

WETLAND DETERMINATION DATA SHEETS AND SITE PHOTO DOCUMENTATION

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Buckeye Partners F-0005785 City/County: Mantua/Portage Sampling Date: 7/22/2026
Applicant/Owner: Buckeye Partners LP State: OH Sampling Point: S1
Investigator(s): BC Dickson Section, Township, Range: S42 T5N R8W
Landform (hillside, terrace, etc.): Stream Floodplain Local relief (concave, convex, none): None Slope %: 0 - 1
Subregion (LRR or MLRA): 192 (Lake Erie Glaciated Plateau) Lat: 41.281817 Long: -81.196729 Datum: UTM83
Soil Map Unit Name: Holly silt loam, 0 to 2 % NWI classification: PEM1F
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)
The sample point is located in a mapped wetland (PEM1F) in ODNR Managed Lands south of Mennonite Road. The wetland is located between Mennonite Road and Headwaters Trail. Headwaters trail is on an abandoned rail line and serves as a bicycle/walking trail. A small tributary to the Cuyahoga River passes thru a culvert under the Headwaters Trail and has historically been obstructed by beavers thereby flooding the upstream wetland. Recently the culvert has been opened and the majority of the wetland has been dewatered except for the original stream channel. Wetland boundary on south side of ROW is abandoned railroad fill.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u>X</u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>8</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Soil saturated at surface and spongy throughout area. The only standing water was restricted to the original stream channel that is well away (north) from the sample point. Flooding is seasonal and dependent on beaver activity.

VEGETATION – Use scientific names of plants.

 Sampling Point: S1

Tree Stratum (Plot size: <u>10 m</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>NA</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	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 = _____	
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 = _____																				
		=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>3 m</u>)																				
1. <u>NA</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover		Hydrophytic Vegetation Indicators: ☒ 1 - Rapid Test for Hydrophytic Vegetation ☒ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤3.0 ¹ ☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
		=Total Cover																		
Herb Stratum (Plot size: <u>1 m</u>)																				
1. <u>Leersia oryzoides</u>	<u>60</u>	<u>Y</u>	<u>OBL</u>																	
2. <u>Polygonum punctatum</u>	<u>20</u>	<u>N</u>	<u>OBL</u>																	
3. <u>Schoenoplectus tabernaemontani</u>	<u>10</u>	<u>N</u>	<u>OBL</u>																	
4. <u>Epilobium coloratum</u>	<u>5</u>	<u>N</u>	<u>OBL</u>																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
		<u>95</u> =Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
		=Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 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 vines – All woody vines greater than 3.28 ft in height.																

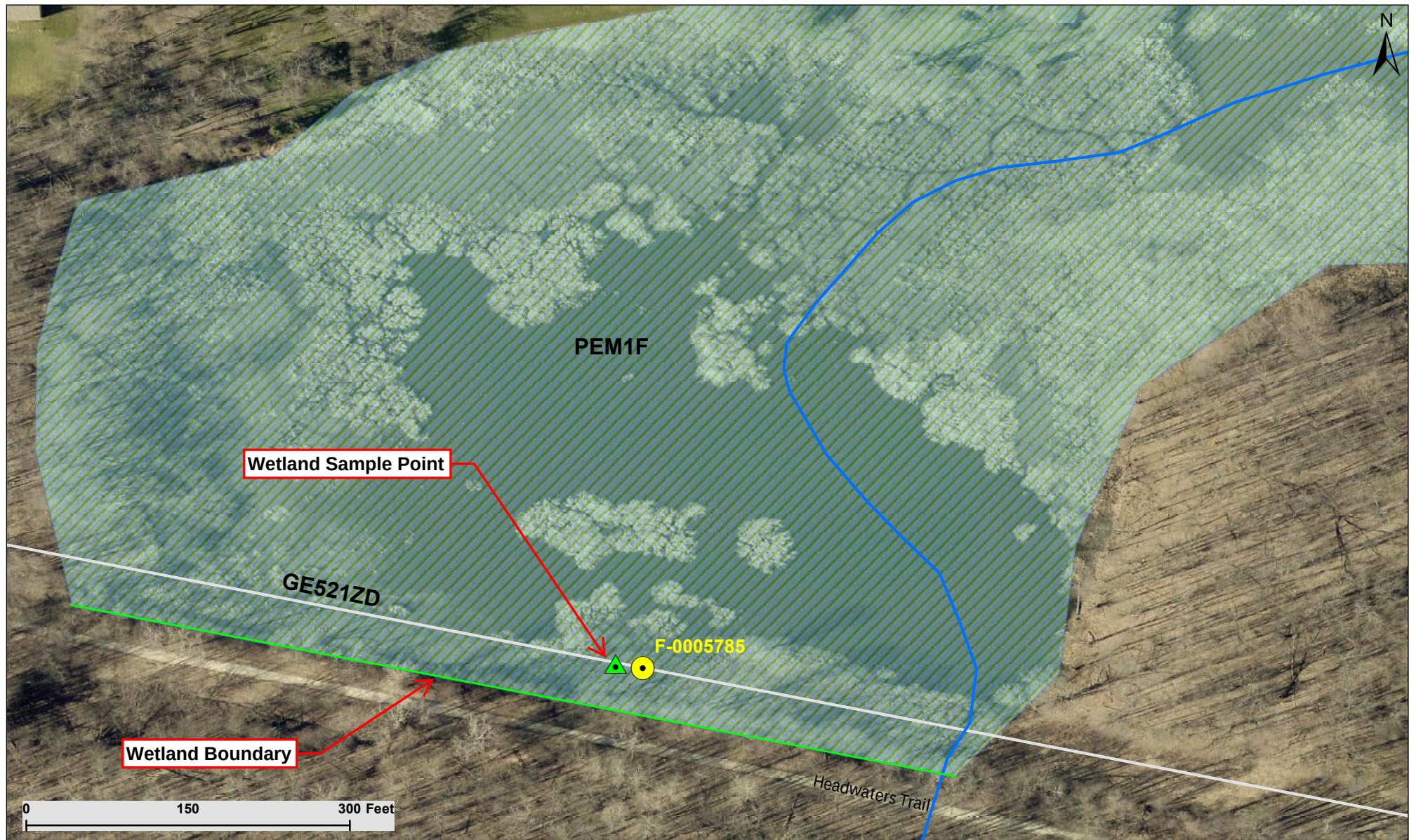
Remarks: (Include photo numbers here or on a separate sheet.)

See photos. Sample area on pipeline ROW dominated by *Leersia oryzoides* with other species intermixed. All species within plot are OBL. Other common species within the greater wetland (outside the sample plot) included: *Scirpus cyperinus*, *Sparganium americanum*, *Rorippa sylvestris*, *Spiraea alba*, *Salix nigra*, *Pilea pumila*, *Eupatorium perfoliatum*, *Thelypteris palustris*, *Galium asprellum*, *Eutrochium maculatum*, *Typha angustifolia*, *Asclepias incarnata*, *Onoclea sensibilis*, *Polygonum sagittatum*, *Epilobium coloratum*, *Ludwigia palustris*, *Impatiens capensis*, Invasives: Rosa multiflora

NOTE: The greater vegetation community composition shifts at the floodplain boundary of the trib to the Cuyahoga River.

Sampling Point	FP2
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Northcentral and Northeast – Version 2.0



DRAWN BY BCD	 REDHORSE ENVIRONMENTAL P.O. Box 148 Tionesta, PA 16353 www.redhorseenvironmental.com	
DATE 7/30/2026		Buckeye Partners Line 521 F-0005785 Mantua, OH
JOB NO.		Wetland Sample Point: 41.281817 -81.196729
Project Manager: Rich Burns		



Figure 1. View looking north on ROW at wetland sample point 1.
(41.281817 -81.196729)



Figure 2. View of project area on pipeline ROW looking east (photo left) and west (photo right) of wetland south of Mennonite Road and north of Headwaters Trail.



Figure 3. View looking north across ROW at project area toward Mennonite Road



Figure 4. View looking northeast across greater wetland toward Mennonite Road



Figure 5. View looking east along Headwaters Trail of bank descending into wetland.
Base of bank is an abrupt wetland boundary.

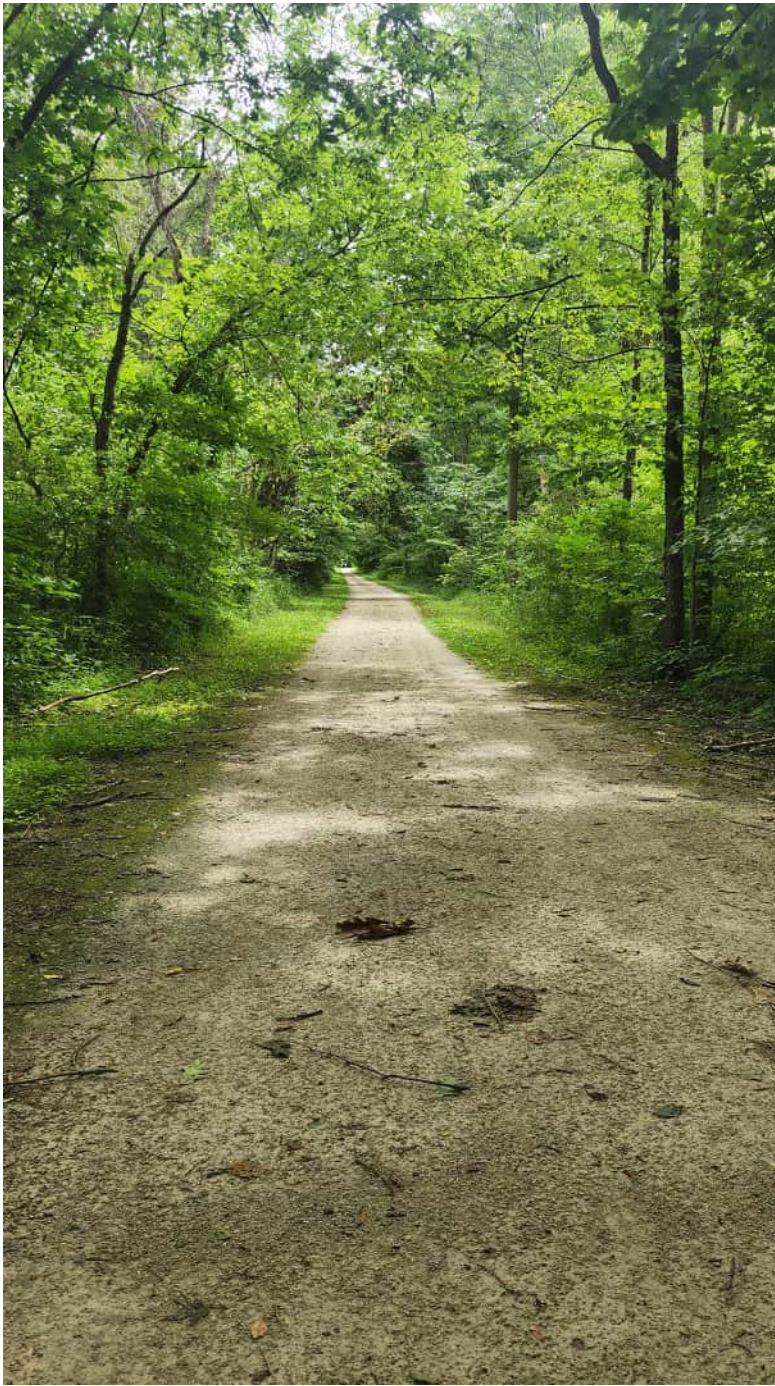


Figure 6. View looking east along Headwaters Trail (access route to project work area; photo left) and perennial tributary to the Cuyahoga River at the culvert outlet (photo right).



Figure 7. View looking east across greater wetland where the vegetation community changes along the active floodplain of the tributary to the Cuyahoga River. This area is north on the Buckeye ROW.