SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	the abse	nce of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0-12	10 YR 5/2	96	7.5 YR 5/6	2	С	М	SiCL	
			10 YR 4/4	2	С	М		
	-		-		-		-	
							-	
	-				-		-	
	-	- ——	-					
1 <sub>Tymes</sub> C=C	neentration D=Den	lotion DM	I=Doduced Metrix M		d Cand C		2l acation	DI-Dara Lining M-Matrix
Hydric Soil I		letion, Riv	1=Reduced Matrix, MS	S=IVIaske	a Sana Gi	ains.		: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
-			Dark Surface	(87)			•••	•
Histosol			Dark Surface		200 (50) (1	MI DA 147	140\	_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				140) _	Coast Prairie Redox (A16) (MLRA 147, 148)
Black Hi	n Sulfide (A4)		Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Ma		(1 2)		_	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		F6)			Very Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depre		. ,		_	
	lucky Mineral (S1) (I	_RR N,	Iron-Mangan			(LRR N,		
	147, 148)		MLRA 13			-		
Sandy G	lleyed Matrix (S4)		Umbric Surfa	ice (F13)	(MLRA 1	36, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	l8)	wetland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (l	F21) <b>(MLF</b>	RA 127, 147	7)	unless disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:								
Depth (ind	ches):						Hydric	Soil Present? Yes No
Remarks:							<u> </u>	
Indicator	F3 met							
a.oato.								

Project/Site: Harrison Power 138-kV Transmission Line Project	City/County: Harrison County	Sampling Date: 10/10/201	17
Applicant/Owner: Jingoli		Sampling Date: 10/10/20 <sup>o</sup> State: OH Sampling Point: KLF-S	P23
Investigator(s): Robert Maggiore, Jill Vovaris, Britton Burnworth	Section, Township, Range: Athe	ns	
Landform (hillslope, terrace, etc.): Hillslope Loc	al relief (concave, convex, none	: none Slope (%): 2	
Subregion (LRR or MLRA). LRR N Lat. 40.20438687	Long81.03	066296 Datum: NAD 8	3
Subregion (LRR or MLRA): LRR N Lat: 40.20438687  Soil Map Unit Name: Morristown channery silt loam, 25 to 70 percent slo	pes, bouldery	NWI classification: N/A	
Are climatic / hydrologic conditions on the site typical for this time of year	,		
Are Vegetation $\underline{\hspace{1.5cm}\checkmark\hspace{1.5cm}}$ , Soil $\underline{\hspace{1.5cm}\checkmark\hspace{1.5cm}}$ , or Hydrology $\underline{\hspace{1.5cm}}$ significantly	disturbed? Are "Normal C	ircumstances" present? Yes No_	
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed, exp	olain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	sampling point location	s, transects, important features	, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Sample area serves as a representative for KL and cattle grazing. Located adjacent to an exis			J
HYDROLOGY			
Wetland Hydrology Indicators:	<u>S</u>	econdary Indicators (minimum of two requi	ired)
Primary Indicators (minimum of one is required; check all that apply)		_ Surface Soil Cracks (B6)	
Surface Water (A1) True Aquatic PI	ants (B14)	_ Sparsely Vegetated Concave Surface (I	B8)
High Water Table (A2) Hydrogen Sulfic		_ Drainage Patterns (B10)	
	· · · · · · · · · · · · · · · · · · ·	_ Moss Trim Lines (B16)	
Water Marks (B1) Presence of Re		_ Dry-Season Water Table (C2)	
	duction in Tilled Soils (C6)	_ Crayfish Burrows (C8)	
Drift Deposits (B3) Thin Muck Surfa		_ Saturation Visible on Aerial Imagery (CS	9)
Algal Mat or Crust (B4) Other (Explain i	n Remarks)	_ Stunted or Stressed Plants (D1)	
Iron Deposits (B5)	<del>-</del>	_ Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)	<del>-</del>	_ Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	<del>-</del>	_ Microtopographic Relief (D4)  ✓ FAC-Neutral Test (D5)	
Aquatic Fauna (B13)  Field Observations:		FAC-Neutral Test (D5)	
Surface Water Present? Yes No ✓ Depth (inches)			
/			
,		drology Present? Yes No	
Saturation Present? Yes No _ ✓ Depth (inches) (includes capillary fringe)	: wetiand Hy	irology Present? Yes No	—
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if availa	ble:	
Remarks:			
Meets indicators C3 and D5.			

# **VEGETATION** (Four Strata) – Use scientific names of plants.

1			Total Number of Dominant Species Across All Strata: 3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:
2			Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
2			Total Number of Dominant Species Across All Strata: 3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:
3			Species Across All Strata: 3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:
4			Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
5			That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:
6			That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:
7			
7			
8			Total O/ Course of Multiply by a
Sapling/Shrub Stratum         (Plot size: 15' r )         0           1. Salix nigra         50			Total % Cover of: Multiply by:
1. Salix nigra 50	TOlai '	Cover	OBL species x 1 =
1. Salix nigra 50		Covei	FACW species x 2 =
	Yes	OBL	FAC species x 3 =
			<del>-</del> "
2			FACU species x 4 =
3			UPL species x 5 =
4			Column Totals: (A) (B)
5			
			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
8			✓ 2 - Dominance Test is >50%
9			
10			3 - Prevalence Index is ≤3.0¹
50	= Total	Cover	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' r )	= TOLAT	Covei	data in Remarks or on a separate sheet)
1. Solidago gigantea 20	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Typha x glauca 25	Yes	OBL	-
			Indicators of hydric soil and wetland hydrology must
3. Juncus effusus 5	No	FACW	be present, unless disturbed or problematic.
4			Definitions of Four Vegetation Strata:
5			Definitions of Four Vegetation offata.
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6			more in diameter at breast height (DBH), regardless of
7			height.
8			Sapling/Shrub – Woody plants, excluding vines, less
9			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10			
11			Herb – All herbaceous (non-woody) plants, regardless
	<u> </u>		of size, and woody plants less than 3.28 ft tall.
12			Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' r )	= Total	Cover	height.
1			-
2			-
3			
4			
5			Hydrophytic
			- Vegetation Present? Yes ✓ No
6			Present? Yes <u>▼</u> No
0	= Total	Cover	

SOIL

Profile Desc	ription: (Describe	to the dept	h needed to docui	ment the i	ndicator	or confirm	the absenc	e of indicators.)	
Depth	Matrix			x Feature	s				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	_
0-8	10 YR 4/2	95	7.5 YR 5/6	5	С	PL	SiC	<u> </u>	
8+								Rock refusal	
					-				
		<del></del>						-	_
	-								
						· '		-	
-	-			_					
				<del>-</del> -				-	
-								-	
¹Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.	
Hydric Soil I		,	,					cators for Problematic Hy	dric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 14	47)
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) <b>(I</b>	VILRA 147,		Coast Prairie Redox (A16)	,
Black Hi	stic (A3)		Thin Dark Su	urface (S9)	(MLRA	147, 148)		(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye	,	F2)			Piedmont Floodplain Soils (	(F19)
	I Layers (A5)		✓ Depleted Ma					(MLRA 136, 147)	
	ck (A10) (LRR N)	(8.4.4)	Redox Dark	•	,			Very Shallow Dark Surface	
	l Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Da Redox Depre				_	Other (Explain in Remarks)	)
	lucky Mineral (S1) <b>(I</b>	RR N	Iron-Mangar			IRRN			
	147, 148)	LIXIX IV,	MLRA 13		C3 (1 12) (	LIXIX IN,			
	leyed Matrix (S4)		Umbric Surfa	•	MLRA 1:	36. 122)	<sup>3</sup> In	dicators of hydrophytic veg	etation and
	edox (S5)		Piedmont Flo					wetland hydrology must be	
-	Matrix (S6)		Red Parent I			-	-	unless disturbed or problen	-
Restrictive I	ayer (if observed):								
Type: Roc	k								
Depth (inc	ches): <u>8"</u>						Hydric So	il Present? Yes _ ✓	No
Remarks:	, -								
Soils dist	urbed from st	trip mini	na. meets inc	dicator	F3				

Project/Site: Harrison Power 138-kV Transmission Line Project City.	County: Harrison County	Sampling Date: 10/10/2017
Applicant/Owner: Jingoli	Str.	ate: OH Sampling Point: KLF-SP24
	tion, Township, Range: Athens	
Landform (hillslope, terrace, etc.): Footslope Local re		
Subregion (LRR or MLRA): LRR N Lat: 40.2054449 Soil Map Unit Name: Morristown channery silt loam, 25 to 70 percent slopes	Long , bouldery	NIMI eleccification: N/A
	,	
Are climatic / hydrologic conditions on the site typical for this time of year?		
Are Vegetation, Soil, or Hydrology significantly distr		umstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally probler	natic? (If needed, explai	n any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations,	transects, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No	•	
HYDROLOGY		
Wetland Hydrology Indicators:	Sec	ondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)
✓ Surface Water (A1) True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide C		Drainage Patterns (B10)
		Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduc		Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduct Drift Deposits (B3) Thin Muck Surface		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Re		Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)	_ ✓	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth (inches):		
Water Table Present? Yes No ✓ Depth (inches):		./
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydro	ology Present? Yes <u>√</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	evious inspections), if available	11
Remarks:		
Meets indicators A1, C3, and D5.		

# **VEGETATION** (Four Strata) – Use scientific names of plants.

001	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: 30' r )		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 3	(B)
4				Descent of Deminent Charles	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  100	(A/B)
6					(,,,,
7.				Prevalence Index worksheet:	
8.				Total % Cover of: Multiply by:	_
		= Total Cov	/er	OBL species x 1 =	_
Sapling/Shrub Stratum (Plot size: 15' r )		10101 001		FACW species x 2 =	_
1				FAC species x 3 =	_
2.				FACU species x 4 =	
3.				UPL species x 5 =	
4.				Column Totals: (A)	
				( )	_ (-)
5				Prevalence Index = B/A =	_
6				Hydrophytic Vegetation Indicators:	
7.				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
10				4 - Morphological Adaptations <sup>1</sup> (Provide supp	oorting
11 1 0( ) (Dist sizes 5' f	0	= Total Cov	/er	data in Remarks or on a separate sheet)	Jorang
Herb Stratum (Plot size: 5' r  1. Carex lurida	30	Yes	OBL	Problematic Hydrophytic Vegetation¹ (Explain	n)
	<del></del>				ĺ
2. Mentha arvensis	15	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology m	nust
3. Juncus effusus	20	No	FACW	be present, unless disturbed or problematic.	idot
4. Schoenoplectus tabernaemontani	15	No	OBL	Definitions of Four Vegetation Strata:	
5. Carex vulpinoidea	20	Yes	OBL		
6				Tree – Woody plants, excluding vines, 3 in. (7.6 c more in diameter at breast height (DBH), regardle	
7				height.	233 01
8					
9.				Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
10				than 3 in. DDIT and greater than 3.20 it (1 in) tail.	
11.	· · · · · · · · · · · · · · · · · · ·			Herb – All herbaceous (non-woody) plants, regar	dless
				of size, and woody plants less than 3.28 ft tall.	
12	100	T-4-1 0-1		Woody vine – All woody vines greater than 3.28	ft in
Woody Vine Stratum (Plot size: 30' r )		= Total Cov	/er	height.	
1					
	-				
2					
3					
4				Hydrophytic	
5				Vegetation /	
6				Present? Yes No	
	0	= Total Cov	/er		
Remarks: (Include photo numbers here or on a separate s	sheet.)				
Passes dominance test, vegetation dist	urbed d	ue to ca	attle		
,					

SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the i	ndicator	or confirm	the absenc	e of indicators.)	
Depth	Matrix			x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10 YR 4/2	95	7.5 YR 5/6	5	С	PL	SiC		
8+								Rock refusal	
						· <del></del>	_		_
					-	. ——			
					-	. ——			
				<del>-</del>					
								- ·	
					-				
	-			<del></del>					
				. <del></del>					
	ncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indi	cators for Problematic Hydric Soils	s <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)	
Histic Ep	ipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) <b>(I</b>	VILRA 147,	148)	Coast Prairie Redox (A16)	
Black His	stic (A3)		Thin Dark Su	urface (S9)	(MLRA	147, 148)		(MLRA 147, 148)	
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)			Piedmont Floodplain Soils (F19)	
Stratified	Layers (A5)		✓ Depleted Ma	ıtrix (F3)				(MLRA 136, 147)	
2 cm Mu	ck (A10) (LRR N)		Redox Dark				_	Very Shallow Dark Surface (TF12)	
Depleted	l Below Dark Surfac	e (A11)	Depleted Da	rk Surface	(F7)			Other (Explain in Remarks)	
Thick Da	rk Surface (A12)		Redox Depre	essions (F	8)				
	lucky Mineral (S1) (I	LRR N,	Iron-Mangar	iese Mass	es (F12) (	(LRR N,			
	147, 148)		MLRA 13	•					
	leyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation ar	nd
Sandy R	edox (S5)		Piedmont Flo			-	-	wetland hydrology must be present,	
	Matrix (S6)		Red Parent I	Material (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.	
	ayer (if observed):	:							
Type: Roo								,	
Depth (inc	:hes): <u>8"</u>						Hydric So	oil Present? Yes <u>√</u> No	
Remarks:									
Soils dist	urbed from st	trip mini	ng/cattle, me	ets indi	cator	F3			
		•	,						

Project/Site: Harrison Power 138-kV Transmission Line Project City/C	County: Harrison County Sampling Date: 10/10/2017
Applicant/Owner: Jingoli	County: Harrison County Sampling Date: 10/10/2017  State: OH Sampling Point: KLF-SP25
Investigator(s): Jill Vovaris Section	
Landform (hillslope, terrace, etc.): Toe-of-slope Local reli	ief (concave convex none): concave Slone (%): 3
Subregion (LRR or MLRA): LRR N Lat: 40.233764	Leng81.03359004 Detum: NAD 83
Subregion (LRR or MLRA): LRR N Lat: 40.233764 Soil Map Unit Name: Morristown channery silty clay loam, 8 to 25 percent slope	es, stony NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present?         Yes ✓ No           Hydric Soil Present?         Yes ✓ No           Wetland Hydrology Present?         Yes ✓ No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Sample area serves as a representative for KLF-W Located in a depressional pastured floodplain of K	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1) True Aquatic Plants (	
High Water Table (A2) Hydrogen Sulfide Od	
Saturation (A3) ✓ Oxidized Rhizosphere	
Water Marks (B1) Presence of Reduced	
Sediment Deposits (B2) Recent Iron Reductio	
Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4) Other (Explain in Ren	
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Aquatic Fauna (B13)	Microtopographic Relief (D4)  ✓ FAC-Neutral Test (D5)
Field Observations:	TAC-Neutral rest (D3)
Surface Water Present? Yes _ ✓ No Depth (inches): 2"	
Water Table Present? Yes No ✓ Depth (inches):	
Saturation Present? Yes No _ ✓ Depth (inches): (includes capillary fringe)	wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Meets indicators A1, C3, D2, and D5.	

# **VEGETATION** (Four Strata) – Use scientific names of plants.

	Absolute		t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30' r )		Species'		Number of Dominant Species
1			<del></del>	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Description of Description
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6.				(VB)
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
·	0	= Total Co		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' r )		- Total Co	WEI	FACW species x 2 =
1				FAC species x 3 =
2.				FACU species x 4 =
3.				UPL species x 5 =
				Column Totals: (A) (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
10			<u> </u>	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
ri -	0	= Total Co	ver	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' r )				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Typha x glauca	40	Yes	OBL	residential rydrophylic regolation (Explain)
2. Scirpus cyperinus	10	No	FACW	1 Indicators of budge soil and watland budgelogy must
3. Schoenoplectus tabernaemontani	12	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Solidago gigantea	10	No	FACW	Definitions of Four Vegetation Strata:
5. Phragmites australis	20	Yes	FACW	Definitions of Four Vegetation official.
6. Eupatorium perfoliatum	10	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7.				more in diameter at breast height (DBH), regardless of height.
8				noight.
				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10		-		Herb – All herbaceous (non-woody) plants, regardless
11			. ———	of size, and woody plants less than 3.28 ft tall.
12		·		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' r )	102	= Total Co	ver	height.
1.		· <del></del>		
2		· ——	<del></del>	
3				
4				Hydrophytic
5				Vegetation
6				Present? Yes No
0				
0.	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	
	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	0	= Total Co	ver	

SOIL

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i	indicator	or confirm	n the ab	sence of indicat	ors.)	
Depth	Matrix			x Feature	1	. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc²	Text	ure	Remarks	
0-12	7.5 YR 4/2	93	5 YR 5/6	7	С	PL	SiCL			
										_
						· ——				
						. ——				
					-	· <del></del>	-	<del></del>		
					. —	· <del></del>		<del></del>		
				_						
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion. RM=	Reduced Matrix. M	S=Masked	d Sand G	rains.	<sup>2</sup> Location	on: PL=Pore Lin	ing. M=Matrix.	
Hydric Soil		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Troubou maan, m				20001	Indicators for F		dric Soils³:
Histosol			Dark Surface	e (S7)				2 cm Muck	_	
	oipedon (A2)		Polyvalue Be		ce (S8) <b>(</b> I	MLRA 147,	, 148)	Coast Prairi		,
Black Hi			Thin Dark S				•	(MLRA 1		
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (	(F2)			Piedmont F	loodplain Soils	(F19)
	d Layers (A5)		✓ Depleted Ma					(MLRA 1		
	ick (A10) (LRR N)		Redox Dark	•	,				w Dark Surface	, ,
	d Below Dark Surfac	e (A11)	Depleted Da					Other (Expl	ain in Remarks	)
	ark Surface (A12)	I DD N	Redox Depre			(LDD N				
	lucky Mineral (S1) <b>(</b> l <b>\ 147, 148)</b>	LKK N,	Iron-Mangar MLRA 13		es (F12)	(LKK N,				
	Gleyed Matrix (S4)		Umbric Surfa	•	(MIRA 1	36 122)		<sup>3</sup> Indicators of I	nydrophytic veg	etation and
	ledox (S5)		Piedmont Flo			-	48)		Irology must be	
-	Matrix (S6)		Red Parent I			-	-		rbed or problen	
	_ayer (if observed)	:		•	, ,		ĺ		· · · · · · · · · · · · · · · · · · ·	
Type:										
Depth (inc	ches):						Hydri	ic Soil Present?	Yes ✓	No
Remarks:	,		<u> </u>						<u>'</u>	<u> </u>
	turbed from st	trip mini	na. meets inc	dicator	F3					
			9,		-					

Project/Site: Harrison Power 138-kV Transmission Line Project City/C	County: Harrison County	Sampling Date: 10/10/2017		
Applicant/Owner: Jingoli	County: Harrison County State: OH	Sampling Point: KLF-SP26		
Investigator(s): Jill Vovaris Section		<u> </u>		
Landform (hillslope, terrace, etc.): Hillslope Local rel		Slone (%): 5		
Subregion (LRR or MLDA): LRR N Let: 40.19600185	Leng: -81.02228993	Glope (70):		
Subregion (LRR or MLRA): LRR N Lat: 40.19600185  Soil Map Unit Name: Morristown channery silty clay loam, 8 to 25 percent slope	pes, stony NWI classifi	cation: N/A		
Are climatic / hydrologic conditions on the site typical for this time of year? Y	/es ✓ No (If no explain in F	Remarks )		
Are Vegetation ✓, Soil ✓, or Hydrology significantly distur		•		
Are Vegetation, Soil, or Hydrology naturally problems				
SUMMARY OF FINDINGS – Attach site map showing sam		s, important features, etc.		
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:		No_✓		
Sample area serves as a upland representative ear Located in a pasture adjacent to KLF-STREAM05.		rbed from strip mining.		
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil	l Cracks (B6)		
Surface Water (A1) True Aquatic Plants (	(B14) Sparsely Ve	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2) Hydrogen Sulfide Od		atterns (B10)		
Saturation (A3) Oxidized Rhizospher				
Water Marks (B1) Presence of Reduced		Water Table (C2)		
Sediment Deposits (B2) Recent Iron Reductio				
Drift Deposits (B3) Thin Muck Surface (C		/isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Other (Explain in Rer		Stressed Plants (D1)		
Iron Deposits (B5)		Position (D2)		
Inundation Visible on Aerial Imagery (B7)	Shallow Aqu			
Water-Stained Leaves (B9)		aphic Relief (D4)		
Aquatic Fauna (B13)	FAC-Neutra	I Test (D5)		
Field Observations:				
Surface Water Present? Yes No _ ✓ Depth (inches):				
Water Table Present? Yes No Depth (inches):		1		
Saturation Present? Yes No _✓ Depth (inches): (includes capillary fringe)	Wetland Hydrology Prese	nt? Yes No _✓		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:			
Remarks:				
No indicators met				

#### VEGETATION (Four Strata) - Use scientific names of plants.

Tree Stratum (Plot size: 30' r )

Sapling/Shrub Stratum (Plot size: 15' r )

Herb Stratum (Plot size: 5' r )

1. Phleum pratense

3. Trifolium pratense

Daucus carota

5 Dactylis glomerata

Schedonorus pratensis

Absolute Dominant Indicator

% Cover Species? Status

0 \_ = Total Cover

= Total Cover

Nο

Yes

Nο

Nο

Yes

90 \_ = Total Cover

0 = Total Cover

FACU

FACU

FACU

UPL

FACU

Vegetation

Present?

Sampling Point: KLF-SP26 Dominance Test worksheet: **Number of Dominant Species** That Are OBL, FACW, or FAC: \_\_\_\_(A) **Total Number of Dominant** 2 (B) Species Across All Strata: Percent of Dominant Species \_\_\_ (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in Hydrophytic

Remarks:	(Include photo	numbers	here or on	a separate she	et.)
----------	----------------	---------	------------	----------------	------

No indicators met

12. \_\_\_\_\_

Woody Vine Stratum (Plot size: 30' r

Yes \_\_\_\_ No \_\_\_\_

Profile Desc	ription: (Describe	to the depti	n needed to docum	nent the ir	ndicator	or confirm	the abs	ence of indicate	ors.)		
Depth	Matrix		Redo	x Features	<u> </u>						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Textu</u>	ire	Remarks		
0-6	7.5 YR 4/3	100					SiCL				
6-12	10 YR 4/4	100					SiC				
				. ——				<del></del> -			
								<del></del>			
	ncentration, D=Dep	letion, RM=I	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		n: PL=Pore Lini			_
Hydric Soil I	ndicators:						I	Indicators for P	roblematic H	lydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)			_	2 cm Muck (	A10) <b>(MLRA</b>	147)	
Histic Ep	ipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148)	Coast Prairie	e Redox (A16	)	
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	47, 1 <b>48</b> )		
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	<del>-</del> 2)		-	Piedmont FI	oodplain Soils	s (F19)	
	Layers (A5)		Depleted Ma					(MLRA 1			
	ck (A10) <b>(LRR N)</b>		Redox Dark		•		•		w Dark Surfac		)
	Below Dark Surfac	e (A11)	Depleted Dar					Other (Expla	ain in Remark	s)	
	rk Surface (A12)		Redox Depre								
	ucky Mineral (S1) (I	LRR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,					
	147, 148)		MLRA 13	-		0 400)		31			
	leyed Matrix (S4)		Umbric Surfa				10)	<sup>3</sup> Indicators of h		-	
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) wetland hydrology must be purple unless disturbed or problems								τ,
	Matrix (S6)		Red Parent N	nateriai (F2	21) (WLK	A 127, 147	')	uniess distu	rbed or proble	matic.	
_	ayer (if observed)										
Type:			<del></del>								,
Depth (inc	ches):		<del></del>				Hydric	Soil Present?	Yes	_ No_	<u> </u>
Remarks:											
No indica	ators met										

Project/Site: Harrison Power 138-kV Transmission Line Project Cit	y/County: Harrison County		Sampling Date: 10/10/2017		
Applicant/Owner: Jingoli	· · ·	State: OH	Sampling Date: 10/10/2017  Sampling Point: KLF-SP27		
Investigator(s): Robert Maggiore, Jill Vovaris, Britton Burnworth Se					
Landform (hillslope, terrace, etc.): Footslope Local			Slone (%). 3		
Subregion (LRR or MLRA). LRR N Let. 40.20511499	Long81.0	)3081851	Glope (70):		
Subregion (LRR or MLRA): LRR N Lat: 40.20511499  Soil Map Unit Name: Morristown channery silt loam, 25 to 70 percent slope	s. boulderv	NIVA/I ala asifisa	Datum		
Are climatic / hydrologic conditions on the site typical for this time of year?			,		
Are Vegetation, Soil, or Hydrology significantly dis			resent? Yes _ V No		
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, e	xplain any answer	s in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locatio	ns, transects,	important features, etc.		
Hydrophytic Vegetation Present? Yes ✓ No		is disturbed	No from strip mining		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (			
Surface Water (A1) True Aquatic Plant		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)  Hydrogen Sulfide	• •	Drainage Patt			
	neres on Living Roots (C3)	Moss Trim Lir			
Water Marks (B1) Presence of Redu	-		Vater Table (C2)		
	ction in Tilled Soils (C6)	Crayfish Burro			
Drift Deposits (B3) Thin Muck Surface	e (C7)	Saturation Vis	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Other (Explain in F	Remarks)	Stunted or Str	ressed Plants (D1)		
Iron Deposits (B5)		✓ Geomorphic F	Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)			
✓ Water-Stained Leaves (B9)		Microtopographic Relief (D4)			
Aquatic Fauna (B13)		✓ FAC-Neutral	Fest (D5)		
Field Observations:					
Surface Water Present? Yes No Depth (inches): _					
Water Table Present? Yes No ✓ Depth (inches): _					
Saturation Present? Yes No _✓ Depth (inches): (includes capillary fringe)	Wetland H	ydrology Present	!? Yes <u> </u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if ava	ilable:			
Remarks:					
Meets indicators B9, C3, D2, and D5.					

# **VEGETATION** (Four Strata) – Use scientific names of plants.

001	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: 30' r )		Species?		Number of Dominant Species	
1. Salix nigra	25	Yes	OBL		(A)
2. Populus tremuloides	10	No	FAC	Total Number of Deminent	
3. Acer negundo	20	Yes	FAC	Total Number of Dominant Species Across All Strata:  4	(B)
4.					(-)
				Percent of Dominant Species That Are ORL FACW or FAC: 100	
5				That Are OBL, FACW, or FAC:	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8					- 1
	55	= Total Cov	er er	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' r )				FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
3.				UPL species x 5 =	
				Column Totals: (A)	
4				Coldini rotalo (//	(5)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	_
7				1 - Rapid Test for Hydrophytic Vegetation	
8					
9				✓ 2 - Dominance Test is >50%	
10				3 - Prevalence Index is ≤3.0¹	
-	0	= Total Cov	er er	4 - Morphological Adaptations <sup>1</sup> (Provide supp	orting
Herb Stratum (Plot size: 5' r )		- Total Oov	Ci	data in Remarks or on a separate sheet)	
1. Carex lurida	15	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
Symphyotrichum lateriflorum	10	Yes	FACW		
				<sup>1</sup> Indicators of hydric soil and wetland hydrology m	ust
3			-	be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Total Washington to such allowing of the (7.0 a	>
6				Tree – Woody plants, excluding vines, 3 in. (7.6 c more in diameter at breast height (DBH), regardle	
7				height.	00 01
8					
9.				Sapling/Shrub – Woody plants, excluding vines,	less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regard	lless
11				of size, and woody plants less than 3.28 ft tall.	
12				Woody vine All woody vines greater than 3.28 t	tin
20'5	25	= Total Cov	er er	<b>Woody vine</b> – All woody vines greater than 3.28 height.	CIII
Woody Vine Stratum (Plot size: 30' r )					
1					
2					
3					
4					
5.				Hydrophytic	
				Vegetation	
6				1103CH1: 103 NO	
		= Total Cov	er		
Remarks: (Include photo numbers here or on a separate sep		listurbe	d due to	cattle	

SOIL

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	n the abser	nce of indicators.)	
Depth	Matrix			ox Feature	1				
(inches)	Color (moist)		Color (moist)	%	Type'	Loc²	Texture	Remarks	
0-12	7.5 YR 4/2	90	5 YR 5/6	10	<u>C</u>	PL	SiC		
				_					
				_		· <del></del>			
	-	<del></del>							
	•			_	•				
				_	· ———				
	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	d Sand G	ains.		PL=Pore Lining, M=Matrix.	
Hydric Soil								dicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol			Dark Surface	. ,				_ 2 cm Muck (A10) (MLRA 147)	
	oipedon (A2)		Polyvalue Bo				, 148)	Coast Prairie Redox (A16)	
	stic (A3)		Thin Dark Si Loamy Gley			147, 148)		(MLRA 147, 148)	
	en Sulfide (A4) d Layers (A5)		Loamy Gley		(FZ)			_ Piedmont Floodplain Soils (F19) (MLRA 136, 147)	
	ick (A10) <b>(LRR N)</b>		Redox Dark	. ,	<del>-</del> 6)			Very Shallow Dark Surface (TF12)	
	d Below Dark Surfac	e (A11)	Depleted Da	•	,			Other (Explain in Remarks)	
Thick Da	ark Surface (A12)		Redox Depr	essions (F	8)				
	lucky Mineral (S1) (	LRR N,	Iron-Mangar	nese Mass	es (F12)	(LRR N,			
	A 147, 148)		MLRA 13	•			2		
	Sleyed Matrix (S4)		Umbric Surfa		-	-	<sup>3</sup> Indicators of hydrophytic vegetation and		
-	Redox (S5)		Piedmont Fl			-			
	Matrix (S6)  Layer (if observed)		Red Parent I	viateriai (F	·21) (MLF	KA 127, 147	<i>(</i> )	unless disturbed or problematic.	
Type:							I localada C	Soil Present? Yes ✓ No	
Depth (inc	cnes):						Hydric S	Soil Present? Yes No	
	turbed from s								

Project/Site: Harrison Power 138-kV Transmission Line Project City/C	county: Harrison County Sampling Date: 10/10/2017
Applicant/Owner: Jingoli	county: Harrison County Sampling Date: 10/10/2017  State: OH Sampling Point: KLF-SP28
Investigator(s): Robert Maggiore, Jill Vovaris, Britton Burnworth Section	
Landform (hillslope terrace etc.). Hillslope	lef (concave, convey, none). none Slone (%), 5
Cubranian (IRR or MIRA). LRR N 40.20508483	Slope (70) Slope (70) NAD 83
Subregion (LRR or MLRA): LRR N Lat: 40.20508483  Soil Map Unit Name: Morristown channery silt loam, 25 to 70 percent slopes, but the control of the control	Long:Datum:Datum:
Soil Map Unit Name:	NWI classification: 1471
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing same	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No _ ✓  Wetland Hydrology Present?  Yes No _ ✓	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Sample area serves as a upland representative loc cattle and is situated in a in a forested area.	ated east of REF-SF27. The site is disturbed from
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (	
High Water Table (A2) Hydrogen Sulfide Odd	
Saturation (A3) Oxidized Rhizosphere	
Water Marks (B1) Presence of Reduced Sediment Deposits (B2) Recent Iron Reductio	
Sediment Deposits (B2) Recent Iron Reductio Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4) Other (Explain in Ren	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No ✓ Depth (inches):	
Saturation Present? Yes No _ ✓ Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vious inspections), ii available.
Remarks:	
No indicators met	
INO Indicators met	
1	

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Tree Stratum (Plot size: 30' r )  1. Juglans nigra	Absolute	Dominant	Indicator	Dominance Test worksheet:	
1	% Cover	Species?	Status	Number of Dominant Species	
	20	Yes	FACU	That Are OBL, FACW, or FAC: $\frac{1}{2}$ (A	١)
2. Fraxinus americana	20	Yes	FACU		,
Robinia pseudoacacia	25	Yes	FACU	Total Number of Dominant Species Across All Strata:  6 (B	2)
				Species Across Air Strata.	')
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 16 (A	√B)
6				Prevalence Index worksheet:	
7					
8				Total % Cover of: Multiply by:	
	65	= Total Cov	er	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' r )				FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
3.				UPL species x 5 =	
				Column Totals: (A) (	B)
4				Column rotals (A) (	رد,
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7					
8				1 - Rapid Test for Hydrophytic Vegetation	
9				2 - Dominance Test is >50%	
10.				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	0	= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide suppor	ting
Herb Stratum (Plot size: 5' r )		- Total Cov	Ci	data in Remarks or on a separate sheet)	
1 Phalaris arundinacea	20	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2 Symphyotrichum ericoides	10	Yes	FACU		
3. Arctium minus	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	t
				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				- W	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless	or of
7				height.	01
8					
9.				Sapling/Shrub – Woody plants, excluding vines, les	ss
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardle	ess
11.				of size, and woody plants less than 3.28 ft tall.	
12				Woody vine All woody vines greater than 2.29 ft i	n
2014	45	= Total Cov	er	Woody vine – All woody vines greater than 3.28 ft i height.	n
Woody Vine Stratum (Plot size: 30' r )				noight.	
1					
2					
3					
4.				Hydrophytic	
4				Vegetation Present? Yes No ✓	
5					
		 = Total Cov		Present? Yes No	

	-	_	n needed to document the indicator or confirm	n the abso	ence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Textu	re Remarks
0-5	7.5 YR 4/3	100		SiCL	
5-12	10 YR 4/4	100		SiC	
		<u> </u>		-	
	-				
¹Type: C=C	oncentration D=D	enletion RM=F	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil		epiedori, ravi	teddeed Matrix, Me Macrea Garia Grains.		ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)		2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 147,	, 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 148)	, -	(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)	-	Very Shallow Dark Surface (TF12)
	d Below Dark Surfa ark Surface (A12)	ace (A11)	<ul><li>Depleted Dark Surface (F7)</li><li>Redox Depressions (F8)</li></ul>	-	Other (Explain in Remarks)
	Aucky Mineral (S1)	(I RR N	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)	(LIXIX IV,	MLRA 136)		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 14	<b>48</b> )	wetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observe	d):			
Type:			<u> </u>		
Depth (in	ches):			Hydric	Soil Present? Yes No _✓
Remarks:				<u> </u>	
No indica	ators met				

Project/Site: Harrison Power 138-kV Transmission Line Project City/Coun	ty: Harrison County Sampling Date: 10/10/2017				
Applicant/Owner: Jingoli	ty:         Harrison County         Sampling Date:         10/10/2017           State:         OH         Sampling Point:         KLF-SP29				
	Fownship, Range: Athens				
Landform (hillslope, terrace, etc.): Toe-of-slope Local relief (					
Subregion (LRR or MLRA): LRR N Lat: 40.21053847  Soil Map Unit Name: Udorthents-Pits complex	Long: Datum: Datum:				
Soil Map Unit Name:	NWI classification: N/A				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes_					
Are Vegetation, Soil, or Hydrology significantly disturbed	? Are "Normal Circumstances" present? Yes No				
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map showing sampli	ng point locations, transects, important features, etc.				
	the Sampled Area				
Hydric Soil Present? Yes _ ✓ No wi  Wetland Hydrology Present? Yes _ ✓ No	thin a Wetland? Yes No				
Remarks:					
Sample area serves as a representative for KLF-WE	FLAND14 and is disturbed from strip mining				
Located in a depressional pastured swale.	LAND 14 and is disturbed from strip mining.				
Located in a depressional pastured swale.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) True Aquatic Plants (B14	, , , , ,				
High Water Table (A2) Hydrogen Sulfide Odor (0					
Saturation (A3) Oxidized Rhizospheres o					
Water Marks (B1) Presence of Reduced Iro Sediment Deposits (B2) Recent Iron Reduction in					
Sediment Deposits (B2) Recent from Reduction in Thin Muck Surface (C7)	Tilled Soils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Other (Explain in Remark					
Iron Deposits (B5)	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	Microtopographic Relief (D4)				
Aquatic Fauna (B13)	✓ FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No Depth (inches):					
Water Table Present? Yes No _ ✓ Depth (inches):					
Saturation Present? Yes No V Depth (inches):					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	s inspections), if available:				
Remarks:					
Meets indicators C3, D2, and D5.					

#### VEGETATION (Four Strata) - Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 30' r )

Sapling/Shrub Stratum (Plot size: 15'r)

Herb Stratum (Plot size: 5' r )

1. Phalaris arundinacea

2. Carex lurida

3. Echinochloa crus-galli

Absolute Dominant Indicator

% Cover Species? Status

0 \_ = Total Cover

0 = Total Cover

No

Yes

= Total Cover

FACW

OBL

FAC

Hydrophytic Vegetation

Present?

Com	nling Doint: KLF-S	SP29			
·	pling Point:				
Dominance Test worksheet:					
Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)			
Total Number of Dominant Species Across All Strata:	2	(B)			
Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)			
Prevalence Index worksheet:					
Total % Cover of:	Multiply by:	_			
OBL species >	(1 =	_			
	(2 =				
	(3 =				
FACU species >	(4 =	_			
UPL species >	(5 =	_			
Column Totals: (A	A)	_ (B)			
Prevalence Index = B/A =		_			
Hydrophytic Vegetation Indic	ators:				
1 - Rapid Test for Hydrophy	, ,				
✓ 2 - Dominance Test is >50°					
3 - Prevalence Index is ≤3.					
4 - Morphological Adaptation data in Remarks or on a		porting			
Problematic Hydrophytic Ve	egetation <sup>1</sup> (Explai	n)			
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
<b>Definitions of Four Vegetation</b>	n Strata:				
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.					
<b>Sapling/Shrub</b> – Woody plants than 3 in. DBH and greater than					
<b>Herb</b> – All herbaceous (non-wo of size, and woody plants less t		dless			
Woody vine – All woody vines	greater than 3.28	ft in			

3.	 	
	0	<b>-</b> .

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine Stratum (Plot size: 30' r )

Passes dominance test

Yes ✓ No

SOIL

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i	indicator	or confirm	n the ab	sence of indicat	ors.)	
Depth	Matrix			x Feature	1	. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc²	Text	ure	Remarks	
0-12	7.5 YR 4/2	93	5 YR 5/6	7	С	PL	SiCL			
										_
						· ——				
						·				
						· <del></del>	-	<del></del>		
					. —	· <del></del>		<del></del>		
				_						
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion. RM=	Reduced Matrix. M	S=Masked	d Sand G	rains.	<sup>2</sup> Location	on: PL=Pore Lin	ing. M=Matrix.	
Hydric Soil		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Troubou maan, m				20001	Indicators for F		dric Soils³:
Histosol			Dark Surface	e (S7)				2 cm Muck	_	
	oipedon (A2)		Polyvalue Be		ce (S8) <b>(</b> I	MLRA 147,	, 148)	Coast Prairi		,
Black Hi			Thin Dark S				•	(MLRA 1		
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (	(F2)			Piedmont F	loodplain Soils	(F19)
	d Layers (A5)		✓ Depleted Ma					(MLRA 1		
	ick (A10) (LRR N)		Redox Dark	•	,				w Dark Surface	, ,
	d Below Dark Surfac	e (A11)	Depleted Da					Other (Expl	ain in Remarks	)
	ark Surface (A12)	I DD N	Redox Depre			(LDD N				
	lucky Mineral (S1) <b>(</b> l <b>\ 147, 148)</b>	LKK N,	Iron-Mangar MLRA 13		es (F12)	(LKK N,				
	Gleyed Matrix (S4)		Umbric Surfa	•	(MIRA 1	36 122)		<sup>3</sup> Indicators of I	nydrophytic veg	etation and
	ledox (S5)		Piedmont Flo			-				
-	Matrix (S6)		Red Parent I			-	-		rbed or problen	
	_ayer (if observed)	:		•	, ,		ĺ		· · · · · · · · · · · · · · · · · · ·	
Type:										
Depth (inc	ches):						Hydri	ic Soil Present?	Yes ✓	No
Remarks:	,		<u> </u>						<u>'</u>	<u> </u>
	turbed from st	trip mini	na. meets inc	dicator	F3					
			9,		-					

Project/Site: Harrison Power 138-kV Transmission Line Project City/C	County: Harrison County Sampling Date: 10/10/2017
Applicant/Owner: Jingoli	County: Harrison County Sampling Date: 10/10/2017  State: OH Sampling Point: KLF-SP30
	on, Township, Range: Athens
Landform (hillslope, terrace, etc.): Hillslope Local reli	
Subregion (LRR or MLRA): LRR N Lat: 40.21064258  Soil Map Unit Name: Udorthents-Pits complex	Long:Datum:Datum:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sam	pling point locations, transects, important features, etc.
	<u></u>
Hydrophytic Vegetation Present? Yes No ✓	Is the Sampled Area
Hydric Soil Present? Yes No _ ✓ Wetland Hydrology Present? Yes No _ ✓	within a Wetland? Yes No
Remarks:	
Sample area serves as a upland representative in	a nastured swale north of KI F-SP29 and is
disturbed from strip mining.	a pastared swale florth of NET -of 25 and is
disturbed from strip mining.	
LIVEROLOGY	
HYDROLOGY	Consider Indicator (minimum of two year ined)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (I High Water Table (A2) Hydrogen Sulfide Odd	
Saturation (A3) Oxidized Rhizosphere	
Water Marks (B1) Presence of Reduced	
Sediment Deposits (B2)  Recent Iron Reductio	
Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4) Other (Explain in Ren	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches):	
Water Table Present? Yes No ✓ Depth (inches):	
Saturation Present? Yes No ✓ Depth (inches):	Wetland Hydrology Present? Yes No✓
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
	,,
Remarks:	
No indicators met	

#### VEGETATION (Four Strata) - Use scientific names of plants.

Sampling Point: KLF-SP30 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' r ) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: \_\_\_\_(A) **Total Number of Dominant** 2 (B) Species Across All Strata: Percent of Dominant Species \_\_\_ (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ 0 \_ = Total Cover Sapling/Shrub Stratum (Plot size: 15' r ) FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> 4 - Morphological Adaptations<sup>1</sup> (Provide supporting 0 = Total Cover data in Remarks or on a separate sheet) Herb Stratum (Plot size: 5' r ) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Nο FACU Yes FACU <sup>1</sup>Indicators of hydric soil and wetland hydrology must Nο FACU be present, unless disturbed or problematic. Nο UPL **Definitions of Four Vegetation Strata:** 30 Yes FACU Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or No FACU more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in <sup>105</sup> = Total Cover Woody Vine Stratum (Plot size: 30' r Hydrophytic Vegetation Yes \_\_\_\_ No \_\_\_\_ Present? = Total Cover

Remarks: (Include photo numbers here or on a separate sheet.)

No indicators met

1. Cirsium vulgare

3. Trifolium pratense

Daucus carota

5 Dactylis glomerata

6. Phleum pratense

7. \_

Schedonorus pratensis

Profile Desc	ription: (Describe	to the depti	n needed to docum	nent the ir	ndicator	or confirm	the abs	ence of indicat	ors.)		
Depth	Matrix		Redo	x Features	3						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Textu</u>	ire	Remarks		
0-4	7.5 YR 4/3	100					SiCL				
4-12	10 YR 4/4	100					SiC				
				. ——							
-	-										
	ncentration, D=Dep	letion, RM=I	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		n: PL=Pore Lini			_
Hydric Soil I	ndicators:						I	Indicators for P	roblematic H	lydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)			_	2 cm Muck (	A10) <b>(MLRA</b>	147)	
Histic Ep	ipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148)	Coast Prairi	e Redox (A16	)	
Black His	stic (A3)		Thin Dark Su		-	47, 148)		(MLRA 1			
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	<del>-</del> 2)		-	Piedmont FI	oodplain Soils	s (F19)	
	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 1			
	ck (A10) <b>(LRR N)</b>		Redox Dark		•		•		w Dark Surfac		)
	Below Dark Surfac	e (A11)	Depleted Dar					Other (Expl	ain in Remark	s)	
	irk Surface (A12)		Redox Depre								
	lucky Mineral (S1) (I	LRR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,					
	147, 148)		MLRA 13	-		0 400)		31			
	leyed Matrix (S4)		Umbric Surfa				10)	<sup>3</sup> Indicators of h		-	
	edox (S5)		Piedmont Flo						rology must b		τ,
	Matrix (S6)		Red Parent N	nateriai (F2	21) (WLK	A 127, 147	')	uniess distu	rbed or proble	matic.	
_	ayer (if observed)										
Туре:			<del></del>								,
Depth (inc	ches):						Hydric	Soil Present?	Yes	_ No_	<u> </u>
Remarks:											
No indica	ators met										

Project/Site: Harrison Power 138-kV Transmission Line Project Cit	ty/County: Harrison County	Sampling Date: 10/10/2017			
Applicant/Owner: Jingoli	ty/County: Harrison County State: OF	Sampling Point: KLF-SP31			
Investigator(s): Robert Maggiore, Jill Vovaris, Britton Burnworth Se	ection, Township, Range: Athens				
Landform (hillslope, terrace, etc.): Toe-of-slope Local	relief (concave, convex, none): none	Slope (%): <sup>2</sup>			
Subregion (LRR or MLRA): LRR N Lat. 40.22176982	Long: -81.03424539	Datum: NAD 83			
Subregion (LRR or MLRA): LRR N Lat: 40.22176982  Soil Map Unit Name: Morristown channery silty clay loam, 8 to 25 percent states.	slopes, stony NWI cl	assification: N/A			
Are climatic / hydrologic conditions on the site typical for this time of year'					
Are Vegetation, Soil _ ✓, or Hydrology _ ✓ significantly dis		ces" present? Yes No			
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any a	answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing s		ects, important features, etc.			
Hydrophytic Vegetation Present?         Yes	Is the Sampled Area within a Wetland? Yes _	No <b>✓</b>			
Sample area serves as a upland representative pastured swale.	and is disturbed from strip	mining. Located in a			
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary	Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface	e Soil Cracks (B6)			
Surface Water (A1) True Aquatic Plan	its (B14) Sparse	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2) Hydrogen Sulfide	Odor (C1) Draina	Drainage Patterns (B10)			
Saturation (A3) Oxidized Rhizosp	heres on Living Roots (C3) Moss T	Roots (C3) Moss Trim Lines (B16)			
Water Marks (B1) Presence of Redu	iced Iron (C4) Dry-Se	ason Water Table (C2)			
Sediment Deposits (B2) Recent Iron Redu	ction in Tilled Soils (C6) Crayfis	h Burrows (C8)			
Drift Deposits (B3) Thin Muck Surface	e (C7) Satura	tion Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Other (Explain in	Remarks) Stunter	d or Stressed Plants (D1)			
Iron Deposits (B5)	Geomo	orphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)	Shallov	v Aquitard (D3)			
Water-Stained Leaves (B9)	Microto	ppographic Relief (D4)			
Aquatic Fauna (B13)	FAC-N	eutral Test (D5)			
Field Observations:					
Surface Water Present? Yes No ✓ Depth (inches): _					
Water Table Present? Yes No _ ✓ Depth (inches): _					
Saturation Present? Yes No ✓ Depth (inches): _		resent? Yes No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:				
Remarks:					
No indicators met					

### VEGETATION (Four Strata) - Use scientific names of plants.

% Cover Species? Status

<sup>0</sup> \_\_\_\_ = Total Cover

0 = Total Cover

Nο

Yes

Yes

No

No

Yes

= Total Cover

0 = Total Cover

FACU

FACU

UPL

FACU

FACU

FACU

Tree Stratum (Plot size: 30' r )

Sapling/Shrub Stratum (Plot size: 15'r)

Herb Stratum (Plot size: 5' r )

1. Erigeron philadelphicus

2. Schedonorus pratensis

Trifolium pratense

Phleum pratense

Daucus carota

5. Plantago major

7. Oxalis stricta

(A) (B) (A/B)
(B) (A/B)
(B) (A/B)
(A/B)
- - - - -
- - - -
- - - -
- - -
- - -
- - -
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oorting
n)
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cm) or ess of
less
dless
ft in

Remarks:	(Inclu	de photo	numbers	here o	r on a	a separa	te s	heet.	.)
----------	--------	----------	---------	--------	--------	----------	------	-------	----

No indicators met

Woody Vine Stratum (Plot size: 30' r

	Matrix		Redox Features	<b>-</b> .	Б
inches) -5	Color (moist) 10 YR 4/3	<u>%</u> 100	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture SiCL	Remarks
	10 11 4/3			SICL	<del> </del>
<u> </u>					Rock refusal
				· <del></del>	
					_
					<u> </u>
		pletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
dric Soil I	Indicators:			Ind	icators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol			Dark Surface (S7)	_	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 147	', 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	Piedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		<ul><li>Depleted Matrix (F3)</li><li>Redox Dark Surface (F6)</li></ul>		(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	d Below Dark Surfa	ce (A11)	Redox Dark Surface (F6) Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	00 (/ (11)	Redox Depressions (F8)	_	Curer (Explain in Remarks)
	Mucky Mineral (S1)	(LRR N,	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)	,	MLRA 136)		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> lı	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 1	48)	wetland hydrology must be present,
	l Matrix (S6)		Red Parent Material (F21) (MLRA 127, 14	7)	unless disturbed or problematic.
	Layer (if observed	):			
Type: Roo	ck				_
	. , 5"			Hydric So	oil Present? Yes No <u>√</u>
Depth (inc	ches): <u> </u>				
Depth (inc	ches):				
Depth (incernation)					
Depth (incemarks:	ators met				
Depth (incemarks:					
Depth (incemarks:					
Depth (incemarks:					
Depth (incemarks:					
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Depth (incemarks:					
Depth (incemarks:					
Depth (incernation)					
Depth (incemarks:					
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Depth (incemarks:					
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Depth (incertains)					
Depth (incertains)					
Depth (incemarks:					
Depth (incemarks:					
Depth (inc					
Depth (inc					
Depth (inc					

Project/Site: Harrison Power 138-kV Transmission Line Project City/C	County: Harrison County Sampling Date: 10/10/2017
Applicant/Owner: Jingoli	County: Harrison County Sampling Date: 10/10/2017 State: OH Sampling Point: KLF-SP32
	on, Township, Range: Cadiz
Landform (hillslope, terrace, etc.): Footslope Local rel	•
Subsection (LBB or MLBA): LRR N Lat: 40.22867663	Long81.03368286 Datum: NAD 83
Subregion (LRR or MLRA): LRR N Lat: 40.22867663  Soil Map Unit Name: Morristown channery silty clay loam, 8 to 25 percent slope	pes, stony NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation ✓ , Soil ✓ , or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	
Hydrophytic Vegetation Present? Yes ✓ No	
Hydric Soil Present? Yes ✓ No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes ✓ No	within a Wetland: 165 No
Remarks:	
Sample area serves as a representative for emerg	ent KLF-WETLAND16 and is disturbed from strip
mining	·
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (	· · · · · · · · · · · · · · · · · · ·
High Water Table (A2) Hydrogen Sulfide Od	
Saturation (A3) Oxidized Rhizospher	
Water Marks (B1) Presence of Reduced	
Sediment Deposits (B2) Recent Iron Reduction	
Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4) Other (Explain in Rer Iron Deposits (B5)	marks) Stunted or Stressed Plants (D1)  _✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	✓ FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches):	
Water Table Present? Yes No _ ✓ Depth (inches):	
Saturation Present? Yes No ✓ Depth (inches):	
(includes capillary fringe)	visus in a setional life unitable
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious irispections), ir available.
Remarks:	
Meets indicators B10, D2, and D5.	

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point:		
	KLF-SP32	

001	Absolute			Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: 30' r )		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	(A)
2				Total Number of Deminent	
3				Total Number of Dominant Species Across All Strata:  3 (	(B)
4.					(-)
				Percent of Dominant Species That Are ORL FACW or FAC: 100	
5.				That Are OBL, FACW, or FAC: 100 (	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8					•
	0	= Total Co	ver	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' r )				FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
3.				UPL species x 5 =	
				Column Totals: (A)	
4				(1)	(5)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8					
9				✓ 2 - Dominance Test is >50%	
10.				3 - Prevalence Index is ≤3.0¹	
	0	= Total Co		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	orting
Herb Stratum (Plot size: 5' r )		- Total Co	VCI	data in Remarks or on a separate sheet)	
1. Juncus tenuis	20	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)
2. Carex lurida	30	Yes	OBL		
3. Echinochloa crus-galli	35	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
	10			be present, unless disturbed or problematic.	
Ambrosia artemisiifolia		No	FACU	Definitions of Four Vegetation Strata:	
5. Setaria pumila	5	No	FAC	<b>-</b> W	,
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles	
7				height.	33 01
8.					
				Sapling/Shrub – Woody plants, excluding vines, le	ess
9				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
10	_			Herb – All herbaceous (non-woody) plants, regard	lless
11				of size, and woody plants less than 3.28 ft tall.	
12				Mandy vine All woody vines greater than 2.29 ft	t in
201 -	100	= Total Co	ver	Woody vine – All woody vines greater than 3.28 fl height.	t in
Woody Vine Stratum (Plot size: 30' r )				g	
1					
2					
3					
4.					
5				Hydrophytic	
				Vegetation	
6	_			Fresent? TesNo	
		= Total Co	ver		
Remarks: (Include photo numbers here or on a separate	sheet.)				
Passes dominance test					

Profile Desc	cription: (Describe	to the dep	oth needed to docum	nent the	indicator	or confirn	n the absence	e of indicators.)
Depth	Matrix			c Feature	s .			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	<u>Loc<sup>2</sup></u>	Texture	Remarks
0-8	10 YR 4/2	90	7.5 YR 5/6	10	С	M	SiC	
8+								Rock refusal
		·				. ———		
		· <del></del>				. ——		
		· ———			-			
		·				. ———		
					_			
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	=Maske	d Sand Gr	ains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Bel		ice (S8) <b>(I</b>	VILRA 147,		Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Sui	rface (S9	) (MLRA	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	- (0.4.4)	Redox Dark S	,	,			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Dark Redox Depres		. ,		— '	Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(I</b>	RR N	Iron-Mangane			I RR N		
	A 147, 148)	-1111 14,	MLRA 136		ics (1 12) (	LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfac	-	(MLRA 1	36, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo		-	-		vetland hydrology must be present,
-	Matrix (S6)		Red Parent M			-	-	inless disturbed or problematic.
	Layer (if observed):							
Type: Ro	ck							_
Depth (in	ches): <u>8"</u>						Hydric Soi	I Present? Yes No
Remarks:							-	
Soils dis	turbed from st	rip min	ing, meets ind	icator	F3			
			3,					

Project/Site: Harrison Power 138-kV Transmission Line Project City/County: Harrison County	ty Sampling Date: 10/10/2017			
Applicant/Owner: Jingoli	ty         Sampling Date:         10/10/2017           State:         OH         Sampling Point:         KLF-SP33			
Investigator(s): Robert Maggiore, Jill Vovaris, Britton Burnworth Section, Township, Range:				
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex,				
Landionn (nilisiope, terrace, etc.) Local relief (concave, convex,	31 03371116 S. NAD 83			
Subregion (LRR or MLRA): LRR N Lat: 40.22864493 Long: Soil Map Unit Name: Morristown channery silty clay loam, 8 to 25 percent slopes, stony	Datum: Tatib es			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	_ `			
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal significantly disturbed in the significant sign	nal Circumstances" present? Yes _ 🗸 No			
Are Vegetation, Soil, or Hydrology naturally problematic? (If neede	d, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing sampling point local	tions, transects, important features, etc.			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No _ ✓  Yes No _ ✓  No _ ✓  Within a Wetland?	• /			
Sample area serves as a upland representative for KLF-SP34 and a pastured swale and has been disturbed from strip mining.	d KLF-SP32. The site is located in			
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)			
Saturation (A3) Oxidized Rhizospheres on Living Roots (C				
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)			
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Indit Deposits (B3) Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	Microtopographic Relief (D4)			
Aquatic Fauna (B13)	FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes No _ ✓ Depth (inches):				
Water Table Present? Yes No ✓ Depth (inches):	,			
	d Hydrology Present? Yes No			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	available:			
Remarks:				
No indicators met				
INO Indicators met				

#### VEGETATION (Four Strata) - Use scientific names of plants.

Tree Stratum (Plot size: 30' r )

Sapling/Shrub Stratum (Plot size: 15' r )

Herb Stratum (Plot size: 5' r )

1. Erigeron philadelphicus

12. \_\_\_\_\_

Woody Vine Stratum (Plot size: 30' r

2. Lotus corniculatus

3. Dactylis glomerata

Daucus carota

6.

5. Phleum pratense

Absolute Dominant Indicator

% Cover Species? Status

0 \_ = Total Cover

= Total Cover

FACU

FACU

FACU

UPL

FACU

Yes

No

Yes

Nο

No

95 \_ = Total Cover

0 = Total Cover

Sampling Point: KLF-SP33 Dominance Test worksheet: **Number of Dominant Species** That Are OBL, FACW, or FAC: \_\_\_\_(A) **Total Number of Dominant** 2 (B) Species Across All Strata: Percent of Dominant Species \_\_\_ (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in Hydrophytic Vegetation Yes \_\_\_\_ No \_\_\_\_ Present?

Remarks:	(Include photo	numbers	here or on a	separate shee	et.)
----------	----------------	---------	--------------	---------------	------

No indicators met

Profile Desc	ription: (Describe	to the depth	needed to docun	ent the in	dicator o	r confirm	the abser	nce of indicato	rs.)	
Depth	Matrix		Redox	(Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	Remarks	
0-10	10 YR 4/2	100					SiCL			
10+			_					Rock refus	al	_
		·					-			_
		<del></del>								
	-	<del></del>								
	oncentration, D=Dep	letion, RM=Re	educed Matrix, MS	=Masked	Sand Gra	ins.		PL=Pore Linin		
Hydric Soil I	ndicators:						Inc	dicators for Pr	oblematic Hy	dric Soils <sup>*</sup> :
Histosol			Dark Surface						10) <b>(MLRA 1</b>	47)
	pipedon (A2)		Polyvalue Be				148)	_ Coast Prairie		
Black His			Thin Dark Su		-	47, 148)		(MLRA 14		
	n Sulfide (A4)		Loamy Gleye		2)				odplain Soils	(F19)
	Layers (A5)		Depleted Mat					(MLRA 13	•	(TE40)
	ick (A10) <b>(LRR N)</b> d Below Dark Surfac	o (A11)	Redox Dark S	•	•				Dark Surface in in Remarks	
	ark Surface (A12)	e (ATT)	Depleted Dar Redox Depre				_	_ Other (Expla	III III Remarks	,
	lucky Mineral (S1) <b>(</b> I	RR N	Iron-Mangane			RR N.				
	147, 148)		MLRA 136		o (i 12) <b>(</b> 2					
	leyed Matrix (S4)		Umbric Surfa	-	/ILRA 130	6. 122)	3	Indicators of hy	drophytic yea	etation and
	edox (S5)		Piedmont Flo						ology must be	
-	Matrix (S6)		Red Parent M					-	ped or problen	
	_ayer (if observed):								· ·	
Type: Roo	:k		<u></u>							
Depth (inc			<u> </u>				Hvdric S	Soil Present?	Yes	No ✓
Remarks:			<u> </u>				, ,			
	ators met									
140 maice	ators met									

Project/Site: Harrison Power 138-kV Transmission Line Project City/C	ounty: Harrison County	Sampling Date: 10/10/2017
Applicant/Owner: Jingoli	State	Sampling Date: 10/10/2017  e: OH Sampling Point: KLF-SP34
Investigator(s): Robert Maggiore, Jill Vovaris, Britton Burnworth Section		<u> </u>
Landform (hillslope, terrace, etc.): Toe-of-slope Local reli		ncave Slone (%): 4
Subregion (LRR or MLRA): LRR N Lat: 40.22907686	Long: -81.033936	35 Datum: NAD 83
Subregion (LRR or MLRA): LRR N Lat: 40.22907686 Soil Map Unit Name: Morristown channery silty clay loam, 8 to 25 percent slop	es, stony	Datum
	,	
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation, Soil, or Hydrology significantly disturb		nstances" present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally problems	tic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, to	ransects, important features, etc.
Hydrophytic Vegetation Present? Yes	ent KLF-WETLAND1	
HYDROLOGY		
Wetland Hydrology Indicators:	<u>Secon</u>	ndary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		urface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (		parsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odd		rainage Patterns (B10)
Saturation (A3) ✓ Oxidized Rhizosphere Water Marks (B1) Presence of Reduced		loss Trim Lines (B16) ry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reductio		rayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C		aturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Ren		tunted or Stressed Plants (D1)
Iron Deposits (B5)		eomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	S	hallow Aquitard (D3)
Water-Stained Leaves (B9)	M	licrotopographic Relief (D4)
Aquatic Fauna (B13)	<u>√</u> F	AC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No / Depth (inches):		
Water Table Present? Yes No ✓ Depth (inches):		
Saturation Present? Yes No _✓ Depth (inches): (includes capillary fringe)	Wetland Hydrold	ogy Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Meets indicators B10, C3, D2, and D5.		

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Tree Stratum (Plot size:		Absolute	Dominant		Dominance Test worksheet:	
2						
2	1				That Are OBL, FACW, or FAC: 2	(A)
3.					Total Number of Dominant	
5.					Species Across All Strata: 2	(B)
5.   That Are OBL. FARCW, or FAC:     (A/B)						` ,
Prevalence Index worksheet:   Total S   Cover of:   Multiply by:						(A/D)
Total					That Ale OBE, I ACW, OI I AC.	(A/D)
Saping/Shrub Stratum (Plot size: 15 r					Prevalence Index worksheet:	
Sapiling/Shrub Stratum (Plot size: 15 r   1   1   1   1   1   1   1   1   1					Total % Cover of: Multiply by:	_
FACW species   X 2 =   FACW species   X 3 =   FACW species   X 3 =   FACW species   X 4 =   FACW species   X 2 =	0				OBL species x 1 =	
1.	Sanling/Shrub Stratum (Plot size: 15' r	<del>-</del>	= Total CoV	ver		
2.						
3.						
4						
Prevalence Index = B/A =   Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation   1 - Rapid Test for Hydrophytic Vegetation   2 - 2 - 2 - 2 - 2 - 2 - 3 - 1 - Rapid Test for Hydrophytic Vegetation   2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 3 - 1 - Rapid Test for Hydrophytic Vegetation   2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 3 - 1 - Rapid Test for Hydrophytic Vegetation   2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2						
Flevalence lindex - B/AZ  7.					Column Totals: (A)	(B)
Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation					Prevalence Index = B/A =	
1 - Rapid Test for Hydrophytic Vegetation	6					-
9.	7					
9	8					
10	9				· · · · · · · · · · · · · · · · · · ·	
Herb Stratum (Plot size: 5'r   10 No FAC   2 Schoenoplectus tabermaemontani   30 Yes OBL   3 Echinochloa crus-galli   20 Yes FAC   2 Problematic Hydrophytic Vegetation (Explain)   3 Problematic Hydrophytic Vegetation (Hydrophytic Vegetation Strata:   5 Problematic Hydrophytic Vegetation (Hydrophytic Vegetation (Hydrophytic Vegetation (Hydrophytic Vegetation Present?   1 Problematic Hydrophytic Vegetation (Hydrophytic Vegetation Present?   1 Problematic Hydrophytic Vegetation Problematic Hydrophytic Hydrophytic Hydrophytic Hydrophytic Hydrophytic Hydrop	10					
Indicators of hydric size: 51   10   No   FAC   20   Yes   20   Yes		0	= Total Cov	ver		orting
Schoenopleclus tabernaemontani  Schoenopleclus tabernaemontani  Echinochloa crus-galli  Echinochloa crus-galli  Echinochloa crus-galli  Echinochloa crus-galli  Echinochloa crus-galli  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30° r )  1	Herb Stratum (Plot size: 5' r )					
3. Echinochloa crus-galli 20 Yes FAC   4.   5.   6.   7.   8.   9.   10.   11.   12.   80   10.   11.   12.   12.   80   14.   15.   16.   16.   17.   18.   19.   19.   10.   11.   12.   19.   10.   11.   12.   10.   11.   12.   13.   14.   15.   16.   17.   18.   19.		10	No	FAC	Problematic Trydrophytic Vegetation (Explain	')
be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30° r )  Moody Vine Stratum (Plot size: 30° r )  Tree – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present?  Yes No		30	Yes	OBL	1	
4.	3. Echinochloa crus-galli	20	Yes	FAC		ust
5.	4					
6					Definitions of Four Vegetation Strata:	
7.       height.         8.       Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.         10.       Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         12.       Woody Vine Stratum (Plot size: 30° r )         1.       Woody vine – All woody vines greater than 3.28 ft in height.         4.       Hydrophytic Vegetation Present? Yes No         0 = Total Cover						
8						ss of
9					neight.	
10						less
11					than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
11					<b>Herb</b> – All herbaceous (non-woody) plants, regard	dless
Woody Vine Stratum       (Plot size: 30' r )       — Total Cover       Woody vine – All woody vines greater than 3.28 ft in height.         1.       — Hydrophytic         5.       — Hydrophytic       Vegetation Present?       Yes ✓ No	11	<del></del>				
Woody Vine Stratum (Plot size: 30' r       1.	12				Woody vine All woody vines greater than 3.28 f	ftin
1	W. 1. V. O. 1. (D. 1. 30'r	60	= Total Cov	ver	, ,	L III
2						
3						
4	2					
5	3					
5	4				Hydrophytic	
6 Present? Yes V No	5				Vegetation /	
= 10tal Cover	6					
Remarks: (Include photo numbers here or on a separate sheet.)		0	= Total Cov	ver		
·	Remarks: (Include photo numbers here or on a separate				<u> </u>	
				•		

Sampling Point: KLF-SP34

SOIL

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	7.5 YR 4/1	90	7.5 YR 5/6	10	С	PL	SiC	
3-5	10 YR 2/1	100					MuckC	20% Clay 80% Muck
5+								Rock refusal
				_	-	-		-,
			-					
			-					
	-							
					-			
		-		-	-			
1						<del></del>	21 11 1	
Hydric Soil I		oletion, RIV	=Reduced Matrix, M	S=Maske	d Sand G	rains.		PL=Pore Lining, M=Matrix.  cators for Problematic Hydric Soils <sup>3</sup> :
-			Dork Surface	o (C7)				•
Histosol	ipedon (A2)		Dark Surface Polyvalue Be		ace (S8) <b>(</b> 1	MI RA 147		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
Black His			Tolyvalde Bi				140)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gley	•	, .	· · · , · · · · ,		Piedmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Ma		, ,			(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark	,				Very Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)	I DD N	Redox Depr			/I DD N		
	lucky Mineral (S1) <b>(</b> l <b>. 147, 148)</b>	LKK N,	Iron-Mangar MLRA 13		ses (F12)	(LKK N,		
	leyed Matrix (S4)		Umbric Surfa		(MLRA 1	36, 122)	<sup>3</sup> lr	ndicators of hydrophytic vegetation and
	edox (S5)		Piedmont Fl					wetland hydrology must be present,
	Matrix (S6)		Red Parent I					unless disturbed or problematic.
	ayer (if observed)	:						
Type: Roo	:k							_
Depth (inc	ches): <u>5"</u>						Hydric Sc	oil Present? Yes <u>√</u> No
Remarks:								
Soils dist	curbed from s	trip min	ing/cattle, me	ets ind	licator	F3		

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: Turnkey 138kV Transmission Line City/C	County: Harrison County Sampling Date: 1/4/2018
Applicant/Owner: Jingoli	State: OH Sampling Point: KLF-SP35
Investigator(s): Robert Maggiore Section	
	ief (concave, convex, none): concave Slope (%): 0
Landform (hillslope, terrace, etc.): Summit Local rel  Subregion (LRR or MLRA): LRR N Lat: 40.244553	Long: -81.029797 Datum: NAD 83
Soil Map Unit Name: Morristown channery silty clay loam, 0 to 8 percent slope	es, stony NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation ✓ , Soil ✓ , or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes   Hydric Soil Present? Yes   Wetland Hydrology Present? Yes   No   No   No   Remarks:	Is the Sampled Area within a Wetland?  Yes No
Sample area serves as a representative for KLF-W mining/cattle. Located in a pastured depression.	/ETLAND18, site is disturbed from strip
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)     True Aquatic Plants (       High Water Table (A2)     Hydrogen Sulfide Od	
Saturation (A3) Oxidized Rhizosphen	
Water Marks (B1) Presence of Reduced	
Sediment Deposits (B2) Recent Iron Reductio	
Drift Deposits (B3) Thin Muck Surface (C	C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Rer	marks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes _ ✓ No Depth (inches): 2"  Water Table Present? Yes _ No _ ✓ Depth (inches):	
Saturation Present?  Yes No _ ✓ Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Meets indicators A1, B8, and D5	
, ,	

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: KLF-SP35

	Absolute	Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30' r )		Species? Status	Number of Dominant Species
1.			That Are OBL, FACW, or FAC: 1 (A)
			(**)
2.			Total Number of Dominant
3			Species Across All Strata: 1 (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: 100 (A/B)
6.			(100)
			Prevalence Index worksheet:
7.			Total % Cover of: Multiply by:
8			OBL species x 1 =
15'e	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r )			FACW species x 2 =
1			FAC species x 3 =
2			FACU species x 4 =
3.			UPL species x 5 =
4			Column Totals: (A) (B)
5			Prevalence Index = B/A =
6			
7			Hydrophytic Vegetation Indicators:
8.			1 - Rapid Test for Hydrophytic Vegetation
			✓ 2 - Dominance Test is >50%
9			3 - Prevalence Index is ≤3.0 <sup>1</sup>
10			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
<b>5</b> 1 -	0	= Total Cover	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' r )			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Echinochloa crus-galli	30	Yes FAC	1 Tobicinatic Trydrophlytic Vegetation (Explain)
2			
3.			¹Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
4			Definitions of Four Vegetation Strata:
5			Total Manda de alanta acabadia acida a Oir (7.0 am) an
6		·	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7			height.
8.			g
			Sapling/Shrub – Woody plants, excluding vines, less
9			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10			Herb – All herbaceous (non-woody) plants, regardless
11			of size, and woody plants less than 3.28 ft tall.
12.			
	30	= Total Cover	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' r )		Total Gover	height.
1			
1			
2			
2. 3.			
2			Hydrophytic
2			Vegetation
2			

Sampling Point: KLF-SP35

SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	n the absence o	f indicators.	)	
Depth	Matrix	0,		x Feature		. 2	<b>-</b> .			
(inches)	Color (moist)		Color (moist)	%	Type'	Loc <sup>2</sup>	Texture		Remarks	
0-4	7.5 YR 4/2	100	·				SiL			
4-12	7.5 YR 4/2	70	7.5 YR 3/1	20	D	М	SiCL			
			7.5 YR 4/4	10	С	PL/M				
				-						_
					-					
										_
			· -				·			
		_		-		· ——				
					<del>-</del>					
					<u> </u>					
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	oletion, RN	M=Reduced Matrix, MS	S=Maske	d Sand G	ains.	<sup>2</sup> Location: PL=	Pore Lining, I	M=Matrix.	
Hydric Soil	Indicators:							ors for Probl		lric Soils³:
Histosol	(A1)		Dark Surface	e (S7)			2 c	m Muck (A10	) (MLRA 14	7)
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfa	ace (S8) <b>(</b> I	MLRA 147	, <b>148)</b> Coa	ast Prairie Re	edox (A16)	
	stic (A3)		Thin Dark Sι			147, 148)	•	(MLRA 147, 1	•	
	n Sulfide (A4)		Loamy Gleye		(F2)			edmont Flood		<del>-</del> 19)
	d Layers (A5)		✓ Depleted Ma		==\		•	(MLRA 136, 1	•	(TE40)
	ick (A10) <b>(LRR N)</b>	oo (A11)	Redox Dark	•				ery Shallow Da her (Explain in		(TF12)
	d Below Dark Surfac ark Surface (A12)	æ (ATT)	Depleted Dare				Ou	ilei (⊏xpiaiii ii	ii Reiliaiks)	
	lucky Mineral (S1) <b>(</b>	LRR N.	Iron-Mangan			(LRR N.				
	A 147, 148)		MLRA 13		) (i 12)	(=::::,				
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 1	36, 122)	<sup>3</sup> Indic	ators of hydro	ophytic vege	tation and
	Redox (S5)		Piedmont Flo		-			tland hydrolog		
Stripped	Matrix (S6)		Red Parent N	Material (F	-21) <b>(MLF</b>	RA 127, 14	7) unl	ess disturbed	or problema	atic.
Restrictive I	Layer (if observed)	):								
Type:										
Depth (in	ches):						Hydric Soil P	resent? Y	es <u>√</u>	No
Remarks:							I			
Soils dis	turbed from s	trip mir	ning/cattle activ	vity, m	eets in	dicator	F3			

## **APPENDIX C**

## **Ohio Rapid Assessment Method Forms**

selective cutting woody debris removal

toxic pollutants

farming

nutrient enrichment

last revised 1 February 2001 jjm

Site:	Jinyo	l: Ra	ter(s): 🎉 🖊	n/JMV	Date: 10/09/17
	subtotal first				
6	13	Metric 5. Special Wetl	ands.	KLF- Wetland	) <b>)</b>
max 10 pts	s. subtotal	Check all that apply and score as indicate	d.	•	
		Bog (10)			
		Fen (10)		•	
		Old growth forest (10)  Mature forested wetland (5)		• •	•
		Lake Erie coastal/tributary wetla	nd-suprestricted by	udrology (10)	
		Lake Erie coastal/tributary wetla	nd-restricted hydr	ology (5)	
		Lake Plain Sand Prairies (Oak C	penings) (10)	· · · · · · · · · · · · · · · · · · ·	
		Relict Wet Prairies (10)	•	• • •	•
		Known occurrence state/federal	threatened or end	langered species (10)	
		Significant migratory songbird/w	ater fowl habitation	r usage (10)	
	<del>                                     </del>	Category 1 Wetland. See Quest			·
a	15	Metric 6. Plant commu	inities, int	terspersion, microto	opography.
max 20 pts.	subtotal	Co. Madamatria			
		6a. Wetland Vegetation Communities. Score all present using 0 to 3 scale.		Community Cover Scale	
		Aquatic bed	0	Absent or comprises <0.1ha (0.2	
		Emergent :	· · · · · ·	Present and either comprises sm vegetation and is of moderate	
		Shrub	•	significant part but is of low qua	
<u> </u>		Forest	. 2	Present and either comprises sig	
	*** **	Sear Sea Mudflats		vegetation and is of moderate of	iliality or comprises a small
** ***********	4	Open water		part and is of high quality	dames of compliace a small
	. 1.	Other	3	Present and comprises significant	t part, or more, of wetland's
	• ' • • • •	6b. horizontal (plan view) interspersion.	•	vegetation and is of high quality	
		Select only one.			
		High (5)	Narrative D	escription of Vegetation Quality	•
		Moderately high(4)	low	Low spp diversity and/or predomi	nance of nonnative or
	•	Moderate (3)	<del> </del>	disturbance tolerant native spec	
		Moderately low (2) Low (1)	mod .	Native spp are dominant compon	ent of the vegetation,
·		χ None (0)		although nonnative and/or distu	rbance tolerant native spp
		6c. Coverage of invasive plants. Refer		can also be present, and specie	es diversity moderate to
		to Table 1 ORAM long form for list. Add		moderately high, but generally threatened or endangered spp	wo presence of rare
		or deduct points for coverage	high	A predominance of native species	with poppative cop
		Extensive >75% cover (-5)		and/or disturbance tolerant nation	re snn absent or virtually
		Moderate 25-75% cover (-3)		absent, and high spp diversity a	nd often, but not always
		Sparse 5-25% cover (-1)		the presence of rare, threatened	l, or endangered spp
		Nearly absent <5% cover (0)			
		X Absent (1)	Mudflat and	Open Water Class Quality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 ac	
		Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88	acres)
		Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more	
	•	<ul><li>◇ Standing dead &gt;25cm (10in) dbh</li><li>◇ Amphibian breeding pools</li></ul>	Minratana	manhu Coyou St-	
		E C 12 surprisolari precoling pools	Microtopogi	aphy Cover Scale Absent	<u>.</u>
				Present very small amounts or if n	OPO COMPACT
		•		of marginal quality	note common
		, ·	2	Present in moderate amounts, but	not of highest
			_	quality or in small amounts of his	thest quality
		•	3	Present in moderate or greater an	
i				and of highest quality	

Site:	Tinso	Rater(s): RSM/SMV	Date: 10/09/17
	1	Metric 1. Wetland Area (size). KLF Wetland Oo	, , , , , , , , , , , , , , , , , , ,
0	0	Wettie I. Wettand Area (Size):	. •
max 6 pts.	subtotal	Select one size class and assign score.    >50 acres (>20.2ha) (6 pts)   25 to <50 acres (10.1 to <20.2ha) (5 pts)   10 to <25 acres (4 to <10.1ha) (4 pts)   3 to <10 acres (1.2 to <4ha) (3 pts)   0.3 to <3 acres (0.12 to <1.2ha) (2pts)	·
		0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)	•
3	3	Metric 2. Upland buffers and surrounding land use.	
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check.    WiDE. Buffers average 50m (164ft) or more around wetland perimeter (7)	· .
	a	Metric 3. Hydrology.	
max 30 pts.	subtotal	Precipitation (1) Seasonal/Intermittent surface water (3) Perrennial surface water (lake or stream) (5)  3c. Maximum water depth. Select only one and assign score.  - >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2)  X <0.4m (<15.7in) (1)  Part of wetland/it Part of vetland/it	ain (1)  I/lake and other human use (1)  I/lake and other
		3e. Modifications to natural hydrologic regime. Score one or double check and average.  None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)	11.
. 3	12	Metric 4. Habitat Alteration and Development.	
max 20 pts.	subtotal	4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.	
		Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double check and average.	
j	12	None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Recent or no recovery (1)  Check all disturbances observed mowing sprazing clearcutting selective cutting woody debris removal toxic pollutants  Shrub/sapling re herbaceous/aqu sedimentation dredging farming nutrient enrichn	uatic bed removal
su last revised	ibtoial this pa 4 Februar		· ·

Site:	21/2X	Rate	er(s): 人っ	M/JMV   Date: 10/09/17
	r	¬ ` ` `		
,	. 1 15	.	·	
r <u>`</u>	subtotal first p	<del>'</del>		
	12	Metric 5. Special Wetla	ındş.	
	<u> </u>			KLF-Wetlod 02
max 10 pts.	subtotal	Check all that apply and score as indicated.		· io by a data and a d
		Bog (10) Fen (10)		
		Old growth forest (10)		•
	•	Mature forested wetland (5)		
		Lake Erie coastal/tributary wetland	i-unrestricted hy	drology (10)
		Lake Erie coastal/tributary wetland	d-restricted hydro	plogy (5)
		Lake Plain Sand Prairies (Oak Op	enings) (10)	
		Relict Wet Prairies (10)		
		Known occurrence state/federal the Significant migratory songbird/wat	reatened or end	angered species (10)
		Category 1 Wetland. See Question		
$\mathcal{L}$	14	Metric o. Flant Commu	mues, m	erspersion, microtopography.
max 20 pts.	subtotal	」 6a. Wetland Vegetation Communities.	Valatat	<u></u>
		Score all present using 0 to 3 scale.	vegetation 0	Community Cover Scale Absent or comprises < 0.1ha (0.2471 acres) contiguous area
·- ·		Aquatic bed	1	Present and either comprises small part of wetland's
		Emergent		vegetation and is of moderate quality, or comprises a
<del></del>		Shrub : '		significant part but is of low quality
÷ :		Forest : : : :	2	Present and either comprises significant part of wetland's
	.,,	Mudflats		vegetation and is of moderate quality or comprises a small
···	- 7	Open water Other		part and is of high quality
		6b: horizontal (plan view) Interspersion.	. 3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality
		Select only one.	··· <u> </u>	Vegetation and is or right quality
		High (5)	Narrative D	escription of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
		Moderate (3)	<del></del>	disturbance tolerant native species
		Moderately low (2) Low (1)	mod .	Native spp are dominant component of the vegetation,
•		X None (0)		although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but generally w/o presence of rare
		to Table 1 ORAM long form for list. Add		threatened or endangered spp
		or deduct points for coverage	high	A predominance of native species, with nonnative spp
		Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)		absent, and high spp diversity and often, but not always,
•		Nearly absent <5% cover (0)		the presence of rare, threatened, or endangered spp
		Absent (1)	Mudflat and	Open Water Class Quality
		6d. Microtopography.	,O,	Absent <0.1ha (0.247 acres)
•		Score all present using 0 to 3 scale.	.1	Low 0.1 to <1ha (0.247 to 2.47 acres)
		Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		O Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more
	•	Standing dead >25cm (10in) dbh  O Amphibian breeding pools	Microtono-	raphy Cover Scale
		1 O Is an burgion propound bons	wicrotopogi	Absent
			1	Present very small amounts or if more common
			-	of marginal quality
		•	2	Present in moderate amounts, but not of highest
			<del> </del>	quality or in small amounts of highest quality
<del></del> 1		•	3	Present in moderate or greater amounts
. 11				and of highest quality

Site:	Jingo	<u> </u>		Rater(	s): LOM/SM	V	Date:	10/01/17
2	2	Metric 1	. Wetland A	rea (s	ize).	KLF 1	Jeffard 03	
max 6 pls.	subtotal	>50 25 to 10 to 3 to 4 0.3 t 0.1 t	e class and assign score acres (>20.2ha) (6 pts) o <50 acres (10.1 to <20 o <25 acres (4 to <10.1tr <10 acres (1.2 to <4ha) o <3 acres (0.12 to <1.2 o <0.3 acres (0.04 to <0 acres (0.04ha) (0 pts)	),2ha) (5 p (a) (4 pts) (3 pts) (ha) (2pts) (,12ha) (1	) pt)		<u> </u>	
3.	5	Metric 2	. Upland but	ffers	and surroun	ding	land use.	
max 14 pts.	subtotal	WID  MEL  NAF  VER  2b. Intensity of LOW	average buffer width. S E. Buffers average 50n DIUM. Buffers average 2 IROW. Buffers average Y NARROW. Buffers a f surrounding land use. Y LOW. 2nd growth or J. Old field (>10 years), DERATELY HIGH. Res H. Urban, industrial, op	n (164ff) o 25m to <5 10m to < verage <1 Select o older fore shrub lar idential, fe	r more around wetland 0m (82 to <164ft) arou- <25m (32ft to <82ft) around we ne or double check an st, prairie, savannah, ' id, young second grow- sneed pasture, park, o	d perimete und wetlar ound wetl dand peri nd average wildlife ar vth forest. onservatio	er (7) nd perimeter (4) and perimeter (1) meter (0) e. ea, etc. (7) (5) on tillage, new fallow field. (3	3)
	10		. Hydrology	•	-,			
max 30 pts.		High Othe Seat Pere 3c. Maximum	f Water. Score all that a pH groundwater (5) or groundwater (3) ipitation (1) sonal/intermittent surface water (lak water depth. Select onl (27.6in) (3) o 0.7m (15.7 to 27.6in) m (<15.7in) (1) ons to natural hydrologic	e water (3 e or strea ly one and	3) m) (5) I assign score.	3d. Durat	ectivity. Score all that apply 100 year floodplain (1) Between stream/lake and Part of wetland/upland (e.g. Part of riparian or upland on inundation/saturation. Semi- to permanently inun Regularly inundated/satura Seasonally inundated (2) Seasonally saturated in up average.	other human use (1) p. forest), complex (1) corridor (1) Score one or dbl check dated/saturated (4) ated (3)
		None Reco	e or none apparent (12) overed (7) overing (3) ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬	Check a	all disturbances obser tch		point source (nonstormwat filling/grading road bed/RR track dredging other	ter) .
~	13	Metric 4	. Habitat Alt			elopn	ient.	· .
max 20 pts.	subtotal	Mon. Rec. Rec. X Rec. Habitat de Exce Very Goo Mod Fair	to fair (2)				· · · · · · · · · · · · · · · · · · ·	
		4c. Habitat alt	eration. Score one or d			ned	·	
sı last revised	ubtotal this pa	Reco	e or none apparent (9) overed (6) overing (3) ant or no recovery (1)	y gr	all disturbances obser lowing razing earcutting elective cutting loody debris removal exic pollutants	ved	shrub/sapling removal herbaceous/aquatic bed r sedimentation dredging farming nutrient enrichment	emoval

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Site:	Jing	rol:			Rater	(s): RJ1	n/JMV.	Date: 10/01/17
	. 13			· · · ·			· · · · · ·	,
		╛						E. Mary has
	sublotal first	<del></del> -				_	. <i>K</i> .	F- Wethlos
0	13	M	etric 5.	Special W	etlan	dş.	•	
max 10 pts.	subtotal	Che	ck all that ap	oly and score as indic	cated.			
			Bog (1				,	
			Fen (10				•	
				wth forest (10)			• •	•
				forested wetland (5) rie coastal/tributary w		arcetriated by	drology (40)	
			Lake E	rie coastal/tributary w	vetland-re	stricted hydro	arology (10) Norv (5)	•
			Lake Pl	ain Sand Prairies (O	ak Openi	ngs) (10)		
			Relict V	Vet Prairies (10)		•		
			Known	occurrence state/fed	eral threa	itened or end	angered species (10)	•
			Signific	ant migratory songbir	rd/water f	owl habitat or	usage (10)	
	T -	] = = <sup> </sup>		y 1 Wetland. See Q				
1	14	IVI	etric 6.	Plant com	muni	ties, int	erspersion, m	icrotopography.
max 20 pts.	subtotal	<b>-</b> 6a. ¹	Wetland Vege	tation Communities.		Vegetation	Community Cover Scale	
·			e all present i	using 0 to 3 scale.		0		0.1ha (0.2471 acres) contiguous area
			Aquatic			. 1		prises small part of wetland's
-			: / Emerge	nt . · · ·				noderate quality, or comprises a
<del></del>			Shrub				significant part but is	
÷			Forest Mudflats		*	2		prises significant part of wetland's
		1	1 0 Mudflats Open wa		٠			noderate quality or comprises a small
		J	Other_	1.CI		3	part and is of high qua	
		6b. h		n view) Interspersion	L		vegetation and is of hi	significant part, or more, of wetland's
	- , .		t only one.	,,	F.		rogotation and to or it	gri quanty
			High (5)			Narrative D	escription of Vegetation	Quality
		L		ely high(4)		low		r predominance of nonnative or
	-	Ļ	Moderat			<u> </u>	disturbance tolerant n	
		-		ely low (2)		mod		t component of the vegetation,
•		·  -	Low (1)			·		d/or disturbance tolerant native spp
		6c C	None (0)	vasive plants. Refer				nd species diversity moderate to
				vasive plants. Refer ong form for list. Add		•		enerally w/o presence of rare
			fuct points for			high		ered spp re species, with nonnative spp
		Γ		>75% cover (-5)		អាម៉ារ		erant native spp absent or virtually
				25-75% cover (-3)				diversity and often, but not always,
				-25% cover (-1)				hreatened, or endangered spp
			Nearly at	sent <5% cover (0)			<del></del>	· · · · · · · · · · · · · · · · · · ·
		L	_(Absent (1	•		Mudflat and	Open Water Class Quali	ty
			icrotopograpl			.0.	Absent <0.1ha (0.247 a	
•		Score		ing 0 to 3 scale.		1	Low 0.1 to <1ha (0.247 t	o 2.47 acres)
		⊢		hummucks/tussuck		2	Moderate 1 to <4ha (2.4	
		-		oody debris >15cm ( dead >25cm (10in) o		3	High 4ha (9.88 acres) or	more
	•	$\vdash$		oead >25cm (10in) d n breeding pools		Microtono	aphy Cover Scale	
			O I Minhinina	in preeding books			Absent	· · · · · · · · · · · · · · · · · · ·
				*•		<u>0</u> 1	Present very small amou	ints or if more common
					•	•	of marginal quality	ure of it those common
					•	2	Present in moderate am	ounts, but not of highest
							quality or in small amo	unts of highest quality
<del></del>					•	3	Present in moderate or g	
							and of highest quality	

Site: 5mx	Rater(s): DIM SMV	Date: 18/09//7
	Metric 1. Wetland Area (size).	
max 6 pts. subtotal	Select one size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2ha) (5 pts)  10 to <25 acres (4 to <10.1ha) (4 pts)  3 to <10 acres (1.2 to <4ha) (3 pts)  0.3 to <3 acres (0.12 to <1.2ha) (2pts)  0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)  <0.1 acres (0.04ha) (0 pts)	
2 3	Metric 2. Upland buffers and surrounding land use.	
max 14 pts. subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check.  WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)  MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)  NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)  VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)  Intensity of surrounding land use. Select one or double check and average.  VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  LOW. Old field (>10 years), shrub land, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow the first part of	ow field. (3) > 2
5 8	Metric 3. Hydrology.	
max 30 pts. subtotal	X: Precipitation (1). Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5)  3c. Maximum water depth. Select only one and assign score. >0.7 (27.6in) (3)  0.4 to 0.7 m (15.7 to 27.6in) (2)  Part of wetland/up Part of vetland/up Part of vetland/up Part of vetland/up Part of wetland/up Part of wetland/up Part of vetland/up P	iin (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one or dbl check ently inundated/saturated (4) ted/saturated (3)
	None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1) Recent or no recovery (1) Recovering tille Recovering tilling/grading Recovering tille Recovering tille Recovering tilling/grading Recovering tille Recovering tille Recovering tilling/grading Recovering tille Recovering tille Recovering tille Recovering tille Recovering tilling/grading Recovering tille Recovering tille Recovering tille Recovering tilling Recovering tilling Recovering tille Recovering tilling Recovering tille Recovering tilling Recovering	<b>  </b> -
3 11	Metric 4. Habitat Alteration and Development.	,.
max 20 pts. subtotal	4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7)  Very good (6)  Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double check and average.	
<sub>F</sub>	None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  None or none apparent (9) Recovering (3) Recent or no recovery (1)  Check all disturbances observed mowing grazing grazing clearcutting clearcutting selective cutting dredging	moval atic bed removal
subtotal this pa	woody debris removal A farming toxic pollutants nutrient enrichm	ent
last revised 1 Februa	ry 2001 jjm	1

Site:	5/20	٠ .	. R	ater(s):	RJM	/JMV	Date: 10/01/17
	subtotal first	Dage			•		CLF-WEATER 04
0	11	<del></del> i	. Special We	tlands.		•	ook illed
max 10 pts	s. subtotal		pply and score as indica	ted.			
		Bog (	10)		•	•	
		Matur	rowth forest (10) re forested wetland (5)				
		Lake	Erie coastal/tributary wel Erie coastal/tributary wel	lland-restricted	l hydrology	ogy (10) / (5)	
		Relict	Plain Sand Prairies (Oak Wet Prairies (10)		•		
		Signifi	n occurrence state/feder cant migratory songbird/ ory 1 Wetland. See Que	water fowl hat	oitat or usa	ge (10)	
7	13	1		•			microtopography.
max 20 pts.	subtotal	] 6a. Wetland Ve	getation Communities.			nmunity Cover \$	
			t using 0 to 3 scale.				es <0.1ha (0.2471 acres) contiguous area
		Aquati					comprises small part of wetland's
-	<i>:</i> .	: /: Emerg	ent	•		vegetation and is	of moderate quality, or comprises a
		Shrub				significant part b	ut is of low quality
÷ '		Forest		,	2 P	resent and either	comprises significant part of wetland's
	•••	" 📑 Mudfla	ts · ·			vegetation and is	of moderate quality or comprises a small
		Open				part and is of hig	
	. 1	··· Other					ises significant part, or more, of wetland's
		6b: horizontal (p	lan view) Interspersion.			vegetation and is	
	. , ,	Select only one.		<del></del>			
		High (5	i)	Narrat	live Descr	iption of Vegeta	tion Quality
		Modera	ately high(4)		ow Lo	w spp diversity a	nd/or predominance of nonnative or
		Modera				disturbance toler	ant native species
		Modera	ately low (2)	m			inant component of the vegetation,
		Low (1)	• • •				/e and/or disturbance tolerant native spp
		None (					ent, and species diversity moderate to
			invasive plants. Refer	٠			but generally w/o presence of rare
		to Table 1 ORAM	long form for list. Add				langered spp
		or deduct points f		. <del>.</del>			native species, with nonnative spp
			ve >75% cover (-5)	•••	ر ا	end/or disturbanc	e tolerant native spp absent or virtually
			te 25-75% cover (-3)		,	ancoon alambanc sheept and high	spp diversity and often, but not always,
			5-25% cover (-1)				are, threatened, or endangered spp
•			absent <5% cover (0)			are presence of the	are, unicatened, or endangered spp
		χ Absent		Mudel	of and And	on Maton Class.	Drawille.
	(	6d. Microtopogra		inauna i(		en Water Class	
			using 0 to 3 scale.			sent <0.1ha (0.2	
			ed hummucks/tussucks				247 to 2.47 acres)
			woody debris >15cm (6i				a (2.47 to 9.88 acres)
			g dead >25cm (10in) db		i ili	gh 4ha (9.88 acre	s) or more
			g dead >25cm (10in) db ian breeding pools		onove	u Cover 5!-	• •
		· F Alvanbum	en preemily pools			y Cover Scale	·
				·		sent .	
		•	•	. 1			amounts or if more common
	•					of marginal quality	
			•	2			amounts, but not of highest
							amounts of highest quality
				3			or greater amounts
1					a	ind of highest qui	ality

subtotal this page last revised 1 February 2001 jjm

Site:	JA	بهاز	Rater(s):	R5M/51	m/	Date: 10/09/17
	. 9				÷.	, , , ,
0	subtotal first p	Metric 5. Specia	l Wetlands.	. kı	.F. Wetled as	
max 10 pts.	subtotal	Check all that apply and score	as indicated.		•	
		Bog (10) Fen (10)				•
		Old growth forest (10			•	
		Mature forested wetla			, ,	
		Lake Erie coastal/trib	utary wetland-unrestricte utary wetland-restricte	ciea nyarology ( d hydrology (5)	. (10)	
		Lake Plain Sand Prai	ries (Oak Openings) (1	10)		
		Relict Wet Prairies (1				
		Known occurrence st	ate/federal threatened songbird/water fowl ha	or endangered	species (10)	•
	<u> </u>	Category 1 Wetland.	See Question 1 Quali	tative Rating (-1	0)	•
ĵ		Metric 6. Plant c				onography
2	]		Omminal Incides	, meersp	erajon, microt	opograpny.
max 20 pts.	subtotal	6a. Wetland Vegetation Commi	ınities. Vege	tation Commu	nity Cover Scale	
** - *******		Score all present using 0 to 3 so	ale.			2471 acres) contiguous area
•	• • • • •	Aquatic bed		1 Prese	nt and either comprises sr	nall part of wetland's
•		Emergent Shrub	•		etation and is of moderate	
<del></del>	Ţ	Forest	·		ificant part but is of low qu nt and either comprises sig	
		Mudflats		1 - /		quality or comprises a small
•		Open water	<u> </u>	part	and is of high quality	
		Other				nt part, or more, of wetland's
		6b: horizontal (plan.view) Inters	persion.	vege	tation and is of high qualit	y ·
		High (5)	Narra	ntive Descriptio	on of Vegetation Quality	•
		Moderately high(4)			pp diversity and/or predom	inance of nonnative or
		Moderate (3)	<del></del>		rbance tolerant native spe	
		Moderately low (2) Low (1)	n		spp are dominant compor	
		) None (0)		can	also be present, and speci	urbance tolerant native spp
	(	Sc. Coverage of invasive plants.	Refer	mode	erately high, but generally	w/o presence of rare
		o Table 1 ORAM long form for lis		threa	itened or endangered spp	
	(	or deduct points for coverage Extensive >75% cover	/ EV	igh A pred	ominance of native specie	s, with nonnative spp
		Moderate 25-75% cover		ang/o	or disturbance tolerant hat ont, and high enn diversity	ive spp absent or virtually and often, but not always,
, -		Sparse 5-25% cover (-			resence of rare, threatene	
		Nearly absent <5% cov	, ,		. ,	<u> </u>
		X Absent (1)			ater Class Quality	<u> </u>
		d. Microtopography. Score all present using 0 to 3 sca			<0.1ha (0.247 acres)	
	_	Vegetated hummucks/t			1 to <1ha (0.247 to 2.47 a ate 1 to <4ha (2.47 to 9.8)	
		O Coarse woody debris >	15cm (6in)		ha (9.88 acres) or more	o acres)
		Standing dead >25cm (	* *		•	<del></del>
		O Amphibian breeding po		topography Co		·
				0 Absent 1 Presen	t very small amounts or if	Mora commen
		•	•		it very smaji amounts or ir arginal quality	more common
		•		2 Presen	t in moderate amounts, bu	It not of highest
				qualit	y or in small amounts of h	ighest quality
					t in moderate or greater a	nounts
1,			<del></del>	and o	of highest quality	······································

Site: Thypli Rate	r(s):	Tan/Janv	Date: 10/09/17			
17-5 subtotal first page		KLF Wetlah 06				
Metric 5. Special Wetlan	nds.					
max 10 pts. subtotal Check all that apply and score as indicated.		•	-			
Bog (10) Fen (10)						
Old growth forest (10)		<u>.</u> 				
Mature forested wetland (5)		•				
Lake Erie coastal/tributary wetland			•			
	Lake Erie coastal/tributary wetland-restricted hydrology (5) Lake Plain Sand Prairies (Oak Openings) (10)					
Relict Wet Prairies (10)			•			
Known occurrence state/federal thre						
Significant migratory songbird/wate Category 1 Wetland. See Question			•			
BA-4-5- O DI- 4	•	_ , ,				
ຽ   223   Metric 6. Plant commun	nues, int	erspersion, microto	opograpny.			
mex 20 pts. subtotal 6a. Wetland Vegetation Communities.	Varietation	Community Cover Scale				
Score all present using 0 to 3 scale.	vegetation 0	Absent or comprises <0.1ha (0.2-	471 acres) continuous area			
Aquatic bed	. 1	Present and either comprises sm				
<u> </u>		vegetation and is of moderate of				
Shrub Forest	•	significant part but is of low qua				
Mudflats	2	Present and either comprises sign vegetation and is of moderate of				
/ Open water		part and is of high quality	luality or comprises a small			
Other	3	Present and comprises significan	t part, or more, of wetland's			
6b. horizontal (plan view) Interspersion.	· ·	vegetation and is of high quality				
Select only one.	N=					
High (5) Moderately high(4)	low	escription of Vegetation Quality  Low spp diversity and/or predomi	nance of nonnative or			
Moderate (3)	1511	disturbance tolerant native spec				
Moderately low (2)	mod	Native spp are dominant compon	ent of the vegetation,			
X   Low (1)	•	although nonnative and/or distu				
None (0)  6c. Coverage of invasive plants. Refer		can also be present, and specie				
to Table 1 ORAM long form for list. Add		moderately high, but generally we threatened or endangered spp				
or deduct points for coverage	high	A predominance of native species				
Extensive >75% cover (-5)		and/or disturbance tolerant nativ	ve spp absent or virtually			
Moderate 25-75% cover (-3)		absent, and high spp diversity a				
Sparse 5-25% cover (-1) Nearly absent <5% cover (0)		the presence of rare, threatened	i, or endangered spp			
Absent (1)	Mudflat and	Open Water Class Quality				
6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	<del>;</del>			
Score all present using 0 to 3 scale.	.1	Low 0.1 to <1ha (0.247 to 2.47 ac				
Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88	acres)			
© Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	3	High 4ha (9.88 acres) or more	,			
Amphibian breeding pools	Microtopoa	raphy Cover Scale				
	. 0	Absent				
	· 1	Present very small amounts or if r of marginal quality	•			
. '	2	Present in moderate amounts, but quality or in small amounts of hi				
	3	Present in moderate or greater an				
01.		and of highest quality				

Site:	Janyal	Rater(s): RJM/JMV	Date: /0/09/17
2	12	Metric 1. Wetland Area (size).หมรพอฝน 06	
max 6 pts.	subtotal	! Select one size class and assign score.	
		>50 acres (>20.2ha) (6 pts)	
		25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts)	•
		3 to <10 acres (1.2 to <4ha) (3 pts)	
		0.3 to <3 acres (0.12 to <1.2ha) (2pts)	
		0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts)	
	3	Metric 2. Upland buffers and surrounding land use	•
max 14 pts.	. subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check.	•
•		WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)	
		MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)	1
		NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1 × VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)	•
		2b. Intensity of surrounding land use. Select one or double check and average.	
		VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)	
		LOW. Old field (>10 years), shrub land, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fal	low field. (3)
		★ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)	. ,
8		Metric 3. Hydrology.	
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply.  3b. Connectivity. Score all	I that apply.
		High pH groundwater (5) 100 year floodpl	ain (1)
			/lake and other human use (1)
	•		upland (e.g. forest), complex (1) or upland confidor (1)
•		Perennial surface water (lake or stream) (5) 3d. <u>Duration inundation/sa</u>	turation. Score one or dbl check
٠.		··· <del></del>	nently inundated/saturated (4)
•		>0.7 (27.6in) (3) Regularly inund X 0.4 to 0.7m (15.7 to 27.6in) (2) X Seasonally inund	ated/saturated (3) dated (2)
		<0.4m (<15.7in) (1) Seasonally satu	rated in upper 30cm (12in) (1)
		3e. Modifications to natural hydrologic regime. Score one or double check and average.	
	•	None or none apparent (12) Check all disturbances observed	erotormustor)
		Recovered (7)   ditch   point source (no second filling/grading   filling/grading	instolliwater)
		Recent or no recovery (1) dike road bed/RR tra	ck
		weir dredging	·
-	<u> </u>	stormwater inputother	
6.5	17,5	Metric 4. Habitat Alteration and Development.	
max 20 pts.	subtotal	4a. Substrate disturbance. Score one or double check and average.	
		None or none apparent (4)	
		Recovered (3)  Recovering (2)	
		Recent or no recovery (1)	
		4b. Habitat development. Select only one and assign score.	
		Excellent (7) Very good (6)	
		Good (5)	. •
		Moderately good (4)	•
		Fair (3) Poor to fair (2)	
		Poor (1)	
		4c. Habitat alteration. Score one or double check and average.	
		None or none apparent (9) Check all disturbances observed	
		Recovered (6) mowing shrub/sapling re  Recovering (3) Recovering (3) grazing herbaceous/aqu	emoval uatic bed removal
		Recovering (3)  Recent or no recovery (1)	- Cita bad fattio tal
		selective cutting dredging	
	17.5	woody debris removal    woody debris removal   S farming	nent
SL	ubtoial this pag		ioin.
ast revised		<u> </u>	1

Site:	3/2	Rater(	s): RJM/JMV		Date: 10/09/17		
0	0	Metric 1. Wetland Area (s	ize).	Hard 07			
max 6 pts.	subtotal	Select one size class and assign score.    >50 acres (>20.2ha) (6 pts)   25 to <50 acres (10.1 to <20.2ha) (5 pts)   10 to <25 acres (4 to <10.1ha) (4 pts)   3 to <10 acres (1.2 to <4ha) (3 pts)   0.3 to <3 acres (0.12 to <1.2ha) (2pts)   0.1 to <0.3 acres (0.04 to <0.12ha) (1					
	1	Metric 2. Upland buffers	and surrounding	g land use.			
max 14 pts.	sublotal	2a. Calculate average buffer width. Select only WIDE. Buffers average 50m (164ft) o MEDIUM. Buffers average 25m to <5 NARROW. Buffers average 10m to < VERY NARROW. Buffers average <1  2b. Intensity of surrounding land use. Select of VERY LOW. 2nd growth or older fore LOW. Old field (>10 years), shrub lan MODERATELY HIGH. Residential, fe	r more around wetland perimon (82 to <164ft) around wetle:25m (32ft to <82ft) around women (32ft) around women (32ft) around wetland pereor double check and averast, prairie, savannah, wildlife: d, young second growth forestneed pasture, park, conservanced pasture, park, conservance.	eter (7) land perimeter (4) etland perimeter (1) erimeter (0) age. area, etc. (7) st. (5) ation tillage, new fallo	w field. (3)		
41	سے ا	Metric 3. Hydrology.	, (				
max 30 pts.	subtotel	3a. Sources of Water. Score all that apply.  High pH groundwater (5)  Other groundwater (3)  Precipitation (1)  Seasonal/Intermittent surface water (3)  Perennial surface water (lake or streat water (3)  Maximum water depth. Select only one and >0.7 (27.6in) (3)  0.4 to 0.7m (15.7 to 27.6in) (2)  4.4m (<15.7in) (1)  Modifications to natural hydrologic regime.	n) (5) 3d. Dur assign score.	Part of wetland/up Part of riparian or ration inundation/satu Semi- to permane Regularly inundat Seasonally inundat Seasonally satura	in (1) ake and other human use (1) bland (e.g. forest), complex (1) upland corridor (1) uration. Score one or dbl check ently inundated/saturated (4) ed/saturated (3)		
		None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1) Check a	Il disturbances observed ch	point source (non filling/grading road bed/RR track dredging other	1		
	∢	Metric 4. Habitat Alteration	on and Develop	ment.			
max 20 pts.	subtotal	4a. Substrate disturbance. Score one or double None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only one and a Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2)					
		Poor (1) 4c. Habitat alteration. Score one or double che	ck and average.				
ſ	9	Recovered (6) microscopic (1) Recovering (3) second or no recovery (1) clear the second or no recovery (1) second or no re		shrub/sapling ren herbaceous/aqua sedimentation dredging x farming	tic bed removal .		
	btotal this pa		kic pollutants	inutrient enrichme	ent .		
ast revised 1 February 2001 jjm							

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in

Case No(s). 17-2084-EL-BTX

Summary: Application - Appendix D (Part 5) electronically filed by Mr. Michael J. Settineri on behalf of Harrison Power Transmission, LLC