

Appendix B

Photographic Record



Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

Site Location:

FirstEnergy

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 1.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-1, facing north.



Photo No. 2.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-1, facing east.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

Site Location:

FirstEnergy

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 3.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-1, facing south.



Photo No. 4.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-1, facing west.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

Site Location:

FirstEnergy

Troy Township, Wood County, Ohio

Project No.

429847.0092.0000

Photo No. 5.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-2, facing north.



Photo No. 6.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-2, facing east.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

FirstEnergy

Site Location:

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 7.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-2, facing south.



Photo No. 8.

Photo Date: 3/25/2024

Description:

Photo of Wetland W-JMS-2, facing west.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

Site Location:

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 9.

FirstEnergy

Photo Date: 3/25/2024

Description:

Photo of Stream S-JMS-1 looking upstream, facing west.



Photo No. 10.

Photo Date: 3/25/2024

Description:

Photo of Stream S-JMS-1 looking downstream, facing southeast.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

Site Location:

FirstEnergy

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 11.

Photo Date: 3/25/2024

Description:

Photo of the substrate within Stream S-JMS-1.



Photo No. 12.

Photo Date: 3/25/2024

Description:

Representative photo of the upland field within the northeast extent of the Project Study Area, facing north.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

Site Location:

FirstEnergy

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 13.

Photo Date: 3/25/2024

Description:

Representative photo of the upland field within the northeast extent of the Project Study Area, facing south.



Photo No. 14.

Photo Date: 3/25/2024

Description:

Photo of the existing access road within the center of the Project Study Area, facing east.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

FirstEnergy

Site Location:

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 15.

Photo Date: 3/25/2024

Description:

Photo of the existing access road within the center of the Project Study Area, facing west.



Photo No. 16.

Photo Date: 3/25/2024

Description:

Representative photo of the western extent of the Project Study Area, facing north.





Fostoria Central-Lallendorf Line 345kV Structure Replacement Project

Client Name:

Site Location:

FirstEnergy

Troy Township, Wood County, Ohio

Project No. 429847.0092.0000

Photo No. 17.

Photo Date: 3/25/2024

Description:

Representative photo of the existing access road within the western extent of the Project Study Area, facing east.



Photo No. 18.

Photo Date: 3/25/2024

Description:

Representative photo of the existing access road within the western extent of the Project Study Area, facing west.





Appendix C

Data Forms



USACE Wetland Determination Data Forms – Northcentral and Northeast Region

	North central and North cast Region
	ty: <u>Troy Township, Wood County</u> Sampling Date: <u>2024-3-25</u>
Applicant/Owner: FirstEnergy	State: OH Sampling Point: W-JMS-01_PEM-1
Investigator(s): Jenna Slabe, Emma Given	Section, Township, Range: 14 6N 12E
Landform (hillslope, terrace, etc): Flat Local reli	ief (concave, convex, none): None Slope (%): 0 to 1
Subregion (LRR or MLRA): MLRA 99 of LRR L Lat: 41	.47234585 Long: <u>-83.4450315333</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Hoytville silty clay loam, 0 to 1 percent slopes	NWI Classification: R5UBH
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed	ed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problemati	ic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing samp	
HVaronnytic Vegetation Present? Yes A No	s the Sampled Area
Hydric Soil Present? Yes X No	vithin a Wetland? Yes 🗶 No
Wetland Hydrology Present? Ves X No	f yes, optional Wetland Site ID: W-JMS-01
"	yes, optional wetiand Site ID
Remarks: (Explain alternative procedures here or in a separate report.)	
Covertype is PEM. Based on the presence of all three parameters, this area is a w	etland.
Governy pe to 1 25% Based on the presence of an ance parameters, and area to a w	Camara.
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) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
<u>X</u> Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2) X Oxidized Rhizospheres alor	
Drift Deposits (B3) Presence of Reduced Iron (<i>'</i>
Algal Mat or Crust (B4) Recent Iron Reduction in Til	led Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shahow Aquitaru (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
_ sparsely regulated constants currents (25)	<u>v</u> : (.,
Field Observations:	
Surface Water Present? Yes No _ X Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches): 5	Wetland Hydrology Present? Yes 🗶 No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	ous inspections), if available:
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Remarks:	
The criterion for wetland hydrology is met.	

EGETATION — Use scientific names of plants.				Sampling Point: <u>w-JMS-01_PEM-1</u>
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1.	70 COVE	Species:	Status	Number of Dominant Species
2.			-	That Are OBL, FACW, or FAC: $\underline{1}$ (A)
3.				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5	·			Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6. 7.				That Ale OBL, FACW, of FAC. 10070 (A/B)
·		- Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)		= 10tai	Cover	Total % Cover of: Multiply by:
1				OBL species $10 \times 1 = 10$
2				FACW species 95 x 2 = 190
3				FAC species $0 \times 3 = 0$
4				FACU species 0 x 4 = 0
5.				UPL species 0 x 5 = 0
6				Column Totals: 105 (A) 200 (B)
	0	= Total	Cover	Column Totals. 103 (A) 200 (B)
Herb Stratum (Plot size: 5 ft radius)		Total	00101	Prevalence Index = B/A = 1.9
1. Phalaris arundinacea	95	Yes	FACW	
2. Juncus effusus	10	No	OBL	Hydrophytic Vegetation Indicators:
3				X 1 - Rapid Test for Hydrophytic Vegetation
4				X 2 - Dominance Test is >50%
5. 6.				\mathbf{X} 3 - Prevalence Index is ≤3.0 ¹
o. 7.			·	4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
11.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12	105			The state of the s
Woody Vine Stratum (Plot size: 30 ft radius)		= 10181	Cover	Definitions of Vegetation Strata:
1.				Tree — Woody plants 3 in. (7.6 cm) or more in
2.				diameter
3				at breast height (DBH), regardless of height.
4				Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb — All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
The criterion for hydrophytic vegetation is met.				

Profile Desc	. `	the dep				tor or c	onfirm the al	osence of indicators.)
Depth	Matrix			Feature		. 2	_	
(inches) 0 to 4	Color (moist) 10YR 3/2	100	Color (moist)	%	Type ¹	Loc	Texture Silty Clay Loa	Remarks
4 to 8	10 T R 3/2	95	10YR 4/6	 5		M/PL	Silty Clay Loa	
8 to 20	10YR 4/1	85	10YR 4/6	15	C	M	Clay Loam	<u> </u>
0 10 20	1011(4/1		1011(4/0				Clay Loani	
				-	- ——			
				-				
							-	
				-			-	
¹ Type: C=Co	ncentration, D=Deple	tion, RM=	Reduced Matrix, CS	S=Cover	ed or Co	ated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						In	dicators for Problematic Hydric Soils ³ :
Histosol (A1) pedon (A2)		Polyvalue Be MLRA 149E		rface (S8	3) (LRR	R,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark S	urface (S				5 cm Muck Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4) Layers (A5)		Loamy Muck			LRR K,	L)	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A11)	Depleted Ma				_	Thin Dark Surface (S9) (LRR K, L)
	k Surface (A12)		Redox Dark				<u> </u>	Iron-Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1) eyed Matrix (S4)		Depleted Da Redox Depre		, ,		_	Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)		_ '		` ,		_	Red Parent Material (F21)
	Matrix (S6) ace (S7) (LRR R, ML	RA 149B))				-	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
³ Indicators of	f hydrophytic vegetati	on and we	etland hydrology mu	st be pre	esent, ur	nless dis	sturbed or prol	olematic.
	ayer (if present):							
Type: Depth (inc	hes):							Hydric Soil Present? Yes ✗ No
								<u> </u>
Remarks: The criteri	on for hydric soil is me	t.						
The criteri								

	- 11 TE 18
	Township, Wood County Sampling Date: 2024-3-25
	tate: OH Sampling Point: U-JMS-1
Investigator(s): Jenna Slabe, Emma Given	Section, Township, Range: 14 6N 12E
	e, convex, none): None Slope (%): 0 to 1
· · · · · · · · · · · · · · · · · · ·	B33 Long: <u>-83.4449925333</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Hoytville silty clay loam, 0 to 1 percent slopes	NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes $\underline{\hspace{1em} \hspace{1em} 1em$	
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampling poir	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Is the Samp within a We Watland Hydrology Present? Yes No X	oled Area
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is UPL. Based on the absence of all three parameters, this area is an upland.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Stunted or Stressed Plants (D1)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No ✗
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: The criterion for wetland hydrology is not met.	ions), if available:

/EGETATION — Use scientific names of plants.				Sampling Point: <u>U-JMS-1</u>
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>)		Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3.		. ———		Species Across All Strata: 2 (B)
4 5.	 -			Percent of Dominant Species
		. ———		That Are OBL, FACW, or FAC: 0% (A/B)
7.				
	0	= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)	-		0070.	Total % Cover of: Multiply by:
1.				OBL species $0 x1 = 0$
2				FACW species $0 \times 2 = 0$
3				FAC species 5 x 3 = 15
4				
5				
6				UPL species 20 x 5 = 100
7		· —		Column Totals: 95 (A) 395 (B)
Howh Christian (Diet einer Eft radius	0	= Total	Cover	
Herb Stratum (Plot size: 5 ft radius) 1. Festuca rubra	45	Yes	FACU	Prevalence Index = B/A = 4.2
Daucus carota	20	Yes	UPL	Hydrophytic Vegetation Indicators:
3. Cirsium arvense	15	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
4. Taraxacum officinale	10	No	FACU	2 - Dominance Test is >50%
5. Barbarea vulgaris		No	FAC	
6.				3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10.				
11.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12				20 process, amose distances of processing.
	95	= Total	Cover	Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: 30 ft radius)				Tree — Woody plants 3 in. (7.6 cm) or more in
1 2.				diameter
3.				at breast height (DBH), regardless of height.
4.	 -	. ———		Sapling/shrub — Woody plants less than 3 in. DBH
	0	= Total	Cover	and greater than or equal to 3.28 ft (1 m) tall.
		- 10141	Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate s The criterion for hydrophytic vegetation is not met.	sheet.)			

SOIL								Sampling Point: <u>U-JMS-1</u>
Profile Des	cription: (Describe	to the dep	th needed to docu	ment th	e indica	tor or co	onfirm the	absence of indicators.)
	Matrix			c Feature				,
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 3	10YR 3/2	100	Color (moist)		Туре	LUC	Silt Loan	
3 to 6	10 TR 3/2	90	10YR 4/6	10		M/PL	Clay Loan	
								
6 to 10	10YR 4/2	85	7.5YR 4/6	15	C	<u>M</u>	Clay Loar	<u>n</u>
1- 00								2, 2, 2,
	ncentration, D=Deple	etion, RM=	Reduced Matrix, CS	3=Cover	ed or Co	ated Sai	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I								Indicators for Problematic Hydric Soils ³ :
Histosol (Polyvalue B		rface (S8) (LRR F	₹,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His	pedon (A2)		MLRA 149E Thin Dark S	•	S9) (I RR	R MIR	Δ 149R)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Muck Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Muck					Dark Surface (S7) (LRR K, L)
	Layers (A5)		Loamy Gley					Polyvalue Below Surface (S8) (LRR K, L)
	Below Dark Surface rk Surface (A12)	(A11)	Depleted Ma Redox Dark				-	Thin Dark Surface (S9) (LRR K, L)
	ucky Mineral (S1)		Depleted Da				-	Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depr				-	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	` '						-	Red Parent Material (F21)
	Matrix (S6) face (S7) (LRR R, MI	PΔ 1/0R)					-	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
							-	
³ Indicators o	f hydrophytic vegetat	ion and we	tland hydrology mu	st be pre	esent, un	less dist	urbed or pr	oblematic.
Restrictive I	_ayer (if present):							
Type: Cla	ny							
Depth (inc	thes): 10							Hydric Soil Present? Yes No
Remarks:								
The criter	ion for hydric soil is no	t met.						

	orthochtral and Northcast Region
	oy Township, Wood County Sampling Date: 2024-3-25
Applicant/Owner: FirstEnergy	State: OH Sampling Point: W-JMS-02_PEM-1
Investigator(s): Jenna Slabe, Emma Given	Section, Township, Range: <u>14 6N 12E</u>
	ncave, convex, none): Concave Slope (%): 0 to 1
	619 Long: <u>-83.4448369</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Nappanee loam, 0 to 2 percent slopes	NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes $\underline{\hspace{1.5cm} \hspace{1.5cm} 1.5$	
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 sampling p	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No within a Wetland Hydrology Present? Yes X No No	Sampled Area a Wetland? Yes No optional Wetland Site ID: W-JMS-02
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is PEM. Based on the presence of all three parameters, this area is a wetland.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) Water-Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) X Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) X Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Solution (Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)	Stunted or Stressed Plants (D1)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 6 Water Table Present? Yes X No Depth (inches): 7 Saturation Present? Yes X No Depth (inches): 2 (includes capillary fringe)	Wetland Hydrology Present? Yes X No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	nections) if available:
Remarks: The criterion for wetland hydrology is met.	position by, in available.

EGETATION — Use scientific names of plants.				Sampling Point: w-JMS-02_PEM-1
Tree Stratum (Plot size: _ 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
	0	= Total	Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)				Total % Cover of: Multiply by:
1.				OBL species25 x 1 =25
2.				FACW species 58 x 2 = 116
3 4.				FAC species0 x 3 =0
5.				FACU species17 x 4 =68
6.				UPL species $0 \times 5 = 0$
7.				Column Totals: 100 (A) 209 (B)
	0	= Total	Cover	()
Herb Stratum (Plot size: 5 ft radius)				Prevalence Index = B/A = 2.1
1. Phalaris arundinacea	58	Yes	FACW	
2. Lythrum salicaria	25	Yes	OBL	Hydrophytic Vegetation Indicators:
3. Symphyotrichum pilosum	15	No	FACU	x 1 - Rapid Test for Hydrophytic Vegetation
4. Trifolium repens	2	No	FACU	₹ 2 - Dominance Test is >50%
5				X 3 - Prevalence Index is $\leq 3.0^1$
6.				
7				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8. 9.				· · · · · · · · · · · · · · · · · · ·
				Problematic Hydrophytic Vegetation ¹ (Explain)
10 11.				¹ Indicators of hydric soil and wetland hydrology must
11. 12.				be present, unless disturbed or problematic.
	100	= Total	Cover	Definition of Vanadation Charts
Woody Vine Stratum (Plot size: 30 ft radius)				Definitions of Vegetation Strata:
1				Tree — Woody plants 3 in. (7.6 cm) or more in diameter
2				at breast height (DBH), regardless of height.
3				Sapling/shrub — Woody plants less than 3 in. DBH
4				and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in
				height.
				Hydrophytic Vegetation Present? Yes No No
Demarka: (Include photo numbers here or on a concrete o	hoot \			1
Remarks: (Include photo numbers here or on a separate s The criterion for hydrophytic vegetation is met.	neet.)			
The criterion for hydrophytic vegetation is met.				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features	
Depth (inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks	
0 to 5 10YR 3/2 95 10YR 4/6 5 C M/PL Clay	
5 to 20	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, N	 и=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydroxidal Indicato	
Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, Whistic Epipedon (A2) — MLRA 149B) — 2 cm Muck (A10) (LRR K, L, Coast Prairie Redox (A16) (LRR K, L, Coast Prairie R	
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muck Peat or Peat (S3)	
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8	
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRF	
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F1	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 2	
Sandy Redox (S5) Red Parent Material (F21)	
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (Continuous Continuous Con	ΓF12)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if present):	
Type: Not present Depth (inches): Hydric Soil Present? Yes	K No
Remarks: The criterion for hydric soil is met.	

W_1		WIIIVALION DA			and Northcast Region	
Project/Site: Fostoria Centra			_ City/County: <u>Tr</u>		Wood County Sampling	
Applicant/Owner: FirstEnergy				State: <u>OH</u>		
Investigator(s): <u>Jenna Slabe</u> ,					ction, Township, Range: $14~6 m N$	
Landform (hillslope, terrace, et			Local relief (cor	icave, convex,	none): None	Slope (%): 0 to 1
Subregion (LRR or MLRA): \underline{M}	ILRA 99 of LR	R L	Lat: 41.47345	531667	Long: <u>-83.4449412667</u>	Datum: WGS84
Soil Map Unit Name: Hoytvil	le silty clay loa	m, 0 to 1 percent sl	opes		NWI Classification: Non	ıe
Are climatic / hydrologic condit	tions on the site f	typical for this time o	f year? Yes 🔀	No (If	no, explain in Remarks.)	
Are Vegetation, Soil _	, or Hydro	logy significa	ntly disturbed?	Are "Nori	mal Circumstances" present? Ye	es 🗶 No
Are Vegetation, Soil _	, or Hydro	logy naturally	/ problematic?	(If neede	d, explain any answers in Rema	
		<u> </u>			ons, transects, importar	nt features etc
SOMMAKI OF FINDING	33 — Allacii	Site map snowi	ing sampling p	Joint Iocatio	ons, transects, importar	it icatures, etc.
Hydrophytic Vegetation Prese	ent? Yes	No 🗶		Sampled Area	Van Na V	
Hydric Soil Present?	Yes	₹ No	within	a Wetland?	Yes No _ X	
Wetland Hydrology Present?			If yes o	ntional Wetlan	d Site ID: U-JMS-2	
			11 yes, c	ptional Wellan	u Site ib. <u>6 31416 2</u>	
Remarks: (Explain alternative	e procedures her	e or in a separate re	port.)			
Covertype is UPL. Based or	n the absence of tw	o of three parameters,	this area is an uplar	ıd.		
HYDROLOGY						
Wetland Hydrology Indicate		di abaali all that ann	l. A		Secondary Indicators (minim	
Primary Indicators (minimum	or one is require		• /		 Surface Soil Cracks (B6) Drainage Patterns (B10) 	
Surface Water (A1) High Water Table (A2)		Water-Stained L Aquatic Fauna (, ,		Moss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (E			Dry-Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfid	,		Crayfish Burrows (C8)	(02)
Sediment Deposits (B2)			pheres along Livir	a Poots (C3)	Saturation Visible on Aeri	ial Imagery (C9)
Drift Deposits (B3)		Presence of Rec		g (10010 (00)	Stunted or Stressed Plan	
Algal Mat or Crust (B4)			luction in Tilled So	ls (C6)	Geomorphic Position (D2	• •
Iron Deposits (B5)		Thin Muck Surfa	ice (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aer	ial Imagery (B7)	Other (Explain in	n Remarks)		Microtopographic Relief ((D4)
Sparsely Vegetated Cond	ave Surface (B8)			FAC-Neutral Test (D5)	
Field Observations						
Field Observations:	V00	No. Y Donth	inchee).			
Surface Water Present? Water Table Present?			inches): inches):	-		
Saturation Present?			inches): inches):	Wetland L	Hydrology Present? Yes	No 🗶
(includes capillary fringe)	Yes	No Deptil (inches).	- Welland F	nyurology Fresent: Tes	
` ' ' ' ' ' ' ' '						
Describe Recorded Data (stre	eam gauge, mon	itoring well, aerial pl	notos, previous ins	pections), if av	ailable:	
Remarks:						
The criterion for wetland hy	drology is not me	t.				
Í						

/EGETATION — Use scientific names of plants.				Sampling Point: <u>U-JMS-2</u>
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3.		. ——		Species Across All Strata: 3 (B)
4				Percent of Dominant Species
<u> </u>				That Are OBL, FACW, or FAC: 0% (A/B)
7.				
	0	= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)			00.0.	Total % Cover of: Multiply by:
1. Rosa multiflora	15	Yes	FACU	OBL species $0 \times 1 = 0$
2.				FACW species 0 x 2 = 0
3.				FAC species 0 x 3 = 0
4.				
5				
6.				UPL species 20 x 5 = 100
7				Column Totals:115 (A)480 (B)
56. 1	15	= Total	Cover	
Herb Stratum (Plot size: 5 ft radius)		3 7	EACH	Prevalence Index = B/A = 4.2
Festuca rubra Daucus carota	<u>55</u> 20	Yes Yes	FACU UPL	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
Fragaria virginiana Taraxacum officinale	10	No No	FACU FACU	2 - Dominance Test is >50%
5. Trifolium repens		No	FACU	-
6.				3 - Prevalence Index is ≤3.0 ¹
7.		. ———		4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.		. ———		Problematic Hydrophytic Vegetation ¹ (Explain)
10.				
11.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12.				be present, unless distarbed of problematic.
	100	= Total	Cover	Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: 30 ft radius)				Tree — Woody plants 3 in. (7.6 cm) or more in
1.				diameter
2				at breast height (DBH), regardless of height.
4.				Sapling/shrub — Woody plants less than 3 in. DBH
4		= Total	Cover	and greater than or equal to 3.28 ft (1 m) tall.
		_ 10tai	Cover	Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate sh The criterion for hydrophytic vegetation is not met.	neet.)			Vegetation

SOIL Sampling Point: <u>U-JMS-2</u>

JOIL								Sampling Fount. 0-31413-2
Profile Desc	cription: (Describe t	o the dep	th needed to docu	ment th	e indica	tor or co	onfirm the	absence of indicators.)
Depth	Matrix		Redox	Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 6	10YR 3/2	100					Clay Loa	m
6 to 14	10YR 4/1	85	10YR 4/6	15		M	Clay Loa	m
	<u> </u>							
				-				
				-				
			-					
¹ Type: C=Co	ncentration, D=Deple	tion, RM=	Reduced Matrix, CS	S=Cover	ed or Co	ated Sa	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							Indicators for Problematic Hydric Soils ³ :
Histosol (Polyvalue Be		face (S8) (LRR I	₹,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149E		30) (I DD		A 4 40D)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Hist	tic (A3) i Sulfide (A4)		Thin Dark Su Loamy Muck					5 cm Muck Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
	Layers (A5)		Loamy Gleye			12, 1	-,	Polyvalue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface ((A11)	X Depleted Ma	trix (F3)				Thin Dark Surface (S9) (LRR K, L)
	k Surface (A12)		Redox Dark					Iron-Manganese Masses (F12) (LRR K, L, R)
	ucky Mineral (S1) eyed Matrix (S4)		Depleted Da Redox Depre					Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	, , ,		Redox Depic	23310113	(ГО)			Red Parent Material (F21)
	Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surf	ace (S7) (LRR R, ML	RA 149B)						Other (Explain in Remarks)
³ Indicators of	f hydrophytic vegetati	on and we	tland hydrology mu	st be pre	esent, un	less dist	urbed or p	roblematic.
Restrictive L	_ayer (if present):							
Type: Cla								
Depth (inc	:hes): <u>14</u>							Hydric Soil Present? Yes X No
Remarks:								
	ion for hydric soil is me	t.						



OEPA ORAM Data Form

Background Information

Name: Jenna Slabe	
Date: 3/25/2024	
Affiliation:	
TRC Companies, Inc.	
Address: 1382 West Ninth Street, Suite 400 Cleveland, OH 44113	
Phone Number: 330-998-0481	
e-mail address: jslabe@tccompanies.com	
Name of Wetland: W-JMS-01	
Vegetation Communit(ies): PEM, PFO	
HGM Class(es): Riparian Depression	
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.	
Wetland W-JMS-01 is located east of Pemberville Road and west of Brad	dner Road in
Troy Township, Wood County Ohio.	
	41.47234585, -83.44503153
USGS Quad Name	Pemberville
County	Wood
Township	Troy
Section and Subsection	N/A
Hydrologic Unit Code	04100010 0601
Site Visit	3/25/2024
National Wetland Inventory Map	PFO1A; R5UBH
Ohio Wetland Inventory Map	N/A
Soil Survey	HcA

See Report

Delineation report/map

Name of Wetland:	
W-JMS-01 Wetland Size (acres, hectares):	
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.	0.08-acre +
See Figure 5 Delineated Resources in Appendix A of the Surface Water Report.	Delineation
Comments, Narrative Discussion, Justification of Category Changes: Based upon a review of available aerial photographs and topography alo observation made during the March 2024 field visit, it appears that Wetla continues outside of the study area to the west and east. Per the Ohio El Rapid Assessment Manual, these areas have been taken into considerat scoring of Wetland W-JMS-01.	nd W-JMS-01 PA's Ohio
Final score : 35 Category:	Mod 2

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	Х	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	Х	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	Х	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	х	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		Х
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.	Х	

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	NO Go to Question 2
2	has had critical habitat proposed (65 FR 41812 July 6, 2000). Threatened or Endangered Species. Is the wetland known to contain	YES	(NO)
2	an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	Wetland is a Category 3 wetland.	Go to Question 3
		Go to Question 3	
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland	YES	NO
	contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category 3 wetland	Go to Question 5
		Go to Question 5	
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no	YES	(NO)
	significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	Wetland is a Category 3 wetland	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that	Go to Question 7 YES	NO
÷	is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	Wetland is a Category 3 wetland Go to Question 8a	Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	NO
	forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b

8b	Mature forested wetlands. Is the wetland a forested wetland with	YES	NO
	50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Category o status.	
		Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at	YES	NO
	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to	YES	NO
	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
		Go to Question 10	
9с	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland	YES	NO
	border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant		
	native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		3 Welland	
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES	NO
	tolerant hauve plant species within its vegetation communities?	Wetland should be	Go to Question 10
		evaluated for possible	
		Category 3 status	
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 11
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of	Go to Question 11	
	Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.		
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies	YES	NO
	were formerly located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marion	evaluated for possible	Quantitative
	Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	Category 3 status	Rating
	Montgomery, Van Wert etc.).	Complete Quantitative	
		Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		C C
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: F	irstEne	rgy, Fostoria Central-Lalle Rater(s): Jenna Slal	oe, Emma Given	Date: 2024-03-25
2 max 6 pts.	2 subtotal	Metric 1. Wetland Area (size).	TYPE: PEN	
4	6	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) X 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) Metric 2. Upland buffers and surrou	Continues O	
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score WIDE. Buffers average 50m (164ft) or more around wetland MEDIUM. Buffers average 25m to <50m (82 to <164ft) a X NARROW. Buffers average 10m to <25m (32ft to <82ft) VERY NARROW. Buffers average <10m (<32ft) around 2b. Intensity of surrounding land use. Select one or double check a VERY LOW. 2nd growth or older forest, prairie, savanna X LOW. Old field (>10 years), shrub land, young second growth or older forest pasture, park, X HIGH. Urban, industrial, open pasture, row cropping, mir	and perimeter (7) round wetland perimeter (4) around wetland perimeter (1) wetland perimeter (0) and average. h, wildlife area, etc. (7) rowth forest. (5) conservation tillage, new fall	ow field. (3)
17	23	Metric 3. Hydrology.		
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply. High pH groundwater (5) Other groundwater (3) X Precipitation (1) Seasonal/Intermittent surface water (3) X 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 0.7m (15.7 to 27.6in) (2) X <0.4m (<15.7in) (1) 3e. Modifications to natural hydrologic regime. Score one or double None or none apparent (12) X Recovered (7) X Recovering (3) Recent or no recovery (1) Residue (12) Check all disturbances observed (12) Recovering (13) Recent or no recovery (1)	A Part of wetland/u A Part of riparian of 3d. Duration inundation/sat A Semi- to perman A Regularly inundation/sat Seasonally inundation/sat Seasonally satur a check and average.	ain (1) l'ake and other human use (1) l'pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one/dbl check avg. ently inundated/saturated (4) tted/saturated (3) dated (2) ated in upper 30cm (12in) (1)
10	33	Metric 4. Habitat Alteration and Dev	elopment.	
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) X Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average. None or none apparent (9) X Recovered (6) X Recovering (3) Recent or no recovery (1) Check all disturbances obs mowing grazing clearcutting selective cutting	served X shrub/sapling rer herbaceous/aqua sedimentation	
SL	33 ubtotal this pa	selective cutting woody debris remova toxic pollutants	dredging farming nutrient enrichme	ent

last revised 1 February 2001 jjm

Site: F	irstEne	rgy, Fostoria Central-Lalle Rate	r (s): Jenna	Slabe, Emma Given Date: 2024-03-25
sul	33 btotal first pa	lge		
0	33	Metric 5. Special Wetland	ds.	
max 10 pts.	subtotal	Check all that apply and score as indicated. Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland-Lake Erie coastal/tributary wetland-Lake Plain Sand Prairies (Oak Oper Relict Wet Prairies (10) Known occurrence state/federal three Significant migratory songbird/water Category 1 Wetland. See Question 2	estricted hydrolo lings) (10) eatened or endal fowl habitat or u	ngered species (10) usage (10)
2	35	Metric 6. Plant communi	ties, inte	rspersion, microtopography.
max 20 pts.	subtotal	6a. Wetland Vegetation Communities. Score all present using 0 to 3 scale.		community Cover Scale
		Aquatic bed Emergent Shrub	1	Absent or comprises <0.1ha (0.2471 acres) contiguous area Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
		1 Forest Mudflats Open water	2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
		Control of the contro	3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality
		Select only one.	Narrative De	scription of Vegetation Quality
		High (5) Moderately high (4) Moderate (3)	low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
nvasives pr	esent:	X Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add	mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
eed canary (grass	or deduct points for coverage Extensive >75% cover (-5) X Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Nearly absent <5% cover (0) 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 acres)
		Vegetated hummucks/tussucks 1 Coarse woody debris >15cm (6in)	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Standing dead >25cm (10in) dbh	3	High 4ha (9.88 acres) or more
		Amphibian breeding pools	Microtopogra	aphy Cover Scale
			0	Absent
			1	Present very small amounts or if more common of marginal quality
			2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
	l		3	Present in moderate or greater amounts and of highest quality
35	Mo	dified Category 2		

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM Summary Worksheet

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	2	
J	Metric 2. Buffers and surrounding land use	4	
	Metric 3. Hydrology	17	
	Metric 4. Habitat	10	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	2	
	TOTAL SCORE	35	Category based on score breakpoints Mod 2

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments
Did you answer "Yes" to Narrative Rating No. 5	3 status YES Wetland is categorized as a Category 1 wetland	NO	may also be used to determine the wetland's category. Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	been under-categorized by the ORAM If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	NO Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

Final Category

Choose one	Category 1	Category 2	Category 3

End of Ohio Rapid Assessment Method for Wetlands.

Background Information

Name: Jenna Slabe	
Date: 3/25/2024	
Affiliation:	
TRC Companies, Inc. Address:	
1382 West Ninth Street, Suite 400 Cleveland, OH 44113	
Phone Number: 330-998-0481	
e-mail address: jslabe@tccompanies.com	
Name of Wetland: W-JMS-02	
Vegetation Communit(ies): PEM	
HGM Class(es): Depression	
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.	
Wetland W-JMS-02 is located east of Pemberville Road and west of Bra	dner Road in
Troy Township, Wood County Ohio.	
	I
Lattleng or LITM Coordinate	
Lat/Long or UTM Coordinate	41.473693, -83.444788
USGS Quad Name	Pemberville
County	Wood
Township	Troy
Section and Subsection	N/A
Hydrologic Unit Code	04100010 0601
Site Visit	3/25/2024
National Wetland Inventory Map	N/A
Ohio Wetland Inventory Map	N/A
Soil Survey	HcA
Delineation report/map	See Report

Name of Wetland: W-JMS-02	
Wetland Size (acres, hectares):	0.58-acre +
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.	0.00 40/0
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc. See Figure 5 Delineated Resources in Appendix A of the Surface Water Report.	Delineation
Comments, Narrative Discussion, Justification of Category Changes: Based upon a review of available aerial photographs and topography ale observation made during the March 2024 field visit, it appears that Wetla continues outside of the study area to the north, west, and east. Per the Ohio Rapid Assessment Manual, these areas have been taken into consthe scoring of Wetland W-JMS-02.	and W-JMS-02 Ohio EPA's
Final score : ₂₇ Category:	1

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	Х	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	Х	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	Х	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	х	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		Х
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.	Х	

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	NO Go to Question 2
2	has had critical habitat proposed (65 FR 41812 July 6, 2000). Threatened or Endangered Species. Is the wetland known to contain	YES	(NO)
2	an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	Wetland is a Category 3 wetland.	Go to Question 3
		Go to Question 3	
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland	YES	NO
	contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	Wetland is a Category 3 wetland	Go to Question 5
		Go to Question 5	
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no	YES	(NO)
	significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	Wetland is a Category 3 wetland	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that	Go to Question 7 YES	NO
÷	is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	Wetland is a Category 3 wetland Go to Question 8a	Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	NO
	forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b

8b	Mature forested wetlands. Is the wetland a forested wetland with	YES	NO
	50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Category o status.	
		Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at	YES	NO
	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to	YES	NO
	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
		Go to Question 10	
9с	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland	YES	NO
	border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 10
9d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant		
	native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		3 Welland	
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES	NO
	tolerant hauve plant species within its vegetation communities?	Wetland should be	Go to Question 10
		evaluated for possible	
		Category 3 status	
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 11
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of	Go to Question 11	
	Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.		
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies	YES	NO
	were formerly located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marion	evaluated for possible	Quantitative
	Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	Category 3 status	Rating
	Montgomery, Van Wert etc.).	Complete Quantitative	
		Rating	

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumii
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsii
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
	Parnassia glauca	Schechzeria palustris		Lythrum alatum
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianum
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceum
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddellii
	Salix serissima	Xyris difformis		C C
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site: [⊢]	irstEne	rgy, Fostoria Central-Lalle Rater(s): Emm	a Given, Jenna Slabe	Date: 2024-03-25
3	3	Metric 1. Wetland Area (size).	RESOURC TYPE: PEN	E ID: W-JMS-02
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) X 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)	Continues O	
3	6	Metric 2. Upland buffers and su		
max 14 pts.	subtotal	Jaa. Calculate average buffer width. Select only one and ass WIDE. Buffers average 50m (164ft) or more arour MEDIUM. Buffers average 25m to <50m (82 to <) X NARROW. Buffers average 10m to <25m (32ft to VERY NARROW. Buffers average <10m (<32ft) a 2b. Intensity of surrounding land use. Select one or double VERY LOW. 2nd growth or older forest, prairie, sa LOW. Old field (>10 years), shrub land, young se X MODERATELY HIGH. Residential, fenced pastur X HIGH. Urban, industrial, open pasture, row cropp	nd wetland perimeter (7) L64ft) around wetland perimeter (4) <82ft) around wetland perimeter (1) around wetland perimeter (0) check and average. avannah, wildlife area, etc. (7) cond growth forest. (5) e, park, conservation tillage, new falle	ow field. (3)
10	16	Metric 3. Hydrology.		
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply. High pH groundwater (5) Other groundwater (3) X Precipitation (1) Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5) 3c. Maximum water depth. Select only one and assign scoresion of the surface water (27) X <0.4m (<15.7in) (1) 3e. Modifications to natural hydrologic regime. Score one of None or none apparent (12) X Recovered (7) X Recovering (3) Recent or no recovery (1) Glick weir	X Part of wetland/u Part of riparian o 3d. Duration inundation/sative. Semi to perman Regularly inunda X Seasonally inunda Seasonally saturer double check and average. ces observed point source (nor filling/grading road bed/RR trad	ain (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one/dbl check avg. ently inundated/saturated (4) ted/saturated (3) lated (2) ated in upper 30cm (12in) (1)
10	26	Metric 4. Habitat Alteration and		
max 20 pts.	subtotal	4a. Substrate disturbance. Score one or double check and a None or none apparent (4) X Recovered (3) X 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) X Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and averation of the second of the s	average.	
SI	26 ubtotal this pa	selective cuttii woody debris toxic pollutant	removal farming	ent

Page 7 of 10

last revised 1 February 2001 jjm

Site: Fi	rstEner	gy, Fostoria Co	entral-Lalle	Rater((s): Emma	Given, Jenna Slabe	Date: 2024-03-25
sub	26 total first pa	e					
0	26	Metric 5.	Special W	etland	s.		
max 10 pts.	subtotal	Mature f Lake Eri Lake Eri Lake Pla Relict W Known o	ovth forest (10) forested wetland (9 e coastal/tributary e coastal/tributary ain Sand Prairies (10)	5) wetland-ur wetland-re Oak Openir ederal threa bird/water fo	stricted hydrolo ngs) (10) tened or endar owl habitat or u	nggy (5) ngered species (10) usage (10)	
1	27	Metric 6. I	Plant com	muniti	ies, inte	rspersion, microt	copography.
max 20 pts.	subtotal	6a. Wetland Veget	ation Communitie	S.	Vegetation C	ommunity Cover Scale	
		Score all prese	ent using 0 to 3 sc	ale.	0	Absent or comprises <0.1ha (0	
		2 Aquatic 2 Emerger Shrub			1	Present and either comprises s vegetation and is of modera significant part but is of low	te quality, or comprises a
		Forest Mudflats Open wa			2	Present and either comprises s vegetation and is of modera part and is of high quality	significant part of wetland's te quality or comprises a small
		Other: _ 6b. Horizontal (pla	n view) Interspers	ion.	3	Present and comprises signific vegetation and is of high qua	
		Select only one			Marrative Dec	scription of Vegetation Quality	ı
		High (5) Moderat Moderat	ely high (4)		low	Low spp diversity and/or predo disturbance tolerant native s	minance of nonnative or
nvasives pro	esent:	Low (1) None (0) 6c. Coverage of in to Table 1 ORA	, vasive plants. Ref AM long form for lis		mod	Native spp are dominant comp although nonnative and/or d can also be present, and sp moderately high, but genera threatened or endangered s	isturbance tolerant native spp ecies diversity moderate to Illy w/o presence of rare
ourple looses canary grass	trife,reed	X Moderat Sparse 5	/e >75% cover (-5) e 25-75% cover (- 5-25% cover (-1)	3)	high		native spp absent or virtually ity and often, but not always,
			bsent <5% cover	(0)			
		Absent (6d. Microtopograp	. ,			Open Water Class Quality Absent <0.1ha (0.247 acres)	
			ent using 0 to 3 sca	ale.	0 1	Low 0.1 to <1ha (0.247 to 2.47	acres)
		1 Vegetate	ed hummucks/tuss	sucks	2	Moderate 1 to <4ha (2.47 to 9.	
			woody debris >150	. ,	3	High 4ha (9.88 acres) or more	
			g dead >25cm (10 an breeding pools		Microtopogra	aphy Cover Scale	
		,p			0	Absent	
					1	Present very small amounts or of marginal quality	
					2	Present in moderate amounts, quality or in small amounts of	
27	Cat	egory 1			3	Present in moderate or greater and of highest quality	amounts
27	Cd	egury I					

End of Quantitative Rating. Complete Categorization Worksheets.

ORAM Summary Worksheet

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	3	
Ü	Metric 2. Buffers and surrounding land use	3	
	Metric 3. Hydrology	10	
	Metric 4. Habitat	10	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	1	
	TOTAL SCORE	27	Category based on score breakpoints

Complete Wetland Categorization Worksheet.

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score <i>less</i> than the Category 2 scoring threshold (<i>excluding</i> gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

Final Category

Choose one	Category 1	Category 2	Category 3

End of Ohio Rapid Assessment Method for Wetlands.



OEPA QHEI Data Form



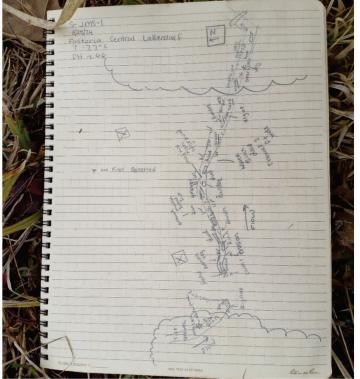
Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 38.50

Stream & Location: S-JMS-1 (UNT to Toussaint Creek)	RM:	0.3	Date:	3 / 25 /
East of Pemberville Rd & west of Bradner Rd Troy Twp, OH Scorers Full Name & Affiliation:	E. Giver	n t & J. :	Slabe, TRC Er	vironmental Corp
River Code: STORET #: Lat./ Long.: 41 . 4724	71 _ /8	<u>3</u> .	445118	Office verified location
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE LIMESTONE [1] LIMESTONE [1]	SI	LT	Average) QUA HEAVY MODEF NORMA FREE [: EXTEN: MODEF NORMA	[-2] AATE [-1] Substrat [-2] AL [0] 7.00 RATE [-1] AL [0] Maximun 20
Comments 3 or less [0] SHALE [-1] COAL FINES [-2]				
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common quality; 2-Moderate amounts, but not of highest quality or in small amounts quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional 0 UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWATE OVERHANGING VEGETATION [1] ROOTWADS [1] AQUATIC MACROPHY BOULDERS [1] LOGS OR WOODY DEFINITION [1] COMMENTS [1] BOULDERS [1] LOGS OR WOODY DEFINITION [1] COMMENTS	of high r, large pools. ERS [1] TES [1]	est C	EXTENSIV MODERAT SPARSE 5	OUNT Or 2 & average) E >75% [11] E 25-75% [7] -<25% [3] BSENT <5% [1] Cover Maximum 6.00
				20
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4] EXCELLENT [7] NONE [6] HIGH [3] MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2] LOW [2] FAIR [3] RECOVERING [3] LOW [1] NONE [1] POOR [1] RECENT OR NO RECOVERY [1]				Channel Maximum 20
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Control of the control of the contr	TY	R CC UF MI	ONSERVATI	ON TILLAGE [1] NDUSTRIAL [0] ISTRUCTION [0] land use(s) Riparian Maximum 10 6.50
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH Check ONE (ONLY!) > 1m [6] 0.7-<1m [4] 0.4-<0.7m [2] 0.2-<0.4m [1] <0.2cm [0] Comments CHANNEL WIDTH CHANN	TIAL [-1 TENT [:	1]	Primar _y Seconda	on Potential y Contact cry Contact comment on back) Pool / Current Maximum 12
Indicate for functional riffles; Best areas must be large enough to support of riffle-obligate species: Check ONE (Or 2 & average). RIFFLE DEPTH BEST AREAS > 10cm [2] BEST AREAS 5-10cm [1] BEST AREAS 5-10cm [1] BEST AREAS < 5cm [metric=0] Comments Check ONE (Or 2 & average). RIFFLE / RUN SUBSTRATE RIFICATION RIFFLE / RUN SUBSTRATE RIFFLE / RUN SUBSTRAT	 FLE ا	RUN NO LOV	<u>⊠NC</u> EMBED[NE [2]	DEDNESS Riffle
6] GRADIENT (1.84 ft/mi)	%GL %RIFI		0	Gradient Maximum

Comment RE: Reach consistency/ Is reach typical of steam?, Recreation/ Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc.

Stream Drawing:



SKETCH OF STREAM REACH: S-JMS-01

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