Tre	ee Stratum	(Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	Acer rubrum	(· · · · · · · · · · · · · · · · · · ·	30 %	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
	Sassafras albidum		40 %			Total Number of Dominant
	Quercus palustris		25 %		FACW	Species Across All Strata: 5 (B)
	Daniel de la constitución de la		40.0/			Percent of Dominant Species
						that are OBL, FACW, or FAC: 60% (A/B)
			%			2
			%			Prevalence Index worksheet:
			105 % =	Total Cover		Total % Cover of: Multiply by:
501	pling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species% x 1 =0
	-	(Flot size. <u>15</u>)				FACW species% x 2 =0
	Crataegus phaenopyrum			<u>Y</u>		FAC species % x 3 = 0
						FACU species % x 4 = 0
						UPL species% x 5 =0
			<u> %</u>			Column Totals:0% (A)0 (B)
			- - % %			Prevalence Index = B/A =
				Total Cover		Hydrophytic Vegetation Indicators:
He	rb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
1.	Rosa multiflora		30 %	<u>Y</u>	FACU	☐ 2 - Dominance Test is >50%
2.						
						☐ 3 - Prevalence Index is ≤3.0 ¹
4.			<u></u> %			4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate
5.			%			sheet)
						☐ Problematic Hydrophytic Vegetation ¹ (Explain)
			<u></u> %			¹ Indicators of hydric soil and wetland hydrology must be
8.			%_			present, unless disturbed or problematic
9.			%			
			<u> </u>			Definitions of Vegetation Strata:
			<u> </u>			Tree – Woody plants 3 in. (7.6 cm) or more in
12.			%_			diameter at breast height (DBH), regardless of height.
Wo	oody Vine Stratum	(Plot size: <u>30'</u>)	30 % =	Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	-	·	0/			Herb – All herbaceous (non-woody) plants, regardless
						of size, and woody plants less than 3.28 ft tall.
						Weedy vine All weedy vines greater than 2.29 ft in
3. 4.			- <u>%</u> %			Woody vine – All woody vines greater than 3.28 ft in height.
4.				Total Cover		
						Hydrophytic Vegetation Present? ⊠ Yes ☐ No
Re	marks (include photo numbers	here or on a separate si	heet): Photo	graph C-13.		

Depth
10-20
10-20 2.5Y 5/4 100 Silt loam Sil
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains **Pudric Soil Indicators:** Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
☐ Histosol (A1) ☐ Dark Surface (S7) (LRR R, MLRA 149B) ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) ☐ Histic Epipedon (A2) ☐ Polyvalue Below Surface (S8) (MLRA 147, 148) ☐ Coast Prairie Redox (A16) (LRR K, L, R) ☐ Black Histic (A3) ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) ☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L) ☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LRR, K, L) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thin Dark Surface (S9) (LRR, K, L) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Redox (S5) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) ☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)
☐ Histic Epipedon (A2) ☐ Polyvalue Below Surface (S8) (MLRA 147, 148) ☐ Coast Prairie Redox (A16) (LRR K, L, R) ☐ Black Histic (A3) ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) ☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L) ☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LRR, K, L) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thin Dark Surface (S9) (LRR, K, L) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Redox (S5) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) ☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)
□ Black Histic (A3) □ Thin Dark Surface (S9) (LRR R, MLRA 149B) □ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) □ Hydrogen Sulfide (A4) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Dark Surface (S7) (LRR K, L) □ Stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Polyvalue Below Surface (S8) (LRR, K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Very Shallow Dark Surface (TF12) □ Stripped Matrix (S6) □ Other (Explain in Remarks)
☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L) ☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LRR, K, L) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thin Dark Surface (S9) (LRR, K, L) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) ☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)
□ Stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Polyvalue Below Surface (S8) (LRR, K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Other (Explain in Remarks)
□ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Other (Explain in Remarks)
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) ☐ Sandy Redox (S5) ☐ Red Parent Material (F21) ☐ Stripped Matrix (S6) ☐ Other (Explain in Remarks)
□ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks)
□ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks)
□ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks)
☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)
☐ Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic
, , , , , , , , , , , , , , , , , , , ,
Restrictive Layer (if observed): Hydric Soil Present?
Type: Depth (inches): ☐ Yes ☒ No
Remarks: No hydric soil indicator is present.

Project/Site: Lake Avenue Sul	ostation Project		City/County: Lorain Co	unty	Sampling Date: 6/6/2013
Applicant/Owner: American Tr	ansmission Sy	stems, Inc.		State: OH	Sampling Point: SP-51
Investigator(s): G. Shaw			Section, Township	o, Range: T6N I	
Landform (hillslope, terrace, etc.) Hillslope		Local relief (concave, conve	x, none): None	Slope (%): 2
Subregion (LRR or MLRA): LF	RR R	Lat: 41.410	— 973 Long: -82	2.124583	Datum: NAD 83
		ms, 2 to 6 perce			sification: Upland
Are climate/hydrologic conditions					<u> </u>
			e or year? \(\text{\test} \) i es \(\text{\test} \)) (If no, explain	III Nelliains)
Veg Significantly Disturbed?	etation Soil	l Hydrology □	Are "Normal Circum	stances" present?	P ⊠ Yes □ No
•				lain any answers in I	
,			amulius vaint laastiana t		whomat for a trump of a
SUMMARY OF FINDINGS – A	tttach site m				
		es No	Remarks : Wetland hydrology within a wetland.	is absent. Therefo	ore the sample plot is not located
Hydrophytic Vegetation Present			within a wettand.		
Hydric Soil Present?	_				
Wetland Hydrology Present?	_				
Is the Sampled Area within a V	vetiand? L				
HYDROLOGY					
Wetland Hydrology Indicators	:			Secondary	Indicators (minimum of two required)
Primary Indicators (minimum of	one required; cl	heck all that app	o <u>ly)</u>	☐ Surface	Soil Cracks (B6)
☐ Surface Water (A1)		☐ Water-Stai	ned Leaves (B9)	☐ Drainage	e Patterns (B10)
☐ High Water Table (A2)		☐ Aquatic Fa	una (B13)		m Lines (B16)
☐ Saturation (A3)		☐ Marl Depo	sits (B15)	☐ Dry-Seas	son Water Table (C2)
☐ Water Marks (B1)		☐ Hydrogen	Sulfide Odor (C1)	☐ Crayfish	Burrows (C8)
☐ Sediment Deposits (B2)		☐ Oxidized R	hizospheres on Living Roots (C	3) 🔲 Saturatio	on Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)		☐ Presence	of Reduced Iron (C4)	☐ Stunted	or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		☐ Recent Iro	n Reduction in Tilled Soils (C6)	☐ Geomor	phic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Muck	Surface (C7)	☐ Shallow	Aquitard (D3)
☐ Inundation Visible on Aerial I	magery (B7)	☐ Other (Exp	lain in Remarks)	☐ Microtop	ographic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)			☐ FAC-Net	utral Test (D5)
		Depth	Describe Recorded Data (s	stream gauge, mo	nitoring well, aerial photos, previous
Field Observations:	Yes No	(inches):	inspections, etc.), if availab		
Surface Water Present?					
Water Table Present?					
Saturation Present? (includes capillary fringe)					
Wetland Hydrology Present?					
Remarks: No wetland hydrology		esent			
Nemarks. No welland hydrology	indicator is pre	, , , , , , , , , , , , , , , , , , ,			

Tre	e Stratum (Plo	ot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
	·		60 %			Number of Dominant Species that are OBL, FACW, or FAC:	5 (A)
	Acer rubrum Sassafras albidum		20 %	<u>Y</u> Y		Total Number of Dominant	
	Populus deltoides		20 %			Species Across All Strata:	8 (B)
	1 oparao donorado					Percent of Dominant Species	
			<u> </u>			that are OBL, FACW, or FAC:	63%_(A/B)
			%				
			%			Prevalence Index worksheet:	
•			100 % =	Total Cover		Total % Cover of:	Multiply by:
San	oling/Shrub Stratum (Plo	ot size: <u>15'</u>)				OBL species% x	
) 312C. <u>10</u>)	05.0/		E40	FACW species% x	< 2 = <u>0</u>
	Frangula alnus			Y		FAC species% x	c 3 = <u>0</u>
	Lonicera tatarica			<u>Y</u>		FACU species % x	× 4 = 0
							<u></u>
			0/_			· ———	·
			<u>%</u>			Column Totals:0% (A) <u>0</u> (B)
			- // %			Prevalence Index = B/A =	
•				Total Cover		Hydrophytic Vegetation Indicate	ors:
Her	<u>b Stratum</u> (P	lot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic	: Vegetation
1.	Fraxinus pennsylvanica		20 %	N	FACW		
2.	Rosa multiflora		40 %	Υ	FACU	☐ 3 - Prevalence Index is ≤3.0 ¹	
3.	Agrostis stolonifera		40 %	Y	FACW	_	1
4.	Lonicera tatarica		10 %	N	FACU	4 - Morphological Adaptations supporting data in Remarks or	
5.			%			sheet)	a cop a
^			%			☐ Problematic Hydrophytic Vege	etation ¹ (Explain)
7.			%			¹ Indicators of hydric soil and wetland h	hydrology must be
			%_			present, unless disturbed or problemat	
			<u></u> %			Definitions of Variation Strate	
			<u> </u>			Definitions of Vegetation Strata	1:
			- <u>%</u> %			Tree – Woody plants 3 in. (7.6 cm) diameter at breast height (DBH), reg	
•				Total Cover		Sapling/Shrub – Woody plants less	
Wo	ody Vine Stratum (Plo	ot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.	S (Hall 5 III. DDI)
1.	Vitis riparia		10 %	Y	FAC	Herb – All herbaceous (non-woody)	
2.			<u></u> %			of size, and woody plants less than	3.28 ft tall.
3.			%			Woody vine – All woody vines grea	ater than 3.28 ft in
4.			<u></u> %			height.	
			10 % =	Total Cover		Hydrophytic Vegetation Present?	⊠ Yes □ No
•	marks (include photo numbers here or o	n a separate sl	10 % =			Hydrophytic Vegetation Present?	⊠ Yes □ No

Depth (inches) Matrix Redox Features 0-14 10YR 3/1 90 10YR 3/6 10 C M Silt loam 14-20 10YR 3/2 90 7.5YR 5/6 10 C M Silt loam	<u> </u>
0-14 10YR 3/1 90 10YR 3/6 10 C M Silt loam	<u> </u>
14-20 10YR 3/2 90 7.5YR 5/6 10 C M Silt loam	
	—
	—
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ² Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	
☐ Histosol (A1) ☐ Dark Surface (S7) (LRR R, MLRA 149B) ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
☐ Histic Epipedon (A2) ☐ Polyvalue Below Surface (S8) (MLRA 147, 148) ☐ Coast Prairie Redox (A16) (LRR K, L, R)	
☐ Black Histic (A3) ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LRR, K, L)	
☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thin Dark Surface (S9) (LRR, K, L)	
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L)	
☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 145)	B)
☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149	B)
☐ Sandy Redox (S5) ☐ Red Parent Material (F21)	
☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12)	
☐ Other (Explain in Remarks)	
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic	
Restrictive Layer (if observed): Hydric Soil Present?	
Type: Depth (inches): ☑ Yes ☐ No	
Remarks: Hydric soil indicator F6 is present.	

Project/Site: Lake Avenue Sub	station Project		City/County: Lorain County		Sampling Date: 6/6/2013
Applicant/Owner: American Tr	ansmission Syst	tems, Inc.	Stat	e: OH	Sampling Point: SP-52
Investigator(s): G. Shaw			Section, Township, Ra	ange: T6N R	
Landform (hillslope, terrace, etc.)) Hillslope		Local relief (concave, convex, no	one): None	Slope (%): 2
Subregion (LRR or MLRA): _LR	———— RRR	Lat: 41.41096	- 66 Long: -82.124	4565	Datum: NAD 83
	ing-Tiro silt loam				ication: Upland
Are climate/hydrologic conditions			•	 (If no, explain ir	· ·
			oryear: Mies Mino	(II IIO, e xplail1 II	i Nemarks)
_	etation Soil	Hydrology	Are "Normal Circumstan	ices" present?	⊠ Yes □ No
•			(If needed, explain a	•	
,					ant factures at
SUMMARY OF FINDINGS – A				sects, import	ant reatures, etc.
	Ye		Remarks:		
Hydrophytic Vegetation Present?					
Hydric Soil Present?					
Wetland Hydrology Present?		_			
Is the Sampled Area within a W	Vetland?				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of o	one required; che	eck all that apply	<u>/</u>	☐ Surface So	oil Cracks (B6)
☐ Surface Water (A1)		☐ Water-Stain	ed Leaves (B9)		Patterns (B10)
☐ High Water Table (A2)		☐ Aquatic Fau	na (B13)	☐ Moss Trim	
☐ Saturation (A3)		☐ Marl Deposi			on Water Table (C2)
☐ Water Marks (B1)		☐ Hydrogen S	ulfide Odor (C1)	☐ Crayfish B	
☐ Sediment Deposits (B2)		☐ Oxidized Rh	izospheres on Living Roots (C3)		Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)		☐ Presence of	Reduced Iron (C4)		Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		☐ Recent Iron	Reduction in Tilled Soils (C6)		nic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Muck S	Surface (C7)	☐ Shallow A	
☐ Inundation Visible on Aerial Ir	nagery (B7)	☐ Other (Expla	ain in Remarks)		graphic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)			☐ FAC-Neuti	
		Depth	Describe Recorded Data (strea	m gauge, moni	toring well, aerial photos, previous
Field Observations:	Yes No	(inches):	inspections, etc.), if available:	gg.,	у том, шемы реготов, рестои
Surface Water Present?					
Water Table Present?					
Saturation Present? (includes capillary fringe)					
Wetland Hydrology Present?					
Remarks: No wetland hydrology		cont			
Remarks. No welland hydrology	indicator is pres	sent.			

er of Dominant Species e OBL, FACW, or FAC: 3 (A) Ilumber of Dominant s Across All Strata: 7 (B) It of Dominant Species e OBL, FACW, or FAC: 43% (A/B) In of Dominant Specie
s Across All Strata:
at of Dominant Species e OBL, FACW, or FAC: cotal % Cover of: Multiply by: species % x 1 = 0 V species % x 2 = 0 species % x 3 = 0 J species % x 4 = 0 species % x 5 = 0 nn Totals: O % (A) O (B) ence Index = B/A = Shytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
e OBL, FACW, or FAC:43%(A/B) ence Index worksheet: otal % Cover of:Multiply by: species % x 1 =0 V species % x 2 =0 species % x 4 =0 J species % x 5 = on Totals: 0 % (A) 0 (B) ence Index = B/A = ohytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
ence Index worksheet: otal % Cover of:
otal % Cover of: Multiply by: species % x 1 = 0 V species % x 2 = 0 species % x 3 = 0 J species % x 4 = 0 species % x 5 = 0 nn Totals: 0 % (A) 0 (B) ence Index = B/A =
otal % Cover of: Multiply by: species % x 1 = 0 V species % x 2 = 0 species % x 3 = 0 J species % x 4 = 0 species % x 5 = 0 nn Totals: 0 % (A) 0 (B) ence Index = B/A =
Species
V species% $\times 2 = 0$ species% $\times 3 = 0$ U species% $\times 4 = 0$ species% $\times 5 = 0$ Inn Totals:0% (A)0 (B) ence Index = B/A = Shytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is $\leq 3.0^{1}$
species% $\times 3 = 0$ U species% $\times 4 = 0$ Species% $\times 5 = 0$ Inn Totals:0% (A)0 (B) Species% $\times 5 = 0$ Species
U species% $\times 4 = 0$ species% $\times 5 = 0$ species% $\times 6 = 0$ species
U species% $\times 4 = 0$ species% $\times 5 = 0$ species% $\times 6 = 0$ species
species% x 5 =0 nn Totals:0 % (A)0 (B) ence Index = B/A = Shytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
nn Totals:0 % (A)0 (B) ence Index = B/A = phytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
ence Index = B/A = phytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
Prevalence Index is ≤3.0 ¹
Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
Prevalence Index is ≤3.0 ¹
supporting data in Remarks or on a separate
sheet)
blematic Hydrophytic Vegetation ¹ (Explain)
ors of hydric soil and wetland hydrology must be
unless disturbed or problematic
ions of Vegetation Strata:
ions of Vegetation Strata.
Woody plants 3 in. (7.6 cm) or more in er at breast height (DBH), regardless of height.
n/Shrub – Woody plants less than 3 in. DBH ater than 3.28 ft (1 m) tall.
All herbaceous (non-woody) plants, regardless
and woody plants less than 3.28 ft tall.
vine – All woody vines greater than 3.28 ft in
hytic Vegetation Present? ☐ Yes ☒ No
e e

Profile Desc	ription: (Describe t	o the d	-			confirm	the absence of indicators.)	
Depth	Matrix		_	Redox Fea		2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	98	7.5YR 5/6	2	<u>C</u>	M	Silt loam	
12-16	10YR 4/2	95	7.5YR 5/6	5		M	Silt loam	
16-20	2.5Y 5/2	90	7.5YR 5/6	10	C	M	Silt loam	
					· ——		- -	
							- -	_
¹Type: C=Co	oncentration, D=Deple	etion, RI	M=Reduced Matrix, M	S=Maske	ed Sand Grain	IS	² Location: PL=Pore Lining	, M=Matrix
Hydric Soil I	ndicators:						Indicators for Problematic Hydri	c Soils ³ :
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	R, MLRA 1491	3)	☐ 2 cm Muck (A10) (LRR K, L, N	ILRA 149B)
☐ Histic Epi	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LR	R K, L, R)
☐ Black Hist	tic (A3)		☐ Thin Dark Surfac	:e (S9) (L l	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3)	(LRR K, L, R)
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mi	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified	Layers (A5)		☐ Loamy Gleyed M	latrix (F2))		☐ Polyvalue Below Surface (S8)	(LRR, K, L)
☐ Depleted	Below Dark Surface ((A11)	☐ Depleted Matrix ((F3)			☐ Thin Dark Surface (S9) (LRR,	K, L)
☐ Thick Dar	k Surface (A12)		☐ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12)	(LRR, K, L)
-	ıcky Mineral (S1)		☐ Depleted Dark S	urface (F7	7)		☐ Piedmont Floodplain Soils (F19	9) (MLRA 149B)
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 14	4A, 145, 149B)
☐ Sandy Re							☐ Red Parent Material (F21)	
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF	⁻ 12)
							☐ Other (Explain in Remarks)	
³ Indicators of	hydrophytic vegetati	on and	wetland hydrology mu	st be pres	sent, unless o	isturbed o	r problematic	
Restrictive L	ayer (if observed):						Hydric Soil Present?	
Type:			Depth (inches):				☐ Yes ☒ No	
Remarks: N	o hydric soil indicator	r is pres	ent.					

Project/Site: Lake Avenue Substation Project	City/County: Lorain County Sampling Date: 6/6/2013
Applicant/Owner: American Transmission Systems, Inc.	State: OH Sampling Point: SP-53
Investigator(s): G. Shaw	Section, Township, Range: T6N R17W
	ocal relief (concave, convex, none): None Slope (%): 2
Subregion (LRR or MLRA): LRR R Lat: 41.410951	Long: -82.124373 Datum: NAD 83
Soil Map Unit Name: Mahoning-Tiro silt loams, 2 to 6 percent slo	
Are climate/hydrologic conditions on the site typical for this time of ye	
	ar. Stee The (inner explain in remaine)
Vegetation Soil Hydrology Significantly Disturbed? ☐ ☐ ☐	Are "Normal Circumstances" present? ☐ Yes ☐ No
Naturally Problematic?	(If needed, explain any answers in Remarks)
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations transacts important foatures ato
india	narks: This sample plot is not within a wetland because no wetland hydrology cators are present.
hydrophylic vegetation Present?	
Hydric Soil Present?	
Wetland Hydrology Present?	
Is the Sampled Area within a Wetland?	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required; check all that apply)	☐ Surface Soil Cracks (B6)
☐ Surface Water (A1) ☐ Water-Stained L	eaves (B9)
☐ High Water Table (A2) ☐ Aquatic Fauna (B	
☐ Saturation (A3) ☐ Marl Deposits (B	
☐ Water Marks (B1) ☐ Hydrogen Sulfide	
☐ Sediment Deposits (B2) ☐ Oxidized Rhizos	pheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3) ☐ Presence of Rec	
☐ Algal Mat or Crust (B4) ☐ Recent Iron Red	uction in Tilled Soils (C6) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surfa	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in	
☐ Sparsely Vegetated Concave Surface (B8)	☐ FAC-Neutral Test (D5)
Depth [Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous
Field Observations Van No	respections, etc.), if available:
Surface Water Present?	
Water Table Present?	
Saturation Present?	
(includes capillary fringe) Wetland Hydrology Present? □ □	
Remarks: No wetland hydrology indicator is present.	

VEGETATION – Use scientific names of plants

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
1		%			that are OBL, FACW, or FAC: 3 (A)
2					Total Number of Dominant
3		%			Species Across All Strata: 5 (B)
4		%			Percent of Dominant Species
5		%_			that are OBL, FACW, or FAC: 60% (A/B)
6		%_			Prevalence Index worksheet:
7		%_			Total % Cover of: Multiply by:
		0 %	= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species% x 1 =0
	(1 lot 312c. <u>10</u>)	0/	.,		FACW species% x 2 =0
•			<u>Y</u>		FAC species % x 3 = 0
2. Cornus alba		25 %		FACW	FACU species% x 4 =0
3. Populus deltoides					UPL species
4		0/2	-		
5		// 0			Column Totals:0 % (A)0 (B)
6		- / 0 %			Prevalence Index = B/A =
7			= Total Cover		
		00 /0	- Total Covel		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
Solidago canadensis		5 %	N	FACU	□ 2 - Dominance Test is >50%
2. Agrostis stolonifera		10 %	N	FACW	☐ 3 - Prevalence Index is ≤3.0 ¹
3. Juncus effusus		10 %		OBL	
4. Rubus allegheniensis		20 %	<u> </u>	FACU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate
5. Rosa multiflora		50 %	<u> </u>	FACU	sheet)
6. Carex blanda		20 %	Y	FAC	☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%			¹ Indicators of hydric soil and wetland hydrology must be
8					present, unless disturbed or problematic
9		<u> </u>			Definitions of Vegetation Strata:
10.					Definitions of Vegetation Strata.
11		<u>%</u> %			Tree – Woody plants 3 in. (7.6 cm) or more in
12					diameter at breast height (DBH), regardless of height.
		115 %	= Total Cover	•	Sapling/Shrub – Woody plants less than 3 in. DBH
Woody Vine Stratum	(Plot size: 30')				and greater than 3.28 ft (1 m) tall.
1		%			Herb – All herbaceous (non-woody) plants, regardless
2					of size, and woody plants less than 3.28 ft tall.
3					Woody vine – All woody vines greater than 3.28 ft in
4		%			height.
		0 %	= Total Cover	•	Hydrophytic Vegetation Present? ⊠ Yes ☐ No
					Trydrophytic vegetation Tresent: 🖂 Tes 🗀 No
Remarks (include photo numbers in	here or on a separate s	heet): Photo	ograph C-16.		

Profile Desc	ription: (Describe to	the de	epth needed to docu	ment the	indicator or	confirm t	the absence of indicators.)	
Depth	Matrix			Redox Fea		2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		temarks
0-6	10YR 3/1	100					Silt loam	
6-16	10YR 3/1	98	7.5YR 5/6	2	C	M	Silt loam	
16-20	10YR 5/1	90	7.5YR 5/6	10	C	M	Silty clay	
						-		
	·							
¹Type: C=Co	oncentration, D=Deple	tion, RI	M=Reduced Matrix, M	S=Maske	ed Sand Grain	IS	² Location: PL=Pore Lining, M=N	∕latrix
Hydric Soil I	ndicators:						Indicators for Problematic Hydric So	ils³:
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	, MLRA 149E	3)	2 cm Muck (A10) (LRR K, L, MLRA	149B)
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LRR K,	L, R)
☐ Black Hist	tic (A3)		☐ Thin Dark Surfac	e (S9) (L	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR	K, L, R)
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mi	neral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified I	Layers (A5)		☐ Loamy Gleyed M	latrix (F2)	ı		☐ Polyvalue Below Surface (S8) (LRR	, K, L)
☐ Depleted I	Below Dark Surface (A	A11)	☐ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K, L)	
☐ Thick Darl	k Surface (A12)		□ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12) (LRI	R, K, L)
☐ Sandy Mu	cky Mineral (S1)		☐ Depleted Dark S	urface (F	7)		☐ Piedmont Floodplain Soils (F19) (MI	LRA 149B)
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 1	45, 149B)
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)	
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)	
							☐ Other (Explain in Remarks)	
³ Indicators of	hydrophytic vegetation	on and v	wetland hydrology mu	st be pres	sent, unless d	isturbed o	r problematic	
Restrictive L	ayer (if observed):						Hydric Soil Present?	
Type:			Depth (inches):				⊠ Yes □ No	
Remarks: H	ydric soil indicator F6	is pres	ent.					

Yes No Hydrophytic Vegetation Present? □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Landform (hillslope, terrace, etc.) Hillslope Local relief (concave, convex, none); Convex Slope (%); 2 Subregion (LRR or MLRA); LRR R Lat; 41.410965 Long; -82.126009 Datum; NAD 83 Soil Map Unit Name: Mahoning-Tiro silt loams, 0 to 2 percent slopes NWI Classification; Upland Are climate/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Vegetation Soil Hydrology Are "Normal Circumstances" present? Yes No Naturally Disturbed?
Landform (hillslope, terrace, etc.) Hillslope Local relief (concave, convex, none); Convex Slope (%); 2 Subregion (LRR or MLRA); LRR R Lat; 41.410965 Long; -82.126009 Datum; NAD 83 Soil Map Unit Name: Mahoning-Tiro silt loams, 0 to 2 percent slopes NWI Classification; Upland Are climate/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Vegetation Soil Hydrology Are "Normal Circumstances" present? Yes No Naturally Disturbed?
Soil Map Unit Name: Mahoning-Tiro silt loams, 0 to 2 percent slopes NWI Classification: Upland Are climate/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Vegetation Soil Hydrology Are "Normal Circumstances" present? Yes No Naturally Problematic?
Soil Map Unit Name: Mahoning-Tiro slit loams, 0 to 2 percent slopes NWI Classification: Upland Are climate/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Significantly Disturbed?
Are climate/hydrologic conditions on the site typical for this time of year?
Vegetation Soil Hydrology Significantly Disturbed?
Significantly Disturbed?
Naturally Problematic?
Yes No Remarks: Hydrophytic Vegetation Present? □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Yes No Remarks: Hydrophytic Vegetation Present?
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Is the Sampled Area within a Wetland? Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1)
Hydric Soil Present? Wetland Hydrology Present? Is the Sampled Area within a Wetland? Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Marl Deposits (B15) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1)
Wetland Hydrology Present? Is the Sampled Area within a Wetland? Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Haiph Water Table (A2) Water Marks (B1) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Wetland Hydrology Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drianage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Wetland Hydrology Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Morning Patterns (B10) Drainage Patterns (B
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required: Primary Indicators (minimum of one required: check all that apply) Primary Indicators (minimum of one required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Secondary Indicators (minimum of two required: Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3)
Primary Indicators (minimum of one required; check all that apply) □ Surface Soil Cracks (B6) □ Surface Water (A1) □ Water-Stained Leaves (B9) □ Drainage Patterns (B10) □ High Water Table (A2) □ Aquatic Fauna (B13) □ Moss Trim Lines (B16) □ Saturation (A3) □ Marl Deposits (B15) □ Dry-Season Water Table (C2) □ Water Marks (B1) □ Hydrogen Sulfide Odor (C1) □ Crayfish Burrows (C8) □ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) □ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1)
□ Surface Water (A1) □ Water-Stained Leaves (B9) □ Drainage Patterns (B10) □ High Water Table (A2) □ Aquatic Fauna (B13) □ Moss Trim Lines (B16) □ Saturation (A3) □ Marl Deposits (B15) □ Dry-Season Water Table (C2) □ Water Marks (B1) □ Hydrogen Sulfide Odor (C1) □ Crayfish Burrows (C8) □ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) □ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1)
☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Dry-Season Water Table (C2) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Crayfish Burrows (C8) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) ☐ Stunted or Stressed Plants (D1)
□ Saturation (A3) □ Marl Deposits (B15) □ Dry-Season Water Table (C2) □ Water Marks (B1) □ Hydrogen Sulfide Odor (C1) □ Crayfish Burrows (C8) □ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) □ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1)
□ Water Marks (B1) □ Hydrogen Sulfide Odor (C1) □ Crayfish Burrows (C8) □ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) □ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1)
□ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) □ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1)
□ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surface (B8) ☐ FAC-Neutral Test (D5)
Depth Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous
Field Observations: Yes No (inches): inspections, etc.), if available:
Surface Water Present?
Water Table Present?
Saturation Present? \(\sum \square \) \(\sum \square \) \(\square \)
Wetland Hydrology Present? □ ⊠
Remarks: No wetland hydrology indicator is present.

	Stratum	(Plot size: 30')	% Cover	Dominant Species?	Indicator Status	Number of Deminent Cresies		
١.	Liriodondron tulinifora	(* 101 0.201 <u>90</u>)	40 %		FACU	Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)		
2	Liriodendron tulipifera Acer rubrum		40 %	<u>Y</u> Y		Total Number of Dominant		
-	Sassafras albidum		20 %			Species Across All Strata: 7 (B)		
_						Percent of Dominant Species		
_						that are OBL, FACW, or FAC: 71% (A/B)		
			%			Providence in devivorable sets		
			%			Prevalence Index worksheet:		
			115 % =	Total Cover		Total % Cover of:Multiply by:		
Sani	ing/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species% x 1 =0		
	-	(1 lot 312c. <u>10</u>)	40.0/		E40	FACW species% x 2 =0		
_	Frangula alnus			Y		FAC species % x 3 = 0		
_						FACU species % x 4 = 0		
			90			UPL species% x 5 =0		
								
			<u></u>			Column Totals:0% (A)0 (B)		
			%			Prevalence Index = B/A =		
7		55 % = Total Cover			Hydrophytic Vegetation Indicators:			
Hert	Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation		
1	Frangula alnus		20 %	Υ	FAC			
_	Rosa multiflora		50 %		FACU			
-	Sanicula odorata		10 %	N	FAC	☐ 3 - Prevalence Index is ≤3.0¹		
_	Impatiens capensis		2 %	N	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate		
5			%			sheet)		
^			%			☐ Problematic Hydrophytic Vegetation¹ (Explain)		
7			%			¹ Indicators of hydric soil and wetland hydrology must be		
8			%_			present, unless disturbed or problematic		
			%_			Definitions of Managerian Office		
			%_			Definitions of Vegetation Strata:		
						Tree – Woody plants 3 in. (7.6 cm) or more in		
12			<u> </u>			diameter at breast height (DBH), regardless of height.		
١٨/	de Min a Obrahama	(Dist size 201)	<u>77 %</u> =	Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
	dy Vine Stratum	(Plot size: <u>30'</u>)						
_	Vitis riparia		5 %	<u> </u>	FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
			%					
			<u> </u>			Woody vine – All woody vines greater than 3.28 ft in height.		
4				T-4-1 0				
			5 % =	Total Cover		Hydrophytic Vegetation Present? ⊠ Yes ☐ No		
Rem	narks (include photo numbers i	here or on a separate si	neet): Photo	graph C-17.				

Profile Desc	ription: (Describe t	o the d	epth needed to docu	ment the	indicator or	confirm	the absence of indicators.)			
Depth	Matrix		_	Redox Fe		2	_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		emarks		
0-10	10YR 3/2	100	40/0.5/4				Silt loam			
10-16	10YR 5/6	70	10YR 5/1	30	D	M	Silt clay			
			_							
					· ——		- 			
			_							
							_ ·			
1	·		- 							
'Type: C=Co	oncentration, D=Deple	etion, R	M=Reduced Matrix, M	IS=Maske	ed Sand Grair	IS	² Location: PL=Pore Lining, M=N	1atrix		
Hydric Soil I	ndicators:						Indicators for Problematic Hydric Soi	ls³:		
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	R, MLRA 1496	3)	2 cm Muck (A10) (LRR K, L, MLRA	149B)		
☐ Histic Epi	pedon (A2)		☐ Polyvalue Below	Surface	(S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LRR K,	L, R)		
☐ Black Hist	tic (A3)		☐ Thin Dark Surfac	e (S9) (L	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky M	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)			
☐ Stratified	Layers (A5)		☐ Loamy Gleyed M	latrix (F2))		☐ Polyvalue Below Surface (S8) (LRR	, K , L)		
☐ Depleted	Below Dark Surface	(A11)	☐ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K, L)			
☐ Thick Dar	k Surface (A12)		☐ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12) (LRF	₹, K , L)		
☐ Sandy Mu	ıcky Mineral (S1)		☐ Depleted Dark S	urface (F	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)			
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)			
							☐ Other (Explain in Remarks)			
³ Indicators of	hydrophytic vegetati	on and	wetland hydrology mu	st be pres	sent, unless d	isturbed o	r problematic			
Restrictive L	ayer (if observed):						Hydric Soil Present?			
Type:			Depth (inches):				☐ Yes ☒ No			
Remarks: N	lo hydric soil indicator	r is pres	ent.				1			
	•									

Project/Site: Lake Avenue Sul	ostation Project		City/County:Lorain Co	ounty	Sampling Date: 6/6/2013
Applicant/Owner: American Tr	ansmission Syste	ems, Inc.		State: OH	Sampling Point: _ SP-55
Investigator(s): G. Shaw			Section, Townsh	ip, Range: T6N R	
Landform (hillslope, terrace, etc.) Terrace		Local relief (concave, conve	·	
Subregion (LRR or MLRA): LF	RR L	_at: 41.410614	Long: -8	2.126036	Datum: NAD 83
	s loam, 0 to 2 per	cent slopes			fication: PFO (W-21)
Are climate/hydrologic conditions			year? ⊠ Yes □ N	<u> </u>	
			year: Miles Mil	o (II 110, explail1 i	n Nemarks)
Veg Significantly Disturbed?	etation Soil	Hydrology	Are "Normal Circur	nstances" present?	⊠ Yes □ No
•				olain any answers in R	
,			unling point locations	transacta impar	tant factures, etc
SUMMARY OF FINDINGS – A				transects, impor	tant leatures, etc.
	Yes		emarks:		
Hydrophytic Vegetation Present					
Hydric Soil Present?					
Wetland Hydrology Present?					
Is the Sampled Area within a V	Vetland? ⊠				
HYDROLOGY					
Wetland Hydrology Indicators	:			Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum of	one required; che	ck all that apply)		☐ Surface S	soil Cracks (B6)
☐ Surface Water (A1)	ו	⊠ Water-Staine	d Leaves (B9)	□ Drainage	Patterns (B10)
☐ High Water Table (A2)]	Aquatic Faun	a (B13)	☐ Moss Trin	n Lines (B16)
☐ Saturation (A3)]	☐ Marl Deposits	(B15)	☐ Dry-Seas	on Water Table (C2)
☐ Water Marks (B1)]	☐ Hydrogen Sul	fide Odor (C1)	☐ Crayfish E	Burrows (C8)
☐ Sediment Deposits (B2)]	Oxidized Rhiz	ospheres on Living Roots (C3)	n Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)]	☐ Presence of F	Reduced Iron (C4)	☐ Stunted o	r Stressed Plants (D1)
☐ Algal Mat or Crust (B4)]	☐ Recent Iron F	eduction in Tilled Soils (C6)		hic Position (D2)
☐ Iron Deposits (B5)]	☐ Thin Muck Su	rface (C7)	☐ Shallow A	quitard (D3)
☐ Inundation Visible on Aerial I	magery (B7)	☐ Other (Explain	n in Remarks)	☐ Microtopo	ographic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)				tral Test (D5)
Field Observations:	Yes No	Depth			itoring well, aerial photos, previous
		(inches):	inspections, etc.), if availa	ble:	
Surface Water Present? Water Table Present?					
Saturation Present?					
(includes capillary fringe)					
Wetland Hydrology Present?					
Remarks: Wetland hydrology in	dicators B9, B10,	D2, and D5 are	present.		
,					

VEGETATION – Use scientific names of plants

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Acer rubrum			Y	FAC	that are OBL, FACW, or FAC: 4 (A)
2		%			Total Number of Dominant Species Across All Strata: 4 (B)
		%		-	
					Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)
		<u> </u>			
					Prevalence Index worksheet:
<i>1</i>					Total % Cover of: Multiply by:
		100 % =	= Total Cover	•	OBL species % x 1 = 0
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				
Ulmus americana		20 %	Υ	FACW	FACW species% x 2 =0
					FAC species% x 3 =0
		%			FACU species% x 4 =0
		%			UPL species% x 5 =0
5		<u></u> %			Column Totals:0 % (A)0 (B)
6		%			Prevalence Index = B/A =
7		%		-	Trevalence maex – brx –
		20 %	Total Cover	•	Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
Carex stipata		40 %	<u> </u>	OBL	
2. Frangula alnus		5 %			☐ 3 - Prevalence Index is ≤3.0 ¹
3. Onoclea sensibilis	s	10 %		FACW	
4. Pilea pumila		5 %	N	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5		<u></u> %			sheet)
		%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
		%			¹ Indicators of hydric soil and wetland hydrology must be
					present, unless disturbed or problematic
		<u> </u>			Definitions of Vegetation Strata:
11.		0/_			John Marie G. Vogotanon G. ata.
12		<u> </u>			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12			Total Cover		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(DL 4 : 001)	00 /6 -	- Total Covel		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine Stratum	(Plot size: <u>30'</u>)				
1. Vitis riparia		5 %	<u> </u>	FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
		%			
3.					Woody vine – All woody vines greater than 3.28 ft in height.
4		<u></u> %			Holgin.
		5 % =	Total Cover	•	Hydrophytic Vegetation Present? ⊠ Yes ☐ No
Remarks (include nho	nto numbers here or on a separate sl	peet). Photo	aranh C-18		
Noman Ro (morado prio	no mambers here or on a separate or	7001/. 1 11010	grapii o io.		

Profile Desc	ription: (Describe	to the d	epth needed to docu	ment the	indicator or	confirm	the absence of indicators.)		
Depth	Matrix		_ <u> </u>	Redox Fea			_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR 3/1	100	10YR 5/6	5	C	M	Silt loam		
4-10	10YR 4/1	95	7.5YR 5/6	5	<u>C</u>	M	Silt loam		
10-20	10YR 4/1	90	7.5YR 3/4	10	C	M	Silty clay		
							- ·		
						-			
		-	_						
			_						
			_						
¹ Type: C=Co	oncentration, D=Depl	etion, R	M=Reduced Matrix, M	S=Maske	ed Sand Grain	ns	² Location: PL=Pore Lining, N	√=Matrix	
Hydric Soil I	ndicators:						Indicators for Problematic Hydric	Soils ³ :	
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	, MLRA 149I	В)	☐ 2 cm Muck (A10) (LRR K, L, ML	RA 149B)	
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	147, 148)	☐ Coast Prairie Redox (A16) (LRR	K, L, R)	
☐ Black Hist	ic (A3)		☐ Thin Dark Surfac	e (S9) (L l	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (L	RR K, L, R)	
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mi	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)		
☐ Stratified I	Layers (A5)		☐ Loamy Gleyed M	latrix (F2)			☐ Polyvalue Below Surface (S8) (L	.RR, K, L)	
	Below Dark Surface	(A11)	□ Depleted Matrix (☐ Thin Dark Surface (S9) (LRR, K,	, L)	
☐ Thick Darl	k Surface (A12)		☐ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12) (I	LRR, K, L)	
☐ Sandy Mu	cky Mineral (S1)		☐ Depleted Dark S	urface (F7	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144)	A, 145, 149B)	
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)		
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF1:	2)	
							☐ Other (Explain in Remarks)		
³ Indicators of	hydrophytic vegetat	ion and	wetland hydrology mu	st be pres	sent, unless o	disturbed o	r problematic		
Restrictive L	ayer (if observed):						Hydric Soil Present?		
Type:			Depth (inches):				☑ Yes ☐ No		
Remarks: H	ydric soil indicators A	411 and	F3 are present.						

Project/Site: Lake Avenue Sub	ostation Project		City/County: Lorain County	<u>, </u>	Sampling Date: 6/6/2013
Applicant/Owner: American Tr	ansmission Syst	tems, Inc.	Stat	e: OH	Sampling Point: SP-56
Investigator(s): G. Shaw			Section, Township, R	ange: T6N R	
Landform (hillslope, terrace, etc.) Terrace		Local relief (concave, convex, n	one): None	Slope (%): 2
Subregion (LRR or MLRA): LF	 RR R	Lat: 41.41090	7 Long: -82.12	7355	Datum: NAD 83
	s loam, 0 to 2 pe	ercent slopes			ication: Upland
Are climate/hydrologic conditions			f year? ⊠ Yes □ No	(If no, explain ir	· ·
			ryear: Mres Mino	(II IIO, Explail1 II	i Nemarks)
· ·	etation Soil	Hydrology	Are "Normal Circumstar	nces" present?	⊠ Yes □ No
•			(If needed, explain a	•	
,			muling point locations tran		tant factures, etc
SUMMARY OF FINDINGS – A				sects, import	ant reatures, etc.
	Ye		Remarks:		
Hydrophytic Vegetation Present					
Hydric Soil Present?					
Wetland Hydrology Present?					
Is the Sampled Area within a V	Vetland?				
HYDROLOGY					
Wetland Hydrology Indicators:	:			Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of o	one required; che	eck all that apply	<u>)</u>	☐ Surface Se	oil Cracks (B6)
☐ Surface Water (A1)		☐ Water-Staine	d Leaves (B9)	☐ Drainage I	Patterns (B10)
☐ High Water Table (A2)		☐ Aquatic Faur	a (B13)	☐ Moss Trim	Lines (B16)
☐ Saturation (A3)		☐ Marl Deposit	s (B15)	☐ Dry-Seaso	on Water Table (C2)
☐ Water Marks (B1)		☐ Hydrogen Su	lfide Odor (C1)	☐ Crayfish B	urrows (C8)
☐ Sediment Deposits (B2)		☐ Oxidized Rhi	zospheres on Living Roots (C3)	☐ Saturation	Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)		☐ Presence of	Reduced Iron (C4)	☐ Stunted or	Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		☐ Recent Iron I	Reduction in Tilled Soils (C6)		nic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Muck S	urface (C7)	☐ Shallow A	
☐ Inundation Visible on Aerial Ir	magery (B7)	☐ Other (Explain	n in Remarks)		graphic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)			☐ FAC-Neut	ral Test (D5)
		Depth	Describe Recorded Data (strea	am gauge, moni	toring well, aerial photos, previous
Field Observations:	Yes No	(inches):	inspections, etc.), if available:		, , ,
Surface Water Present?					
Water Table Present?					
Saturation Present? (includes capillary fringe)					
Wetland Hydrology Present?					
Remarks: No wetland hydrology		ent			
Nemarks: No welland hydrology	maioator io prec	orit.			

VEGETATION – Use scientific names of plants

Absolute Dominant Indicator Plot size: 30')
that are OBL, FACW, or FAC: 2(A)
% Total Number of Dominant
Species Across All Strata: 5 (B)
% Ferceir of Dollman Species
Prevalence Index worksheet:
Total Cover
OBL species% x 1 = Plot size: <u>15'</u>)
FACW species% x 2 = 50 % Y FACU FAC appeign
40 % Y FAC FAC species% x 3 =
10 % N FACU FACU species % x 4 = _0
2 % N OBL UPL species % x 5 =0
%
% Prevalence Index = B/A =
102 % = Total Cover Hydrophytic Vegetation Indicators:
(Plot size: <u>5'</u>)
30 % Y FACU 2 - Dominance Test is >50%
5 % N FACW
2 % N FACU 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate
Problematic Hydrophytic Vegetation ¹ (Explain)
96 Indicators of hydric soil and wetland hydrology must be
present, unless disturbed or problematic
% Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
407 % Tital Outer
Saphing-drub – Woody plants less than 3 in. DBH
of size, and woody plants less than 3.28 ft tall
% height.
= Total Cover Hydrophytic Vegetation Present? ☐ Yes ☒ No
Plot size: 30')

Profile Desc	ription: (Describe	to the de	-			confirm	the absence of indicators.)		
Depth	Matrix		_	Redox Fea		. 2	_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 3/2	100	7.5.VD 0/4				Silt loam		
6-10 10-20	10YR 4/2	90 95	7.5 YR 3/4 7.5YR 3/4	<u>10</u> 5		M M	Silt loam		
10-20	2.5Y 4/5	95	IVI	Silty clay					
					·				
	-								
							- 		
							<u> </u>		
¹Type: C=Co	ncentration, D=Depl	etion, RI	M=Reduced Matrix, M	IS=Maske	ed Sand Grain	IS	² Location: PL=Pore Lining, N	1=Matrix	
Hydric Soil I	ndicators:						Indicators for Problematic Hydric	Soils³:	
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	R, MLRA 1491	3)	☐ 2 cm Muck (A10) (LRR K, L, MLF	RA 149B)	
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LRR	K, L, R)	
☐ Black Hist	ic (A3)		☐ Thin Dark Surfac	ce (S9) (L	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (LI	RR K, L, R)	
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky M	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)		
☐ Stratified I	_ayers (A5)		☐ Loamy Gleyed M	latrix (F2))		☐ Polyvalue Below Surface (S8) (Li	RR, K, L)	
☐ Depleted I	Below Dark Surface	(A11)	□ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K,	L)	
☐ Thick Darl	k Surface (A12)		☐ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12) (LRR, K, L)		
☐ Sandy Mu	cky Mineral (S1)		☐ Depleted Dark S	urface (F	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)		
☐ Stripped N	/latrix (S6)						☐ Very Shallow Dark Surface (TF12	<u>?</u>)	
							☐ Other (Explain in Remarks)		
³ Indicators of	hydrophytic vegetat	ion and v	wetland hydrology mu	st be pres	sent, unless o	isturbed o	r problematic		
Restrictive L	ayer (if observed):						Hydric Soil Present?		
Type:			Depth (inches):				⊠ Yes □ No		
Remarks: H	ydric soil indicators f	-3 is pre	sent.						

Project/Site: Lake Avenue Subs	tation Project		City/County: Lorain County		Sampling Date: 6/6/2013			
Applicant/Owner: American Tra	nsmission Syst	tems, Inc.	Stat	e: OH	Sampling Point: SP-57			
Investigator(s): G. Shaw			Section, Township, Ra	ange: T6N R				
Landform (hillslope, terrace, etc.)	Hillslope		Local relief (concave, convex, no		Slope (%): _ 2			
Subregion (LRR or MLRA): LRF	 R	Lat: 41.4104	 422 Long:82.126	6946	Datum: NAD 83			
·	g-Tiro silt loam	s, 2 to 6 perce			fication: Upland			
Are climate/hydrologic conditions	on the site typic	cal for this time	e of year? 🛛 Yes 🔲 No	 (If no, explain i	in Remarks)			
Veget		Hydrology	<u> </u>	(, ,	······································			
Significantly Disturbed?			Are "Normal Circumstan	nces" present?	⊠ Yes □ No			
Naturally Problematic?			(If needed, explain a	any answers in R	emarks)			
UMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
	Yes		Remarks:	· ·	,			
Hydrophytic Vegetation Present?	\boxtimes							
Hydric Soil Present?								
Wetland Hydrology Present?								
Is the Sampled Area within a We								
•								
HYDROLOGY								
Wetland Hydrology Indicators:				_	ndicators (minimum of two required)			
Primary Indicators (minimum of or					Soil Cracks (B6)			
☐ Surface Water (A1)			ned Leaves (B9)		Patterns (B10)			
☐ High Water Table (A2)		Aquatic Fa			n Lines (B16)			
Saturation (A3)		☐ Marl Depos		☐ Dry-Seas	on Water Table (C2)			
☐ Water Marks (B1)		☐ Hydrogen S	Sulfide Odor (C1)	☐ Crayfish E	Burrows (C8)			
☐ Sediment Deposits (B2)		☐ Oxidized R	chizospheres on Living Roots (C3)	☐ Saturation	n Visible on Aerial Imagery (C9)			
☐ Drift Deposits (B3)			of Reduced Iron (C4)	☐ Stunted o	r Stressed Plants (D1)			
☐ Algal Mat or Crust (B4)		☐ Recent Iron	n Reduction in Tilled Soils (C6)	☐ Geomorp	hic Position (D2)			
☐ Iron Deposits (B5)		$\hfill\square$ Thin Muck	Surface (C7)	☐ Shallow A	Aquitard (D3)			
☐ Inundation Visible on Aerial Image	agery (B7)	☐ Other (Exp	lain in Remarks)	☐ Microtopo	ographic Relief (D4)			
☐ Sparsely Vegetated Concave S	Surface (B8)			☐ FAC-Neu	tral Test (D5)			
Field Observations	Vac. No.	Depth		ım gauge, mon	itoring well, aerial photos, previous			
Field Observations:	Yes No	<u>(inches):</u>	inspections, etc.), if available:					
Surface Water Present?								
Water Table Present?								
Saturation Present? (includes capillary fringe)								
Wetland Hydrology Present?								
Remarks: No wetland hydrology in	ndicator is pres	ent.						

			Absolute Dominant Indicator		Indicator	Dominance Test worksheet:		
Tre	e Stratum	(Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species		
1.	Acer rubrum		50 %	Y	FAC	that are OBL, FACW, or FAC: 4 (A)		
2.	Liriodendron tulipifera		40 %	Y	FACU	Total Number of Dominant		
3.	Ulmus rubra		10 %	N	FAC	Species Across All Strata: 6 (B)		
4.			<u>%</u>			Percent of Dominant Species that are OBL, FACW, or FAC: 67% (A/B)		
5.			%			that are OBL, FACW, or FAC: 67% (A/B)		
6.			%			Prevalence Index worksheet:		
7.			<u></u> %			Total % Cover of: Multiply by:		
			100 % =	= Total Cover				
Sar	oling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species% x 1 =0		
	A		10.0/	N	FAC	FACW species% x 2 =0		
			00.01		FACW	FAC species% x 3 =0		
	Fraxinus pennsylvanica Ligustrum vulgare				FACU	FACU species% x 4 =0		
			- 0/			UPL species% x 5 =0		
			%			Column Totals:0% (A)0 (B)		
			- / %			Prevalence Index = B/A =		
				Total Cover		Hydrophytic Vegetation Indicators:		
Her	b Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation		
1	Fraxinus pennsyvanica		20 %	N	FACW			
	Sanicula odorata		20 %					
	Rosa multiflora		75 0/		FACU	☐ 3 - Prevalence Index is ≤3.0 ¹		
	Symphoricarpos orbiculatus		20 %		FACU	4 - Morphological Adaptations (Provide		
	у р р					supporting data in Remarks or on a separate sheet)		
6.			%			☐ Problematic Hydrophytic Vegetation¹ (Explain)		
						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
			%			Definitions of Vegetation Strata:		
11.			%			Tree – Woody plants 3 in. (7.6 cm) or more in		
12.			<u></u> %			diameter at breast height (DBH), regardless of height.		
			135 % =	= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH		
Wo	ody Vine Stratum	(Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.		
1.	Toxicodendron radicans		20 %	Υ	FAC	Herb – All herbaceous (non-woody) plants, regardless		
	Vitis riparia		5 %	Y	FACW	of size, and woody plants less than 3.28 ft tall.		
3.	,		%			Woody vine – All woody vines greater than 3.28 ft in		
4.			%			height.		
			25 % =	= Total Cover				
					Hydrophytic Vegetation Present? ⊠ Yes ☐ No			
Rei	marks (include photo numbers here o	or on a separate si	heet): Photo	ograph C-20.				

Profile Desc	ription: (Describe t	to the de	epth needed to docu	ment the	e indicator or	confirm	the absence of indicators.)	-		
Depth	Matrix		_	Redox Fe		2	_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10YR 3/2	100	10/15 7/4				Silt loam			
8-20	10YR 4/6	95	10YR 7/1	5	<u>D</u>	M	Silt			
	·									
-				-				<u> </u>		
	· 									
				-						
¹Type: C=Co	oncentration, D=Depl	etion, RI	M=Reduced Matrix, M	IS=Maske	ed Sand Grain	is .	² Location: PL=Pore Lining,	M=Matrix		
Hydric Soil I	ndicators:						Indicators for Problematic Hydric	; Soils³:		
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR F	R, MLRA 1496	3)	☐ 2 cm Muck (A10) (LRR K, L, M L	_RA 149B)		
☐ Histic Epi	pedon (A2)		☐ Polyvalue Below	Surface	(S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LRF	₹ K, L, R)		
☐ Black Hist	tic (A3)		☐ Thin Dark Surfac	e (S9) (L	.RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky M	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)			
☐ Stratified	Layers (A5)		☐ Loamy Gleyed M	latrix (F2))		☐ Polyvalue Below Surface (S8) (I	∟RR, K, L)		
☐ Depleted	Below Dark Surface	(A11)	☐ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K	, L)		
☐ Thick Dar	k Surface (A12)		☐ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12)	(LRR, K, L)		
☐ Sandy Mu	ıcky Mineral (S1)		☐ Depleted Dark S	urface (F	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
☐ Sandy Re	edox (S5)						☐ Red Parent Material (F21)			
☐ Stripped M	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)			
							☐ Other (Explain in Remarks)			
³ Indicators of	hydrophytic vegetati	ion and v	wetland hydrology mu	st be pre	sent, unless d	isturbed o	or problematic			
Restrictive L	ayer (if observed):						Hydric Soil Present?			
Type:			Depth (inches):				☐ Yes ☒ No			
Remarks: N	lo hydric soil indicato	r is pres	ent.							
	•									

Project/Site: Lake Avenue Subst	ation Project	City/County: L	_orain County	Sampling Date:11/13/2014
Applicant/Owner: American Tran	smission Systems, Inc.		State: OH	Sampling Point: SP-110
Investigator(s): G. Shaw		Section,	Township, Range: T6N,	, R17W
Landform (hillslope, terrace, etc.)	Terrace		ve, convex, none): None	
Subregion (LRR or MLRA): LRR	R Lat: 41.4	<u></u> 4110 <u>98</u> Lo	ong:82.12765	Datum: NAD 83
Soil Map Unit Name: Haskins Id	pam, 0 to 2 percent slope	<u> </u>	-	esification: Upland
Are climate/hydrologic conditions o	n the site typical for this	time of year?	─────────────────────────────────────	n in Remarks)
Vegeta		-	_ , , ,	,
Significantly Disturbed?		Are "Norm	al Circumstances" present	? ⊠ Yes ☐ No
Naturally Problematic?		(If ne	eeded, explain any answers in	Remarks)
SUMMARY OF FINDINGS – Att	ach site map showir	na samplina point loc	ations, transects, impo	ortant features, etc.
00mm/4(1 01 1 m200 1	Yes No		<u> </u>	Train routeres, s.s.
Hydrophytic Vegetation Present?	res No ⊠ □	Nemains.		
Hydric Soil Present?				
Wetland Hydrology Present?				
Is the Sampled Area within a Wet				
IS the Sampled Alea within a vvei				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary	/ Indicators (minimum of two required)
Primary Indicators (minimum of one	e required; check all that	apply)	☐ Surface	Soil Cracks (B6)
☐ Surface Water (A1)	☐ Water-	Stained Leaves (B9)	☐ Drainag	ge Patterns (B10)
☐ High Water Table (A2)	☐ Aquatio	c Fauna (B13)	_	rim Lines (B16)
☐ Saturation (A3)	☐ Marl D	eposits (B15)		ason Water Table (C2)
☐ Water Marks (B1)		gen Sulfide Odor (C1)	•	n Burrows (C8)
☐ Sediment Deposits (B2)	-	ed Rhizospheres on Living		ion Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)	☐ Presen	ice of Reduced Iron (C4)		or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		t Iron Reduction in Tilled S	<u> </u>	rphic Position (D2)
☐ Iron Deposits (B5)		uck Surface (C7)	_	Aquitard (D3)
☐ Inundation Visible on Aerial Ima		Explain in Remarks)		pographic Relief (D4)
☐ Sparsely Vegetated Concave St		<u>-</u>		eutral Test (D5)
	Depth	Doscribe Records		onitoring well, aerial photos, previous
Field Observations:	Yes No (inches			onitoring well, aerial priotos, previous
Surface Water Present?			, n & t	
		_		
Saturation Present?		<u> </u>		
(includes capillary fringe)		_		
Wetland Hydrology Present?				
Remarks: Wetland hydrology indic of the sample plot has lowered the		tland may have been pres	ent at this location in the p	ast. However, the drainage ditch east

Tree Stratum (Plot s	Absolute		Indicator Status	Dominance Test worksheet:
1 Agar agarbarinum	40.0/	Y	FACW	Number of Dominant Species that are OBL, FACW, or FAC:5_(A)
Acer saccnarmum Acer rubrum	40 %	- <u>'</u> Y	FAC	Total Number of Dominant
3. Populus deltoides	10 %	N		Species Across All Strata: 6 (B)
4.				Percent of Dominant Species
5.				that are OBL, FACW, or FAC: 83% (A/B)
6.	%			Prevalence Index worksheet:
7	%			
		= Total Cove		Total % Cover of: Multiply by:
Sonling/Shruh Stratum (Diet o	.izo: 15')			OBL species% x 1 =0
	size: <u>15'</u>)			FACW species% x 2 =0
· · · · · ·		_ <u>Y</u>		FAC species % x 3 = 0
2. <u>Fraxinus pennsylvanica</u>		Y	·	FACU species % x 4 =0
3		_		UPL species % x 5 =
4	9/0			
5				Column Totals:0% (A)0 (B)
6				Prevalence Index = B/A =
		= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot	size: <u>5'</u>)			☐ 1 - Rapid Test for Hydrophytic Vegetation
A December 100 and	 ,	V	FACU	
 Rosa multiflora Sanicula canadensis 	4.04	YN		
Sanicula canadensis Glyceria striata	4.0/		OBL	☐ 3 - Prevalence Index is ≤3.0 ¹
4				4 - Morphological Adaptations ¹ (Provide
5.	<u> </u>			supporting data in Remarks or on a separate sheet)
6.	%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.		_		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
9				
10	%			Definitions of Vegetation Strata:
11	%			Tree – Woody plants 3 in. (7.6 cm) or more in
12				diameter at breast height (DBH), regardless of height.
	27 %	_= Total Cove	r	Sapling/Shrub – Woody plants less than 3 in. DBH
Woody Vine Stratum (Plot s	size: <u>30'</u>)			and greater than 3.28 ft (1 m) tall.
Toxicodendron radicans	10 %	Υ	FAC	Herb – All herbaceous (non-woody) plants, regardless
2.	%			of size, and woody plants less than 3.28 ft tall.
3.	0/			Woody vine – All woody vines greater than 3.28 ft in
4	%	_		height.
	10 %	_= Total Cove	r	Hydrophytic Vegetation Present? ⊠ Yes ☐ No
				, a. op., j. a. rogotation rocont. Z. roc Z. roc
Remarks (include photo numbers here or on a	separate sheet): Pho	tograph C-21.		

Profile Desc	ription: (Describe to	the de	epth needed to docu	ment the	indicator or	confirm t	the absence of indicators.)	-
Depth	Matrix			Redox Fea		2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		emarks
0-6	10YR 3/2	100					Silty clay	
6-14	10YR 3/2	98	7.5YR 3/4	2	C	M	Silty clay	
14-20	10YR 4/1	90	7.5YR 3/4	10	C	M	Silty clay	
							- · 	
			_					
					·			
							- 	
¹Type: C=Co	ncentration, D=Deple	tion, RI	M=Reduced Matrix, M	S=Maske	ed Sand Grain	IS	² Location: PL=Pore Lining, M=N	latrix
Hydric Soil I	ndicators:						Indicators for Problematic Hydric Soi	ls³:
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	, MLRA 149E	3)	2 cm Muck (A10) (LRR K, L, MLRA	149B)
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LRR K, I	∟, R)
☐ Black Hist	ic (A3)		☐ Thin Dark Surfac	e (S9) (L	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR	K, L, R)
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mi	neral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified I	_ayers (A5)		☐ Loamy Gleyed M	latrix (F2)	ı		☐ Polyvalue Below Surface (S8) (LRR,	K, L)
☐ Depleted I	Below Dark Surface (A	A11)	☐ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K, L)	
☐ Thick Darl	k Surface (A12)		□ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12) (LRF	≀, K , L)
☐ Sandy Mu	cky Mineral (S1)		☐ Depleted Dark S	urface (F	7)		☐ Piedmont Floodplain Soils (F19) (ML	.RA 149B)
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 1	45, 149B)
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)	
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)	
							☐ Other (Explain in Remarks)	
³ Indicators of	hydrophytic vegetation	on and v	wetland hydrology mu	st be pres	sent, unless d	isturbed o	r problematic	
Restrictive L	ayer (if observed):						Hydric Soil Present?	
Type:			Depth (inches):	-			⊠ Yes □ No	
Remarks: H	ydric soil indicator F6	is pres	ent.					

Project/Site: Lake Avenue Sub	station Proje	ct	City/County: Lorain	County	Sampling Date: <u>11/13/2014</u>
Applicant/Owner: American Tr	ansmission S	Systems, Inc.		State: OH	Sampling Point: SP-111
Investigator(s): G. Shaw			Section, Towns	ship, Range: T6N F	
Landform (hillslope, terrace, etc.)	Terrace		Local relief (concave, cor		Slope (%): 0
Subregion (LRR or MLRA): LR	R R	Lat: 41.410)376 Long:	-82.127712	Datum: NAD 83
Soil Map Unit Name: Haskins	loam, 0 to 2	percent slopes			ification: Upland
Are climate/hydrologic conditions	on the site t	ypical for this tim	e of year?	No (If no, explain	in Remarks)
		oil Hydrology	-	, ,	,
				umstances" present?	⊠ Yes □ No
Naturally Problematic?			(If needed, o	explain any answers in F	Remarks)
SUMMARY OF FINDINGS – A	ttach site	map showing	sampling point locations	s, transects, impo	rtant features, etc.
		Yes No	Remarks:	· · · · ·	·
Hydrophytic Vegetation Present?					
Hydric Soil Present?					
Wetland Hydrology Present?					
Is the Sampled Area within a W	/etland?				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary	Indicators (minimum of two required)
Primary Indicators (minimum of o	ne required;			☐ Surface S	Soil Cracks (B6)
☐ Surface Water (A1)		☐ Water-Sta	nined Leaves (B9)	☐ Drainage	Patterns (B10)
☐ High Water Table (A2)		☐ Aquatic F	auna (B13)	☐ Moss Tri	m Lines (B16)
☐ Saturation (A3)		☐ Marl Depo	osits (B15)	☐ Dry-Seas	son Water Table (C2)
☐ Water Marks (B1)		☐ Hydrogen	Sulfide Odor (C1)	☐ Crayfish	Burrows (C8)
☐ Sediment Deposits (B2)		☐ Oxidized I	Rhizospheres on Living Roots	s (C3) Saturatio	n Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)		☐ Presence	of Reduced Iron (C4)	☐ Stunted of	or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		☐ Recent Ird	on Reduction in Tilled Soils (C	Geomorp	phic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Mucl	c Surface (C7)	☐ Shallow	Aquitard (D3)
☐ Inundation Visible on Aerial In	nagery (B7)	☐ Other (Ex	plain in Remarks)	☐ Microtope	ographic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)	1		☐ FAC-Neu	utral Test (D5)
Field Observations	V N	Depth	Describe Recorded Data	a (stream gauge, mor	nitoring well, aerial photos, previous
Field Observations:	Yes No	(mones).	inspections, etc.), if avail	ilable:	
Surface Water Present?			=		
Water Table Present?			=		
Saturation Present? (includes capillary fringe)		J	-		
Wetland Hydrology Present?		1			
Remarks: No wetland hydrology	indicator is p	resent. A draina	ge ditch to the east of the san	nple plot likely lowere	d the water table at this location.
			-		

EGETATION – Use scientific names of plants				Sampling Point: SP-111
ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Acer rubrum	80 %	Υ	FAC	that are OBL, FACW, or FAC: 5 (A)
2. Quercus palustris	10 %		FACW	Total Number of Dominant
3. Acer saccharinum	F 0/		FACW	Species Across All Strata: 8 (B)
4.				Percent of Dominant Species
5	%			that are OBL, FACW, or FAC: 63% (A/B)
S	%			Prevalence Index worksheet:
7	%			
	95 %	= Total Cove	r	Total % Cover of: Multiply by:
conline/Chrub Ctratum (Diat size: 451)				OBL species% x 1 =0
rapling/Shrub Stratum (Plot size: 15')				FACW species % x 2 =0
1. Physocarpus opulifolius	5 %		FACW	FAC species % x 3 = 0
2. Fraxinus pennsylvanica		Y		FACU species % x 4 = 0
3.				· — — — — — — — — — — — — — — — — — — —
4 -				UPL species% x 5 =0
5.				Column Totals:0 % (A)0 (B)
5.				Prevalence Index = B/A =
7				
	25 %	= Total Cove	r	Hydrophytic Vegetation Indicators:
erb Stratum (Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
I. Rosa multiflora	20 %	Υ	FACU	□ 2 - Dominance Test is >50%
2. Lonicera japonica	10 %	Υ	FACU	-
3. Juncus sp.	5 %	N		☐ 3 - Prevalence Index is ≤3.0 ¹
1. Quercus palustris	2 %	N	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5. Sanicula canadensis	2 %	N	FACU	sheet)
6. Carex sp.	1 %	N		☐ Problematic Hydrophytic Vegetation¹ (Explain)
7.	%			
3	%			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
9	%			
)	%			Definitions of Vegetation Strata:
1				Tree – Woody plants 3 in. (7.6 cm) or more in
2	%			diameter at breast height (DBH), regardless of height.
	40 %	= Total Cove	r	Sapling/Shrub – Woody plants less than 3 in. DBH
Voody Vine Stratum (Plot size: 30')				and greater than 3.28 ft (1 m) tall.
1. Vitis riparia	5 %	Υ	FAC	Herb – All herbaceous (non-woody) plants, regardless
2. Toxicodendron radicans	10 %	<u>'</u> Y	FAC	of size, and woody plants less than 3.28 ft tall.
3. Lonicera japonica	10 %	Y	FACU	Woody vine – All woody vines greater than 3.28 ft in
5. Lonicera japonica	<u> 10 %</u> %		1700	height.
1				
4	25.0/	Total Cove		

Depth Matrix Redox Features
Silt loam Clay loam Cla
8-20
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains **Indicators for Problematic Hydric Soils*: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1)
Histosol (A1)
☐ Histic Epipedon (A2) ☐ Polyvalue Below Surface (S8) (MLRA 147, 148) ☐ Coast Prairie Redox (A16) (LRR K, L, R) ☐ Black Histic (A3) ☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) ☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L) ☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LRR, K, L) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thin Dark Surface (S9) (LRR, K, L) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Redox (S5) ☐ Redox Depressions (F8) ☐ Red Parent Material (F21) ☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12)
□ Black Histic (A3) □ Thin Dark Surface (S9) (LRR R, MLRA 149B) □ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) □ Hydrogen Sulfide (A4) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Dark Surface (S7) (LRR K, L) □ Stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Polyvalue Below Surface (S8) (LRR, K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L) ☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LRR, K, L) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thin Dark Surface (S9) (LRR, K, L) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Redox (S5) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) ☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12)
□ Stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Polyvalue Below Surface (S8) (LRR, K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12)
□ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12)
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) ☐ Sandy Redox (S5) ☐ Red Parent Material (F21) ☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12)
□ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12)
□ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12)
□ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12)
☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12)
Contract to Boundary
☐ Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic
Restrictive Layer (if observed): Hydric Soil Present?
Type: Depth (inches): ☐ Yes ☒ No
Remarks: No hydric soil indicator is present.





Photograph C-1: View of sample plot (SP)-14 in PEM wetland (W)-7, looking west (July 2012).



Photograph C-2: View of upland SP-15 adjacent to W-7, looking north (July 2012).





Photograph C-3: View of SP-16 in PEM W-7, looking east (July 2012).



Photograph C-4: View of upland SP-17 adjacent to W-7, looking east (July 2012).





Photograph C-5: View of SP-36 in upland, looking north (May 2013).

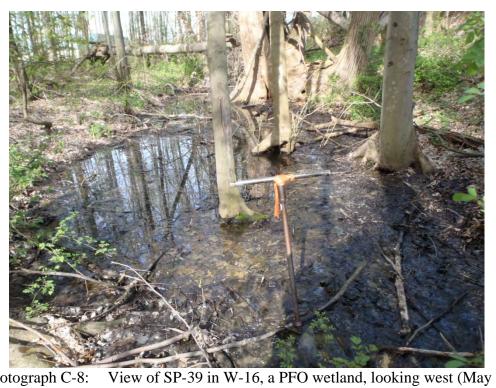


Photograph C-6:





View of SP-38 in upland, looking north (May 2013). Photograph C-7:



Photograph C-8: 2013).



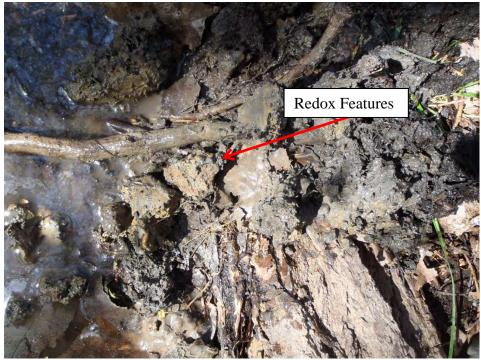


Photograph C-9: View of SP-40 in upland, looking east (May 2013).



Photograph C-10: View of SP-41 location in PFO wetland W-16, looking west (May 2013).





Photograph C-11: View of SP-41 soils in PFO wetland W-16 (May 2013).



Photograph C-12: View of upland SP-42, looking west (May 2013).





Photograph C-13: View of upland SP-43, looking west (May 2013).



Photograph C-14: View of SP-51 in upland, looking north (June 2013).





Photograph C-15: View of SP-52 in upland, looking north (June 2013).



Photograph C-16: View of SP-53 in upland, looking north (June 2013).





Photograph C-17: View of SP-54 in upland, looking north (June 2013).



Photograph C-18: View of SP-55 in W-21, a PFO wetland, looking northwest (June 2013).





Photograph C-19: View of SP-56 in upland, looking north (June 2013).



Photograph C-20: View of SP-57 in upland, looking north (June 2013).





Photograph C-21: View of SP-110 in upland, looking north (November 2014).



Photograph C-22: View of SP-111 in upland, looking north (November 2014).



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Summary: Application for Lake Avenue Substation (Part 6 of 11) electronically filed by Mr. Robert J Schmidt on behalf of American Transmission Systems Inc.