Name):	Stonelick loam, occ	casionall	y flooded	d							
	tion (December 4)		dicator or confirm	the absence of	indicators.) (Typ	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Grai	ins; Location: PL=P	ore Lining, M=Matrix)		
Profile Descrip	CIOII (Describe to I	he depth needed to document the inc										
Profile Descrip	Bottom	he depth needed to document the inc		Matrix				ox Features			Text	ture
Тор	Bottom			Matrix	%		Redo	ox Features %	Type	Location	Text (e.g. clay, s	
	Bottom Depth	Horizon	Color	Matrix (Moist)	%				Type 	Location 	(e.g. clay, s	and, loam)
Top Depth	Bottom Depth 16	Horizon 1		Matrix	1		Color (Moist)	%			4	and, loam) dy loam
Top Depth 0	Bottom Depth 16	Horizon 1 	Color 10YR	Matrix (Moist) 4/3	% 100 		Color (Moist)	%	1	1	(e.g. clay, s	and, loam) dy loam -
Top Depth 0	Bottom Depth 16	Horizon 1 	Color 10YR 	Matrix (Moist) 4/3 	% 100 		Color (Moist)	% 			(e.g. clay, s fine san	and, loam) dy loam - -
Top	Bottom Depth 16	Horizon 1 	Color 10YR 	Matrix (Moist) 4/3 	% 100 	 	Color (Moist)	% 	 		(e.g. clay, s fine san	and, loam) dy loam - -
Top	Bottom Depth 16	Horizon 1	Color 10YR 	Matrix (Moist) 4/3 	% 100 	 	Redo Color (Moist)	% 		 	(e.g. clay, s fine san - - -	and, loam) dy loam - - - -
Top	Bottom Depth 16	Horizon 1	Color 10YR 	Matrix (Moist) 4/3 	% 100 	 	Redo Color (Moist)	%	 	 	(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom Depth 16	Horizon 1	Color 10YR 	Matrix (Moist) 4/3 	% 100 	 	Redo Color (Moist)	% 		 	(e.g. clay, s fine san - - -	and, loam) dy loam - - - -
Top	Bottom Depth 16	Horizon 1	Color 10YR	Matrix (Moist) 4/3	% 100	 	Redo Color (Moist)	%			(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom	Horizon 1	Color 10YR	Matrix (Moist)	% 100	 sent 🗵	Redo Color (Moist)	% Indicators	 s for Probler	 natic Soils ¹	(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom Depth 16 Soil Field In A1- Histosol	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/3 cators ar	% 100	y Gleyed	Redo Color (Moist)	%			(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	%	 for Probler A16 - Coast S7 - Dark S		(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/3 cators ar	% 100 e not pre \$4 - Sand \$6 - Stripi	sent y Gleyed y Redox y Redox y Redox y Redox y Matrix	Redo Color (Moist)	%			(e.g. clay, s fine san	and, loam) dy loam - - - -
Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	%			(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/3 cators ar	% 100 e not pre \$4 - Sand \$6 - Stripi	y Gleyed I y Redox y Redox y Redox y Redox y Redox hy Muck Muy Gleyed	Redo Color (Moist)	%			(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Horizon 1 dicators (check here) bipedon istic en Sulfide d Layers luck ed Below Dark Surface	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100	sent y Gleyed y Redox y Redox y Muck Murix y Muck Murix y Muck detend Matrix x Dark Su	Redo Color (Moist)	%			(e.g. clay, s fine san	and, loam) dy loam - - - -
Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E	Horizon 1 dicators (check heroipedon stic en Sulfide d Layers fluck ed Below Dark Surface Dark Surface	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	%			(e.g. clay, s fine san	and, loam) dy loam - - - -
Top	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon 1 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface bark Surface Muck Mineral	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	% Indicators			(e.g. clay, s fine san	and, loam) dy loam
Top	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon 1 dicators (check heroipedon stic en Sulfide d Layers fluck ed Below Dark Surface Dark Surface	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	% Indicators			(e.g. clay, s fine san	and, loam) dy loam
Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon 1 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface bark Surface Muck Mineral	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	% Indicators	for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla		(e.g. clay, s fine san	and, loam) dy loam
Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface bark Surface Muck Mineral	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	% Indicators Indicators of hydrophyty	for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla		(e.g. clay, s fine san	and, loam) dy loam
Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface bark Surface Muck Mineral	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	% Indicators Indicators of hydrophyty	for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla		(e.g. clay, s fine san	and, loam) dy loam
Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface bark Surface Muck Mineral	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	% Indicators Indicators of hydrophyty	for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla		(e.g. clay, s fine san	and, loam) dy loam
Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface bark Surface Muck Mineral	Color 10YR ere if indice	Matrix (Moist) 4/3 cators ar	% 100		Redo Color (Moist)	% Indicators Indicators of hydrophyty	for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla		(e.g. clay, s fine san	and, loam) dy loam



Project/Site: North Newark- Sharp Road 138 kV Line Rebuild Project Wetland ID: NA Sample Point: SP 9 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B) 7. 8. **Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ Rosa multiflora 5 **FACU** UPL spp. x 5 = 2 3. Total 105 (A) 220 (B) --4. 5. Prevalence Index = B/A = 2.095 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * 97 Phalaris arundinacea **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Verbesina alternifolia 3 Ν **FACW** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Landform: Slope (%): Are climatic/hy <u>dr</u> Are Vegetation [□]	Shoals silt I Basin 0 rologic cond , Soil , Soil , o	oam Latitude itions on the site ty			Rebuild Pro		Stantec Project #:	193707328		Date: County:	01/08/20 Licking
Landform: Slope (%): Are climatic/hydr Are Vegetation [©] Are Vegetation [©] SUMMARY OF F	Basin 0 rologic cond , Soil , Soil , o	Latitude itions on the site ty		Investi	gator #2:					State:	Ohio
Slope (%): Are climatic/hydr Are Vegetation ^D Are Vegetation BUMMARY OF F	orologic cond , Soil , o	itions on the site ty					NWI/WWI Classification	:		Wetland ID:	Wetland 4
Are climatic/hydr Are Vegetation [□] Are Vegetation [□] SUMMARY OF F	rologic cond , Soil , o	itions on the site ty			al Relief:					Sample Point:	
Are Vegetation [□] Are Vegetation <u>□</u> SUMMARY OF F	,Soil □ ,o □ ,Soil <u>□</u> ,o		40.15426	Lo	ongitude:	-82.478	05	Datum:	WGS 84	Community ID	: PEM
Are Vegetation DUMMARY OF F	<u>,</u> Soil <u></u> , o		pical for	this time	of year?	(If no, expla	ain in remarks)	Yes □	No	Section:	N/A
SUMMARY OF F		or Hydrology 🗀 sig	gnificantly	disturb	ed?		Are normal circumsta	ances present	?	Township:	N/A
SUMMARY OF F		or Hydrology 🗀 na	turally pr	oblemati	ic?		Yes	NÐ		Range:	N/A Dir: N/A
Hydrophytic Veg		, <u>, , </u>	,								
i iyalopiiyao vog	etation Pres	sent?		□ Yes	□ No			Hydric Soils	Present?		□ Yes □ No
Wetland Hydrolo				□ Yes						Within A Wetl	and? • Yes • No
Remarks:											
YDROLOGY	logy Indica	tors (Check here i	f indicato	re are n	ot procon	.t \•					
Primary:	лоду шака	Check here I	i iiiuicato	is alt II	or bresen	ı):			Secondary:		
	A1 - Surface \	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface So	oil Cracks
	A2 - High Wa					uatic Fauna				B10 - Drainage	
	A3 - Saturatio	n			B14 - Tru	e Aquatic	Plants			C2 - Dry-Seaso	on Water Table
	B1 - Water M				C1 - Hydr					C8 - Crayfish B	
	B2 - Sedimen						spheres on Living Roots				Visible on Aerial Imager
	B3 - Drift Dep						educed Iron			D1 - Stunted or D2 - Geomorph	r Stressed Plants
	B4 - Algal Ma B5 - Iron Dep				C6 - Rece		duction in Tilled Soils			D2 - Geomorph D5 - FAC-Neut	
		osits on Visible on Aerial Im	nagery			ge or Well				DO - FAC-NEUL	iai 1691
		Vegetated Concave			Other (Ex						
Field Observation	ions:										
Surface Water P		□ Yes □ No	Depth:	1	(in.)						
Nater Table Pre		□ Yes □ No		Surface	` '			Wetland Hy	drology Pr	resent?	Yes □ No
Saturation Prese		□ Yes □ No			- ()						
		am gauge, monitorin		Surfac	. ,				N/A		
Remarks:											
		Shoals silt loam									
Map Unit Name:		Shoals silt loam						0 10 110 10			
Map Unit Name: Profile Descript	tion (Describe to the		dicator or confirm			ne: C=Concentral	ion, D=Depletion, RM=Reduced Matrix, CS=		ains; Location: PL=P	Pore Lining, M=Matrix)	Toyturo
Map Unit Name: Profile Descript Top	tion (Describe to the Bottom	ne depth needed to document the in-		Matrix		e: C=Concentral	Red	ox Features	T	1	Texture
Map Unit Name: Profile Descript Top Depth	tion (Describe to the Bottom Depth	ne depth needed to document the in	Color	Matrix (Moist)	%		Red Color (Moist)	ox Features %	Туре	Location	(e.g. clay, sand, loa
Map Unit Name: Profile Descript Top Depth 0	Bottom Depth 4	Horizon	Color 10YR	Matrix (Moist) 2/1	% 100		Color (Moist)	ox Features % 	Type 	Location 	(e.g. clay, sand, loa
Map Unit Name: Profile Descript Top Depth	tion (Describe to the Bottom Depth	ne depth needed to document the in	Color 10YR 10YR	Matrix (Moist)	% 100 90		Color (Moist) 4/6	ox Features % 10	Туре	Location	(e.g. clay, sand, loa
Map Unit Name: Profile Descript Top Depth 0	Bottom Depth 4	Horizon	Color 10YR	Matrix (Moist) 2/1	% 100		Color (Moist)	ox Features % 	Type 	Location 	(e.g. clay, sand, loa
Map Unit Name: Profile Descript Top Depth 0 4	Bottom Depth 4 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 3/1	% 100 90	 10YR	Color (Moist) 4/6	ox Features % 10	Type C	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4	Bottom Depth 4 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 3/1	% 100 90 	 10YR 	Color (Moist) 4/6	% 10	Type C	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4	Bottom Depth 4 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 3/1 	% 100 90 	 10YR 	Red Color (Moist) 4/6	0x Features	Type C	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4	Bottom Depth 4 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 3/1 	% 100 90 	 10YR 	Red Color (Moist) 4/6	ox Features	Type C	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4	Bottom Depth 4 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 3/1 	% 100 90 	 10YR 	Red Color (Moist) 4/6	ox Features	Type C	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4	tion (Describe to the Bottom Depth 4 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 3/1 	% 100 90	 10YR 	Red Color (Moist) 4/6	Section Sect	Type C	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 3/1 	% 100 90	 10YR 	Red Color (Moist) 4/6):	Section Sect	Type C s for Probler	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	Bottom Depth 4 16 Soil Field Ind	Horizon 1 2 dicators (check he	Color 10YR 10YR	Matrix (Moist) 2/1 3/1 cators ar	% 100 90	10YR esent dy Gleyed	Red Color (Moist) 4/6):	Section Sect	Type C s for Probler	Location M matic Soils ¹ t Prairie Redox	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to II Bottom Depth 4 16 Soil Field In A1- Histosol	Horizon 1 2 dicators (check he	Color 10YR 10YR	Matrix (Moist) 2/1 3/1	% 100 90 e not pre S4 - Sanc	10YR esent dy Gleyed	Red Color (Moist) 4/6	No. No.	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N	Location M t Prairie Redox surface	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check he	Color 10YR 10YR	Matrix (Moist) 2/1 3/1 cators ar	% 100 90 e not pre \$4 - Sanc \$5 - Sanc \$6 - Strip	10YR	Red Color (Moist) 4/6	Section Sect	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check he	Color 10YR 10YR	Matrix (Moist) 2/1 3/1	% 100 90	10YR	Red Color (Moist) 4/6	September Sept	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location M t Prairie Redox surface	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check he	Color 10YR 10YR ere if indice	Matrix (Moist) 2/1 3/1 cators ar	% 100 90	10YR	Red Color (Moist) 4/6	Section Sect	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check hedipedon stic in Sulfide I Layers uck id Below Dark Surface in Surface id Below Dark Surfa	Color 10YR 10YR ere if indice	Matrix (Moist) 2/1 3/1	% 100 90	and the state of t	Red Color (Moist) 4/6): Matrix ineral Matrix c rface	Section Sect	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check headipedon stic in Sulfide IL ayers uch a Below Dark Surface ark Surface ark Surface	Color 10YR 10YR ere if indice	Matrix (Moist) 2/1 3/1	% 100 90	10YR	Red Color (Moist) 4/6	Section Sect	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check headipedon stic in Sulfide I Layers uck de Below Dark Surface ark Surface uck Mineral	Color 10YR 10YR ere if indice	Matrix (Moist) 2/1 3/1	% 100 90	and the state of t	Red Color (Moist) 4/6	ox Features % 10 Indicator	Type C s for Probler A16 - Coasts S7 - Dark S F12 - Iron-N TF12 - Very Other (Explain	Location M	(e.g. clay, sand, loan silt loam silt loam ses
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check headipedon stic in Sulfide IL ayers uch a Below Dark Surface ark Surface ark Surface	Color 10YR 10YR ere if indice	Matrix (Moist) 2/1 3/1	% 100 90	10YR	Red Color (Moist) 4/6	ox Features % 10 Indicator	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loa silt loam silt loam
Map Unit Name: Profile Descript Top Depth 0 4 NRCS Hydric S	tion (Describe to the Bottom Depth 4 16	Horizon 1 2 dicators (check headipedon stic in Sulfide I Layers uck de Below Dark Surface ark Surface uck Mineral	Color 10YR 10YR ere if indice	Matrix (Moist) 2/1 3/1 cators ar	% 100 90	10YR	Red Color (Moist) 4/6	ox Features % 10 Indicators ¹ Indicators of hydrophy	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loa silt loam silt loam ses Surface



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 4

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. 10 x 2 = x 3 = FAC spp. 10 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 102 (A) 132 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Typha latifolia 70 **OBL** * Indicators of hydric soil and wetland hydrology must be 2. 10 Ν FAC Vernonia gigantea present, unless disturbed or problematic. 3. Polygonum sagittatum 10 Ν **OBL** 4. Symphyotrichum novae-angliae 10 Ν **FACW Definitions of Vegetation Strata:** 5. Carex frankii Ν **OBL** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 102 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Drainat/Citar											
Project/Site:	North Newark	- Sharp Road 138 kV Tr	ansmission	Line Rebu	ild Project		Stantec Project #:	193707328		Date:	01/08/20
Applicant:	American E	Electric Power (AEF	P)							County:	Licking
Investigator #1:	Aaron Kwo	lek		Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Amanda sil	t loam				١	WI/WWI Classification:			Wetland ID:	Wetland 4
Landform:	Side slope			Loc	al Relief:	Linear				Sample Point:	SP 11
Slope (%):	0	Latitude	40.15401	Lo	onaitude:	-82.477	316	Datum:	WGS 84	Community ID:	UPL
		litions on the site ty						☑ Yes □	No	Section:	N/A
Are Venetation	Soil D	or Hydrology □ sig	nificantly	disturb	-d?	(11 110, 034)10	Are normal circumsta			Township:	N/A
		or Hydrology □ na					✓ Yes	No		Range:	N/A Dir: N/A
		or riyurology – Ila	iturally pr	oblemati	C:		100	140		Range.	N/A DII. N/A
SUMMARY OF											
Hydrophytic Ve				Yes				Hydric Soils I			□ Yes □ No
Wetland Hydrol	ogy Present	?		Yes	□ No			Is This Samp	oling Point \	Within A Wetla	and? • Yes • No
Remarks:											
HYDROLOGY											
	alamı badias	tore (Charleborn)	findinata			4 - \.					
_		itors (Check here i	i indicato	rs are no	ot presen	ιτ ⊔):			0		
<u>Primary</u> □	A1 - Surface	Mator			PO Wate	er-Stained	Logyos		Secondary:	B6 - Surface Sc	oil Crooks
J	A2 - High Wa					atic Fauna			_	B10 - Drainage	
]	A3 - Saturation					e Aquatic I			_	C2 - Dry-Seaso	
	B1 - Water M			_		ogen Sulfi			_	C8 - Crayfish B	
	B2 - Sedimer			_			spheres on Living Roots		_		Visible on Aerial Imagery
1 0	B3 - Drift Dep			_			educed Iron				Stressed Plants
	B4 - Algal Ma			_			duction in Tilled Soils		_	D2 - Geomorph	
	B5 - Iron Dep			_		Muck Surf				D5 - FAC-Neutr	
		on Visible on Aerial Im	agery			ge or Well				D3 - I AC-Neuti	ai iest
		/ Vegetated Concave S				plain in Re					
	Do Oparoon	vogotatou contavo v	Juliuoo		Outlot (Ex	pianimi	mano)				
Field Observed											
Field Observat											
Surface Water	Present?	□ Yes 🗵 No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pr	esent?	□ Yes □ No	Depth:		(in.)			Woulding Hy	arology i i	osciii.	165 146
Saturation Pres	ent?	□ Yes □ No	Depth:		(in.)						
Describe Descri	ad Data (atra	ana aauaa maanitarin	م سامال مم	rial nhata		a inanaati	ana) if available.		N/A		
Describe Record	ed Data (Stre	am gauge, monitorin	g weii, ae	пат рпото	s, previou	is inspecti	ons), ii avallable.		IN/A		
							· ·				
Remarks:						-	•				
						·					
Remarks:						·					
	:	Amanda silt loam									
SOILS Map Unit Name			dicator or confirm	the absence of	indicators.) (Typ	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Grain	ns; Location: PL=Po	ore Lining, M=Matrix)	
SOILS Map Unit Name Profile Descrip	otion (Describe to t		dicator or confirm		indicators.) (Typ	pe: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS=C		ns; Location: PL=Pc	ore Lining, M=Matrix)	Texture
SOILS Map Unit Name Profile Descrip Top	Bottom	he depth needed to document the in		Matrix		e: C=Concentrat	Redo	ox Features		1	
SOILS Map Unit Name Profile Descrip Top Depth	Bottom (Describe to	he depth needed to document the in	Color	Matrix (Moist)	%		Color (Moist)	ox Features %	Туре	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	he depth needed to document the in Horizon 1	Color 10YR	Matrix (Moist) 3/3	% 100		Color (Moist)	%	Type 	Location 	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Profile Descrip Top Depth	Bottom (Describe to	he depth needed to document the in	Color	Matrix (Moist) 3/3 	%		Color (Moist)	ox Features %	Туре	Location	(e.g. clay, sand, loam)
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SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to Bottom Depth 16	Horizon 1	Color 10YR	Matrix (Moist) 3/3 	% 100	 	Color (Moist)		Type	Location	(e.g. clay, sand, loam) silt loam
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SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 3/3 cators ar	% 100 e not pre S4 - Sanc		Redo Color (Moist)	% Features % Indicators	Type for Problem	Location	(e.g. clay, sand, loam) silt loam
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SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Rion (Describe to Describe to Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A4 - Hydroge	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 3/3 cators ar	% 100 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan		Redo Color (Moist)	ox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silt loam
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SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Rion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Horizon 1 dicators (check here) pipedon stic en Sulfide d Layers luck ed Below Dark Surface	Color 10YR ere if india	Matrix (Moist) 3/3 cators ar	% 100	assent as a second a	Redo Color (Moist)	ox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silt loam
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SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Rion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Horizon 1 dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface duck Mineral	Color 10YR ere if india	Matrix (Moist) 3/3 	% 100 e not pre \$4 - Sanc \$5 - Safc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli		Redo Color (Moist)	ox Features % Indicators Indicators of hydrophytic	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silt loam es urface
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Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 4 Sample Point: SP 11 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 10 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 180 UPL spp. x 5 = 225 2 3. Total 100 (A) 435 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * UPL Schedonorus arundinaceus 45 * Indicators of hydric soil and wetland hydrology must be 2. Solidago canadensis 20 **FACU** present, unless disturbed or problematic. 3. 10 **FACU** Trifolium repens Ν 4. 10 Ν FAC **Definitions of Vegetation Strata:** Plantago major 5. Setaria faberi 15 Ν **FACU** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. __ 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



nvestigator #1: Aarc Soil Unit: Amar Landform: Slope Slope (%): 0 Are climatic/hydrolog Are Vegetation , S Are Vegetation , S SUMMARY OF FIND Hydrophytic Vegetati Wetland Hydrology F Remarks: IYDROLOGY Wetland Hydrology Primary:	on Kwolek nda silt loam, 1 pe gic condition Goil □ , or H' Soil □ , or H' Soil □ , or H' Present' Present? y Indicators Surface Wate High Water T Saturation Water Marks Sediment Deposits Algal Mat or 0 Iron Deposits Inundation Vis Sparsely Veg : ent? □	s on the site ty ydrology sity ydrology na ? s (Check here in the site of	e: 40.17194 ypical for ignificantly aturally pro	this time y disturbe oblemati	cal Relief: congitude: e of year? ed? cic? s = No ot present B9 - Wate B13 - Aqu B14 - True C1 - Hydri C3 - Oxidi C4 - Prese C6 - Rece C7 - Thin D9 - Gaugi	Concave -82.48919 (If no, explain If no, exp	in remarks) Are normal circumst Yes aves ants Odor cheres on Living Roots uced Iron ction in Tilled Soils e ata	Datum: Ves tances present? No Hydric Soils	Present? Jing Point \ Secondary:	State: Wetland ID: Sample Point: Community ID: Section: Township: Range: Within A Wetla B6 - Surface So B10 - Drainage I C2 - Dry-Seasor C8 - Crayfish Bu C9 - Saturation I D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutra	SP 12 PEM N/A N/A N/A Dir: N/A Pes In I
Soil Unit: Amar Landform: Slope Slope (%): 0 Are climatic/hydrolog Are Vegetation , S Are Vegetation , S SUMMARY OF FIND Hydrophytic Vegetati Wetland Hydrology F Remarks: IYDROLOGY Wetland Hydrology F	nda silt loam, 1 pe gic condition Goil □ , or H' Soil □ , or H' Soil □ , or H' Soil □ , or H' Present' Present? y Indicators Surface Wate High Water T Saturation Water Marks Sediment Deposits Algal Mat or 0 Iron Deposits Iron Deposits Inundation Vis Sparsely Veg : ent? □	Latitude as on the site ty ydrology = sig ydrology = na ? s (Check here i er table posits s Crust sible on Aerial Im letated Concave s Yes = No Yes = No	e: 40.17194 ypical for to gnificantly aturally pro if indicato nagery Surface Depth: Depth:	this time y disturbe oblemati	cal Relief: congitude: cof year? ed? cic? s = No cot present B9 - Wate B13 - Aqu B14 - True C1 - Hydra C3 - Oxidi C4 - Prese C6 - Rece C7 - Thin D9 - Gaug Other (Ext	NV Concave -82.48919 (If no, explain If no, explain Er-Stained Leatic Fauna e Aquatic Pia egen Sulfide ized Rhizospence of Red int Iron Redu Muck Surfac ge or Well Di	in remarks) Are normal circumst Yes aves ants Odor cheres on Living Roots uced Iron ction in Tilled Soils e ata	Datum: Yes tances present? No Hydric Soils Is This Samp	Present? Jing Point \	Wetland ID: Sample Point: Community ID: Section: Township: Range: Within A Wetla B6 - Surface So B10 - Drainage I C2 - Dry-Seasor C8 - Crayfish Bt C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutra	Wetland 5 SP 12 PEM N/A N/A N/A Dir: N/A Pes I N And? Yes I N And? Yes I N And? And I N And I
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- A2 - A3 - B1 - B2 - B3 - B4 - B5 - B7 - B8 - B7 - B8 - B8 - B8 - B8 - B8	High Water T Saturation Water Marks Sediment Deposits Algal Mat or Clron Deposits Inundation Vis Sparsely Veg	posits Crust sible on Aerial Im tetated Concave : Yes □ No Yes □ No	Surface Depth: Depth:	2	B13 - Aqu B14 - True C1 - Hydre C3 - Oxidi C4 - Prese C6 - Rece C7 - Thin D9 - Gaug Other (Exp	atic Fauna e Aquatic Pla ogen Sulfide ized Rhizosp ence of Red ent Iron Redu Muck Surfac ge or Well D	onts Odor heres on Living Roots uced Iron uction in Tilled Soils e ata	Wetland Hvo		B10 - Drainage C2 - Dry-Seasor C8 - Crayfish Bu C9 - Saturation \u00fc D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutra	Patterns on Water Table urrows Visible on Aerial Image Stressed Plants ic Position ral Test
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B1 - B2 - B3 - B3 - B4 - B5 - B6 - B7 - B8	Water Marks Sediment Deposits Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg : ent? ### Page 12	posits S Crust S Sisible on Aerial Impetated Concave S Yes □ No Yes □ No	Surface Depth: Depth:	2	C1 - Hydro C3 - Oxidi C4 - Prese C6 - Rece C7 - Thin D9 - Gaug Other (Exp (in.) (in.)	ogen Sulfide ized Rhizosp ence of Red ent Iron Redu Muck Surfac ge or Well D	Odor heres on Living Roots uced Iron lotion in Tilled Soils lee	Wetland Hvo		C8 - Crayfish Bu C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutra	urrows Visible on Aerial Image Stressed Plants ic Position ral Test
B2 - B3 - B4 - B5 - B5 - B7 - B8 - B7 - B8 - B8 - B7 - B8 - B8	Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg	posits S Crust S Sisible on Aerial Impetated Concave S Yes □ No Yes □ No	Surface Depth: Depth:	2	C3 - Oxidi C4 - Prese C6 - Rece C7 - Thin D9 - Gaug Other (Exp	ized Rhizosp ence of Red ent Iron Redu Muck Surfac ge or Well D	heres on Living Roots uced Iron action in Tilled Soils se ata	Wetland Hvo		C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutra	Visible on Aerial Image Stressed Plants ic Position ral Test
B3 - B4 - B5 - B7 - B8	Drift Deposits Algal Mat or 0 Iron Deposits Inundation Vis Sparsely Veg	Crust sible on Aerial Im etated Concave s Yes No Yes No	Surface Depth: Depth:	2	C4 - Prese C6 - Rece C7 - Thin D9 - Gaug Other (Exp (in.) (in.)	ence of Red ent Iron Redu Muck Surfac ge or Well D	uced Iron action in Tilled Soils e ata	Wetland Hvo		D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutra	Stressed Plants iic Position al Test
B4 B5 B7 B8 Field Observations: Surface Water Present Vater Table Present? Describe Recorded Da Remarks:	Algal Mat or Clron Deposits Inundation Vis Sparsely Veg : ent?	Crust sible on Aerial Impetated Concave S Yes No	Surface Depth: Depth:	2	C6 - Rece C7 - Thin D9 - Gaug Other (Exp (in.) (in.)	ent Iron Redu Muck Surfac ge or Well D	iction in Tilled Soils re ata	Wetland Hvo		D2 - Geomorphi D5 - FAC-Neutra	ic Position ral Test
B5 - B7 - B8	Iron Deposits Inundation Vis Sparsely Veg : ent?	sible on Aerial Impetated Concave S Yes □ No Yes □ No	Surface Depth: Depth:	2	C7 - Thin D9 - Gaug Other (Exp (in.) (in.)	Muck Surfac ge or Well Da	e ata	Wetland Hvo		D5 - FAC-Neutra	ral Test
Field Observations: Surface Water Present Nater Table Present? Describe Recorded Da	Inundation Vis	sible on Aerial Impetated Concave S Yes No Yes No	Surface Depth: Depth:	2	D9 - Gaug Other (Exp (in.) (in.)	ge or Well D	ata	Wetland Hvo	Irology Pr	esent?	Yes □ No
Field Observations: Surface Water Present Vater Table Present Saturation Present? Describe Recorded Da Remarks:	ent?	Yes □ No Yes □ No	Depth:	2	(in.) (in.)	plain in Rem	arks)	Wetland Hvo	lrology Pr	esent?	Yes □ No
Surface Water Present Vater Table Present Saturation Present? Describe Recorded Da Remarks:	ent?	Yes [□] No	Depth:		(in.)			Wetland Hvo	Irology Pr	esent? □	Yes □ No
Describe Recorded Da Remarks:		Yes No	Depth:	0	` '						
Remarks:	ata (stream g				(111.)						
Remarks:	ata (Stream 9	auge monitorin	na well ser	rial photo	os previou	e inenaction	s) if available:		N/A		
		auge, monitorin	ig weii, aei	nai prioto	s, previous	s irispectioi	s), ii avaliable.		IN/A		
OILS											
Map Unit Name:	Ama	anda silt loam,	12-18% s	slones e	eroded						
						e: C=Concentration	D=Depletion, RM=Reduced Matrix, CS	S=Covered/Coated Sand Grai	ns: Location: PL=Pr	ore Lining M=Matrix)	
	ottom	needed to document the in	idicator or commit	Matrix		e. C=Concentration,		edox Features	is, Location: FL-FC	re ciriling, ivi–iviatrix)	Texture
		Horizon	Color	(Moist)	%		Color (Moist)	%	Tuno	Location	(e.g. clay, sand, lo
0 0	epth 1	1		2/1	100			70	Type 	LUCATION	1, -
		<u> </u>	10YR								muck
1	4	2	10YR	3/1	90	10YR	4/6	10	С	M	silt loam
NRCS Hydric Soil F	Field Indica	tors (check he	ere if indic	cators ar	re not nre	sent □ \·		Indicators	for Problem	natic Soils 1	
	Histosol	isoro (oncon ne	o.o n maid			ly Gleyed Ma	atrix			Prairie Redox	
	Histic Epiped	on			S5 - Sand		*****		S7 - Dark St		
	Black Histic					ped Matrix				langanese Masse	es
	Hydrogen Sul	ifide				ny Muck Min	eral			Shallow Dark Su	
	Stratified Lay					y Gleyed M				in in Remarks)	
	- 2 cm Muck					eted Matrix			` '	,	
			е			x Dark Surfa	ice				
	- Depleted Be	elow Dark Surface			F7 - Deple	eted Dark Su	ırface				
□ A12 ·	- Depleted Be - Thick Dark S					x Depressio					
□ S1 -	- Thick Dark S Sandy Muck I	Surface Mineral			⊦8 - Redo	opi 00010	ııə				
□ S1 - : □ S3 - :	- Thick Dark S	Surface Mineral			⊦8 - Redo	<u>_</u> 5pi 00010	lio e	1 Indicators of hydrophyt	c vegetation and w	etland hydrology must be	e present, unless disturbed or probl
S1 - S3 - SRestrictive Layer	- Thick Dark S Sandy Muck I 5 cm Mucky F	Surface Mineral Peat or Peat				2 35100310					
□ S1 - : □ S3 - :	- Thick Dark S Sandy Muck I	Surface Mineral Peat or Peat			F8 - Redo 4"	2 351 03310		¹ Indicators of hydrophyt			Yes No



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 5

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 100 (A) 196 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Agrimonia parviflora 5 Ν **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Arctium minus Ν **FACU** present, unless disturbed or problematic. 3. 5 Ν OBL Epilobium coloratum 3 Ν OBL **Definitions of Vegetation Strata:** 4. Carex Iurida Phalaris arundinacea 5. 75 **FACW** 6 Solidago gigantea 10 Ν **FACW** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Restrictive Layer (If Observed)	Туре:			Depth:				Hydric Soil	Present?		Yes ™ No
	A12 - Thick E S1 - Sandy M	luck ed Below Dark Surfac Dark Surface	ce	0	F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	eted Matrix ox Dark Su eted Dark	k rface Surface	Indicators of hydrophyt		ain in Remarks) etland hydrology must be	present, unless disturbed or problem
	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	pipedon istic en Sulfide	oro ir man		S4 - Sand S5 - Sand S6 - Strip F1 - Loam	ly Gleyed ly Redox ped Matrix ny Muck M	, Matrix : : ineral		A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very	Prairie Redox urface langanese Masse Shallow Dark Su	
NRCS Hydric	Soil Field In	idicators (check h	ere if indi	cators a	re not nre	sent ₪):	Indicators	for Problen	natic Soils 1	
											-
		<u></u>	10YR	4/3							siit ioam
0	1 16	1 2	10YR 10YR	2/1 4/3	100						silt loam silt loam
Depth	Depth	Horizon		(Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loar
Тор	Bottom			Matrix			Red	ox Features	1	1	Texture
							ion, D=Depletion, RM=Reduced Matrix, CS=	:Covered/Coated Sand Grai	ins; Location: PL=Po	ore Lining, M=Matrix)	
Map Unit Name):	Shoals silt loam, ()-2% slop	es, occa	sionally fl	ooded					
SOILS											
Remarks:											
Describe Record	ed Data (stre	am gauge, monitori	ng well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Surface Water Water Table Pr Saturation Pres	esent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hyd	drology Pr	esent? ¬	Yes □ No
Field Observat					<i>(</i> ;)						
Wetland Hydr	A1 - Surface A2 - High Wa A3 - Saturati B1 - Water M B2 - Sedime B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundation	ater Table on Marks nt Deposits posits at or Crust	nagery	ors are n	B9 - Wate B13 - Aqu B14 - True C1 - Hydr C3 - Oxidi C4 - Prese	er-Stained latic Fauna e Aquatic I ogen Sulfi ized Rhizo ence of Re ent Iron Re Muck Surf ge or Well	Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils ace Data		Secondary:	B6 - Surface So B10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bi C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutr	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants c Position
HYDROLOGY											
Wetland Hydrol Remarks:	logy Present	ŗ		□ Yes	⊠ No			is mis sam	Jing Point	Willim A Wella	ind? • Yes • No
Hydrophytic Ve					. □ No			Hydric Soils		Alithin A \Alatha	□ Yes □ No
SUMMARY OF		o y a. o. o.gy	aranany pr	o promini						ranger	
Are Vegetation	□ , Soil □ , □ Soil □	or Hydrology si or Hydrology n	igniticanti) aturally or	y disturb oblemat	ed? ic?		Are normal circumsta Yes	ances present <i>:</i> N⊖	•	Township: Range:	N/A N/A Dir: N/A
		ditions on the site t				(If no, expla		Yes □	_No	Section:	N/A
Slope (%):	3		4 0.172125	L	ongitude:	-82.489		Datum:	WGS 84	Community ID:	
Soil Unit: Landform:	Shoals silt loa	ım, 0-2% slopes, occas	ionally flood		al Relief:		WI/WWI Classification	:		Wetland ID: Sample Point:	Wetland 5
Investigator #1:					igator #2:					State:	Ohio
Applicant:		Sharp Road 138 kV Trans Electric Power (AE		Rebuild Pro	oject		Stantec Project #:	193707328		Date: County:	12/13/19 Licking
Proiect/Site:											



Project/Site: North Newark- Sharp Road 138 kV Line Rebuild Project Wetland ID: Wetland 5 Sample Point: SP 13 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Robinia pseudoacacia 5 **FACU** 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 6 (B) 5. __ 6. Percent of Dominant Species That Are OBL, FACW, or FAC: ____17%__ (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 5 FACW spp. x 2 = x 3 = FAC spp. 10 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 95 Rubus allegheniensis 30 **FACU** UPL spp. x 5 = 2. Rosa multiflora **FACU** 30 3. Robinia pseudoacacia 5 Ν **FACU** Total 105 (A) 410 (B) 4. 3.905 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Lonicera japonica **FACU** * Indicators of hydric soil and wetland hydrology must be 2. 10 FAC Alliaria petiolata present, unless disturbed or problematic. 3. 15 FACU Solidago canadensis 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 35 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



Project/Site: Stantec Project #: 193707328 Date: 12/30/19 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Applicant: American Electric Power (AEP) County: Licking Investigator #1: Kate Bomar Investigator #2: Matt Denzler State: Ohio NWI/WWI Classification: Soil Unit: Centerburg silt loam, 6-12% slopes, eroded Wetland ID: Wetland 6 Landform: Toeslope Local Relief: Concave Sample Point: SP 14 Slope (%): Latitude: 40.20286 Longitude: -82.497642 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table \Box B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants 2 A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? □ Yes ☑ Nο Depth: (in.) Wetland Hydrology Present? Yes □ No Water Table Present? 7 Yes No Depth: 6 (in.) Saturation Present? □ Yes □ No Depth: 10 (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Centerburg silt loam, 6-12% slopes, eroded Map Unit Name: Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 10YR 45 10YR silty clay loam 0 16 4/1 4/6 10 C M silty clay loam 10YR 5/1 45 NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 6

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 15 45 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Rubus allegheniensis 5 **FACU** UPL spp. x 5 = 2 3. Total 100 (A) 225 (B) --4. 5. Prevalence Index = B/A = 2.250 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Dichanthelium clandestinum 60 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. 10 Ν **FACW** Verbena hastata present, unless disturbed or problematic. 3. 10 Ν FAC Apocynum cannabinum 4. Prunella vulgaris 5 Ν FAC **Definitions of Vegetation Strata:** 5. Solidago gigantea 10 Ν **FACW** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. __ 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 95 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site: Stantec Project #: 193707328 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: 12/30/19 Applicant: American Electric Power (AEP) County: Licking Investigator #1: Kate Bomar Investigator #2: Matt Denzler State: Ohio NWI/WWI Classification: none Soil Unit: Centerburg silt loam, 6-12% slopes, eroded Wetland ID: Wetland 6 Landform: Side slope Local Relief: Concave Sample Point: SP 15 Slope (%): Latitude: 40.20256 Longitude: -82.497587 Datum: WGS 84 Community ID: UPL Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Ye<u>s □ No</u> Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present :): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? □ Yes ☑ (in.) Nο Depth: Wetland Hydrology Present? □ Yes □ No □ Yes Water Table Present? 7 No Depth: (in.) Saturation Present? □ Yes 🛮 No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Centerburg silt loam, 6-12% slopes, eroded Map Unit Name: Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 10YR 100 0 3 4/1 3 6 10YR 6/3 100 NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleyed Matrix Other (Explain in Remarks) A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Depth: 6" Type: rock (If Observed) Remarks:



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 6 Sample Point: SP 15 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 5 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 40 160 Rubus allegheniensis 30 **FACU** UPL spp. 15 x 5 = 75 Rosa multiflora 2. **FACU** 10 3. Total 90 (A) 305 (B) 4. 3.389 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = 40 ☑ No Prevalence Index is ≤ 3.0 * Yes ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Dichanthelium clandestinum 20 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Fragaria vesca 5 Ν UPL present, unless disturbed or problematic. 3. 15 Υ **FACW** Agrimonia parviflora Polystichum acrostichoides 4. 10 UPL **Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Stantec Project #: 193707328 Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: 12/31/19 Applicant: American Electric Power (AEP) County: Licking Investigator #1: Kate Bomar Investigator #2: Matt Denzler State: Ohio NWI/WWI Classification: PEM1C Soil Unit: Luray silty clay loam Wetland ID: Wetland 7 Landform: Local Relief: Concave Sample Point: SP 16 Basin Slope (%): Latitude: 40.21326 Longitude: -82.500924 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table \Box B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants 2 A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No. 2 Depth: (in.) Wetland Hydrology Present? ☐ Yes □ No Water Table Present? Yes □ No Depth: surface (in.) Saturation Present? □ Yes □ No Depth: 4 (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Luray silty clay loam Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 100 10YR 0 4 2/1 muck 6 10YR 2/1 95 7.5YR 5/6 silt loam 4 10YR 4/1 7.5YR 16 85 5/6 clay loam NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 7 Sample Point: SP 16 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 100 --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 100 (A) 100 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Typha latifolia 85 OBL * Indicators of hydric soil and wetland hydrology must be 2. Scirpus atrovirens 15 Ν OBL present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



Project/Site: Stantec Project #: 193707328 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: 12/31/19 Applicant: American Electric Power (AEP) County: Licking Investigator #1: Kate Bomar Investigator #2: Matt Denzler State: Ohio NWI/WWI Classification: PEM1C Soil Unit: Luray silty clay loam Wetland ID: Wetland 7 Landform: Local Relief: Concave Sample Point: SP 17 Basin Slope (%): Latitude: 40.21292 Longitude: -82.500954 Datum: WGS 84 Community ID: PSS Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? ✓ Yes (in.) Nο Depth: Wetland Hydrology Present? Yes □ No Water Table Present? □ Yes . No Depth: (in.) Saturation Present? □ Yes 🛮 No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Luray silty clay loam Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 90 7.5YR silt loam 0 16 2.5Y 2.5/1 5/6 10 C M NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleyed Matrix Other (Explain in Remarks) A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 7

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. **Prevalence Index Worksheet** 9. __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 10 Total Cover = 0 FACW spp. 100 x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Cornus amomum 60 **FACW** UPL spp. x 5 = 2. OBL Salix nigra 10 Ν 3. Total 110 (A) 210 (B) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Phalaris arundinacea 40 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Remarks:											
Restrictive Layer (If Observed)	Туре:			Depth:				Hydric Soil	Present?		Yes ™ No
	S1 - Sandy Mu				F8 - Redo						present, unless disturbed or proble
	A11 - Depleted A12 - Thick Da	d Below Dark Surface ark Surface	9		F6 - Redo F7 - Deple						
	A10 - 2 cm Mu				F3 - Deple						
	A5 - Stratified	Layers			F2 - Loam	y Gleyed	Matrix			ain in Remarks)	
	A4 - Hydrogen				F1 - Loam					Shallow Dark S	
	A2 - Histic Epi A3 - Black His				S5 - Sand S6 - Stripp	,	•		S7 - Dark S	urtace 1anganese Mass	es
	A1- Histosol				S4 - Sand		Matrix			Prairie Redox	
		dicators (check he	ere if indic							natic Soils ¹	
8	16	2	10YR	4/3	98	10YR	4/6	2	С	М	silty clay loam
0	8	1	10YR	3/2	100						silty clay loam
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loa
Top	Bottom	, Joodinan die in		Matrix		2 231001788		ox Features	,	g manny	Texture
				the absence of	f indicators) (Tyru	e: C=Concentra	tion, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gra	ins: Location: PI =Pi	ore Lining, M=Matrix)	
Map Unit Name		uray silty clay loa	m								
SOILS											
Remarks:	,			•		<u>'</u>	· · · · · · · · · · · · · · · · · · ·				
Describe Recorde	ed Data (strea	ım gauge, monitorin	g well. ae	rial photo	. ,	s inspecti	ons), if available:		N/A		
Saturation Pres		□ Yes □ No	Depth:		(in.)						
Water Table Pre		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes No
Surface Water I		□ Yes ☑ No	Depth:		(in.)			144 41			
Field Observat	ions:										
	вв - Sparsely	Vegetated Concave S	ourtace		Other (Ex	piain in Re	emarks)				
		n Visible on Aerial Im			D9 - Gaug						
-	B5 - Iron Depo			-	C7 - Thin					D5 - FAC-Neutr	
	B3 - Drift Depo B4 - Algal Mat						educed Iron duction in Tilled Soils			D1 - Stunted or D2 - Geomorph	Stressed Plants
_	B2 - Sediment	Deposits			C3 - Oxidi	ized Rhizo	spheres on Living Roots		_	C9 - Saturation	Visible on Aerial Image
	B1 - Water Ma				C1 - Hydr					C8 - Crayfish B	
	A2 - High Wat A3 - Saturation				B13 - Aqu B14 - True					B10 - Drainage C2 - Dry-Seaso	
	A1 - Surface V				B9 - Wate					B6 - Surface So	
Primary:		Oncorner	ilidicato	is are ii	ot presen	. –).			Secondary:	_	
	ology Indicat	t ors (Check here i	f indicato	re are n	ot procon	t == \:					
HYDROLOGY											
Remarks:											
Wetland Hydrol	ogy Present?			□ Yes	□ No			Is This Samp	oling Point	Within A Wetla	and? • Yes • N
Hydrophytic Ve	•				□ No			Hydric Soils			□ Yes □ N
SUMMARY OF											
		or Hydrology <u>□</u> na					Yes	N∂		Range:	N/A Dir: N/A
		r Hydrology 🗆 sig					Are normal circumsta	inces present?)	Township:	N/A
		tions on the site ty						☑ Yes □	No	Section:	N/A
Slope (%):	2	Latitude	40.21287		ongitude:		991	Datum:	WGS 84	Community ID:	
Landform:	Terrace	iay ioaiii		Loc	al Relief:		NVVI/VVVVI Glassification.	. Hone		Sample Point:	
Investigator #1: Soil Unit:	Luray silty c			invest	igator #2:		NWI/WWI Classification:	· none		State: Wetland ID:	Ohio Wetland 7
Applicant:		ectric Power (AEF	?)							County:	Licking
Project/Site:		Sharp Road 138 kV Tr		Line Reb	uild Project		Stantec Project #:	193707328		Date:	12/31/19



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 7 Sample Point: SP 18 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: ____0%___ (A/B) 6. 7. 8. **Prevalence Index Worksheet** 9. __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 20 Rubus allegheniensis 10 **FACU** UPL spp. 60 x 5 = 300 2 3. Total 80 (A) 380 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes ■ No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes ☑ No Morphological Adaptations (Explain) * Yes No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * UPL Zea mavs 60 * Indicators of hydric soil and wetland hydrology must be 2. Schedonorus arundinaceus 10 Ν **FACU** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:		



_													
Project/Site:	North Newark	- Sharp Road 138 kV Tra	ansmissior	n Line Rebi	uild Project		Stantec Project #:	193707328		Date:	12/31/1	9	
Applicant: American Electric Power (AEP)											Licking		
Investigator #1: Kate Bomar Investigator #2: Matt Denzler										State:	Ohio		
Soil Unit:	Algiers silt loam, frequently flooded NWI/WWI Classification: none Wetland ID: Wetland 8											8 b	
Landform:	Toeslope Local Relief: Linear									Sample Point:	SP 19		
Slope (%):	2	Latitude:	40.21124	L.	ongitude:	-82.500	302	Datum:	WGS 84	Community ID:	PEM		
Are climatic/hy	drologic cond	litions on the site ty	pical for	this time	of year?	(If no, expl	ain in remarks)	□ Yes □	No	Section:	N/A		
		or Hydrology □ sig				1	Are normal circumsta	ances present	?	Township:	N/A		
	or Hydrology □ na					□ Yes NĐ			Range:	N/A	Dir: N/A		
SUMMARY OF)							· · · · · · · · · · · · · · · · · · ·			
Hydrophytic Ve	egetation Pres	sent?		□ Yes	□ No			Hydric Soils	Present?		P.	Yes 🗆 No	
Wetland Hydro	□ Yes □ No						Within A Wetla						
Remarks:	logy i resent	:		103	110			13 THIS Carri	Jillig i Ollit	Within A Wette	iriu :	163 110	
rtomanto.													
HYDROLOGY													
		4 (0) 11				1 -)							
		ators (Check here it	indicato	ors are n	ot presen	t 🗆):			0				
Primary: □ A1 - Surface Water □ B9 - Water-Stained Leaves									Secondary:		il Crooke		
□ A2 - High Water Table □ B13 - Aqua													
☑			B14 - True							C2 - Dry-Season Water Table			
☐ A3 - Saturation ☐ B14 - True Aquatic Plants ☐ B1 - Water Marks ☐ C1 - Hydrogen Sulfide Odor										C8 - Crayfish B			
	□ B2 - Sediment Deposits □ C3 - Oxidized Rhizospheres on Living Roots								₽	C9 - Saturation			
□ B3 - Drift Deposits □ C4 - Presence of Reduced Iron								□ D1 - Stunted or Stressed Plants					
	□ B4 - Algal Mat or Crust □ C6 - Recent Iron Reduction in Tilled Soils □ R5 - Iron Deposits □ C7 - Thin Muck Surface □									D2 - Geomorph		1	
□ B5 - Iron Deposits □ C7 - Thin Muck Surface □ D5 - FAC-Neutral T □ B7 - Inundation Visible on Aerial Imagery □ D9 - Gauge or Well Data										ai rest			
		Vegetated Concave S			Other (Ex								
		, 5				'	,						
Field Observa	tions:												
Surface Water		□ Yes ☑ No	Depth:		(in.)								
Water Table Present?													
Saturation Pres		□ Yes □ No		surface	, ,								
					. ,		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		N1/A				
	ied Data (stre	am gauge, monitorin	g well, ac	eriai prioto	s, previou	s inspecti	ons), if available:		N/A				
Remarks:													
SOILS													
Map Unit Name		Algiers silt loam, from											
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=De						tion, D=Depletion, RM=Reduced Matrix, CS	Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)						
Тор		Matrix				Red	Texture						
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Type	Location	(e.g. cla	ay, sand, loam)	
0	4	1	10YR	4/1	100						5	silt loam	
4	16	2	10YR	4/1	90	10YR	4/6	10	С	M	silty	/ clay loam	
											İ		
	+			 -									
ND00 Usadais	0-:15:-1-11:-		16 1				\-	<u> </u>	<u> </u>				
,		dicators (check he	re it inai							matic Soils 1			
□ A1- Histosol □ S4 - Sandy Gleyed Matrix □ A2 - Histic Epipedon □ S5 - Sandy Redox													
□ A2 - Histic Epipedon □ S5 - Sandy Redox □ A3 - Black Histic □ S6 - Stripped Matrix						or barness							
□ A4 - Hydrogen Sulfide □ F1 - Loamy Muck Mi													
□ A5 - Stratified Layers □ F2 - Loamy Gleyed M							· · · · · · · · · · · · · · · · · · ·						
A10 - 2 cm Muck F3 - Depleted Matrix													
□ A11 - Depleted Below Dark Surface □ F6 - Redox Dark Surface													
	A12 - Thick E				F7 - Deple								
	S1 - Sandy M	luck Mineral icky Peat or Peat			F8 - Redo	x Depress	SIONS	1 Indicators of house to	tio vogototi '	uotland hydroless south	procent	a disturbed or	
Restrictive Layer		iony i cal of Feat										s disturbed or problematic	
(If Observed)	Type:			Depth:				Hydric Soil	Present?	2	Yes ¬	No	
Remarks:													
. tomanto.													
l													

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5/14/2021 4:17:37 PM

in

Case No(s). 21-0525-EL-BLN

Summary: Notice Letter of Notification Application for the North Newark-Sharp Road 138 kV Transmission Line Rebuild Project 301-400 electronically filed by Tanner Wolffram on behalf of AEP Ohio Transmission Company, Inc.