

DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, MOBILE DISTRICT P.O. BOX 2288 MOBILE, ALABAMA 36628-0001

Special Projects Branch Mobile District, Regulatory Division

January 16, 2025

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Pre-2015 Regulatory Regime Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 598 U.S. 651 (2023), ¹ SAM-2024-00981-STB, (MFR 1 of 1)²

BACKGROUND. An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.³ AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.⁴ For the purposes of this AJD, we have relied on section 10 of the Rivers and Harbors Act of 1899 (RHA).⁵ the Clean Water Act (CWA) implementing regulations published by the Department of the Army in 1986 and amended in 1993 (references 2.a. and 2.b. respectively), the 2008 Rapanos-Carabell guidance (reference 2.c.), and other applicable guidance, relevant case law and longstanding practice, (collectively the pre-2015 regulatory regime), and the Sackett decision (reference 2.d.) in evaluating jurisdiction.

This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. The features addressed in this AJD were evaluated consistent with the definition of "waters of the United States" found in the pre-2015 regulatory regime and consistent with the Supreme Court's decision in *Sackett*. This

¹ While the Supreme Court's decision in *Sackett* had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

² When documenting aquatic resources within the review area that are jurisdictional under the Clean Water Act (CWA), use an additional MFR and group the aquatic resources on each MFR based on the TNW, interstate water, or territorial seas that they are connected to. Be sure to provide an identifier to indicate when there are multiple MFRs associated with a single AJD request (i.e., number them 1, 2, 3, etc.).

³ 33 CFR 331.2.

⁴ Regulatory Guidance Letter 05-02.

⁵ USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

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AJD did not rely on the 2023 "Revised Definition of 'Waters of the United States," as amended on 8 September 2023 (Amended 2023 Rule) because, as of the date of this decision, the Amended 2023 Rule is not applicable in Alabama due to litigation.

1. SUMMARY OF CONCLUSIONS.

- a. Provide a list of each individual feature within the review area and the jurisdictional status of each one (i.e., identify whether each feature is/is not a water of the United States and/or a navigable water of the United States).
 - i. Aquatic Feature 1 non jurisdictional, non-relatively permanent tributary

2. REFERENCES.

- a. Final Rule for Regulatory Programs of the Corps of Engineers, 51 FR 41206 (November 13, 1986).
- b. Clean Water Act Regulatory Programs, 58 FR 45008 (August 25, 1993).
- c. U.S. EPA & U.S. Army Corps of Engineers, Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States* & *Carabell v. United States* (December 2, 2008)
- d. Sackett v. EPA, 598 U.S. 651 (2023)
- e. 2008 Rapanos Guidance
- 3. REVIEW AREA. The review area at Bridge Meador 113.07 is located approximately 1,000 feet north of the at-grade crossing of Barney Road in Simpson County, Mississippi. The bridge is geographically located at 31.820039 North and 89.66428 West, which is in Section 24 Township 10 North and Range 17 West. The location of the bridge is shown on the Site Location Topo Map, which is based on the Magee South, Mississippi 1:24,000 USGS topographic quadrangle (Figure 1). Currently, the western site conditions of the review area consist of recently logged silviculture acreages and farmland. The eastern extent of the site is an undeveloped herbaceous field.
- 4. NEAREST TRADITIONAL NAVIGABLE WATER (TNW), INTERSTATE WATER, OR THE TERRITORIAL SEAS TO WHICH THE AQUATIC RESOURCE IS

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CONNECTED.⁶ The nearest TNW is Leaf River. Leaf River, located approximately 213,000 linear feet (40 miles) downstream from the subject property, is on the Mobile District's Section 10 waters list and is therefore a TNW.

- 5. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, INTERSTATE WATER, OR THE TERRITORIAL SEAS. Aquatic Resource 1 flows under Meador Bridge into the eastern herbaceous field and approximately 300 feet east to an unnamed tributary to McLauren Creek, which flows approximately 2,600 feet to the south and converges with McLauren Creek. McLauren Creek meanders to the southwest where it converges with Uspoha Creek, approximately 5,900 feet downstream. This confluence merges into Okatoma Creek, ultimately flowing an additional 230,000 feet downstream, converging with the aforementioned Leaf River, a TNW. The cumulative distance for water on the subject site to reach a TNW (Leaf River) is approximately 238,500 feet.
- 6. SECTION 10 JURISDICTIONAL WATERS⁷: Describe aquatic resources or other features within the review area determined to be jurisdictional in accordance with Section 10 of the Rivers and Harbors Act of 1899. Include the size of each aquatic resource or other feature within the review area and how it was determined to be jurisdictional in accordance with Section 10.8 N/A
- 7. SECTION 404 JURISDICTIONAL WATERS: Describe the aquatic resources within the review area that were found to meet the definition of waters of the United States in accordance with the pre-2015 regulatory regime and consistent with the Supreme Court's decision in *Sackett*. List each aquatic resource separately, by name, consistent with the naming convention used in section 1, above. Include a rationale for each aquatic resource, supporting that the aquatic resource meets the relevant category of "waters of the United States" in the pre-2015 regulatory regime. The rationale should also include a written description of, or reference to a map in the administrative record that shows, the lateral limits of jurisdiction for each aquatic

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⁶ This MFR should not be used to complete a new stand-alone TNW determination. A stand-alone TNW determination for a water that is not subject to Section 9 or 10 of the Rivers and Harbors Act of 1899 (RHA) is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established.

⁷ 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as "navigable in law" even though it is not presently used for commerce, or is presently incapable of such use because of changed conditions or the presence of obstructions.

⁸ This MFR is not to be used to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedures outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the RHA.

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resource, including how that limit was determined, and incorporate relevant references used. Include the size of each aquatic resource in acres or linear feet and attach and reference related figures as needed.

- a. TNWs (a)(1): N/A
- b. Interstate Waters (a)(2): N/A
- c. Other Waters (a)(3): N/A
- d. Impoundments (a)(4): N/A
- e. Tributaries (a)(5): N/A
- f. The territorial seas (a)(6): N/A
- g. Adjacent wetlands (a)(7): N/A

8. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES

- a. Describe aquatic resources and other features within the review area identified as "generally non-jurisdictional" in the preamble to the 1986 regulations (referred to as "preamble waters"). Include size of the aquatic resource or feature within the review area and describe how it was determined to be non-jurisdictional under the CWA as a preamble water. N/A
- b. Describe aquatic resources and features within the review area identified as "generally not jurisdictional" in the *Rapanos* guidance. Include size of the aquatic resource or feature within the review area and describe how it was determined to be non-jurisdictional under the CWA based on the criteria listed in the guidance. N/A
- c. Describe aquatic resources and features identified within the review area as waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA. Include the size of the waste treatment system within the review area and describe how it was determined to be a waste treatment system. N/A
- d. Describe aquatic resources and features within the review area determined to be prior converted cropland in accordance with the 1993 regulations (reference

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⁹ 51 FR 41217, November 13, 1986.

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- 2.b.). Include the size of the aquatic resource or feature within the review area and describe how it was determined to be prior converted cropland. N/A
- e. Describe aquatic resources (i.e. lakes and ponds) within the review area, which do not have a nexus to interstate or foreign commerce, and prior to the January 2001 Supreme Court decision in "SWANCC," would have been jurisdictional based solely on the "Migratory Bird Rule." Include the size of the aquatic resource or feature, and how it was determined to be an "isolated water" in accordance with SWANCC. N/A
- f. Describe aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the pre-2015 regulatory regime consistent with the Supreme Court's decision in *Sackett* (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water).

Aquatic Feature 1 has been identified as a non-relatively permanent water. This feature does not exhibit an observable ordinary high water mark and has ultimately been classified as a small drainage swale that directs stormwater sheet flow downgradient (to the east). Photos provided by the applicant (reference Figure sets 2 through 9) indicate sediment flow under Bridge Meador is primarily attributed to increases in available sediment upgradient as a result of recent silviculture/logging activities. These photos further indicate little to no discernable channel features, with no upgradient evidence of channel form. This channel is located above the water table, with the only source of water coming from precipitation events. Based on the evidence provided by the applicant, this feature is not classified as a wetland due to the lack of at a minimum of one of the three primary wetland indicators. Because Aquatic Feature 1 exhibits non-relatively permanent flow it is not a jurisdictional tributary.

- DATA SOURCES. List sources of data/information used in making determination.
 Include titles and dates of sources used and ensure that information referenced is
 available in the administrative record.
 - a. Desktop National Regulatory Viewer resource review conducted January 10, 2025. Additional desktop review of delineation conducted January 15, 2025.
 - b. Wetland Delineation from Brophy Heineke & Associates, Inc.
 - c. Review of LIDAR and DEM Imagery from National Regulatory Viewer Accessed January 15, 2025.

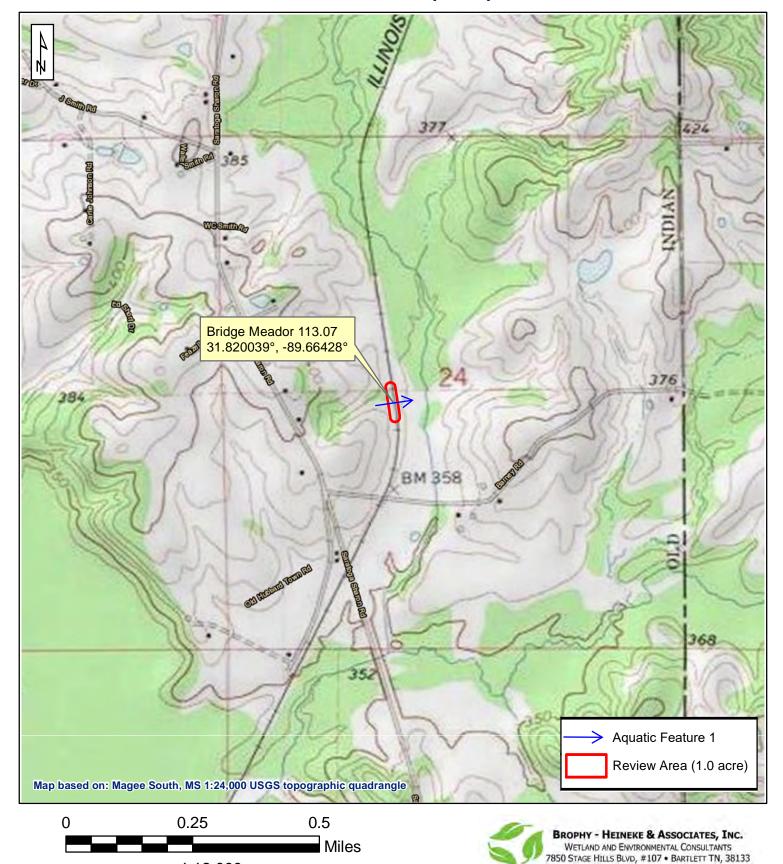
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- d. Review of NRV National Wetland Inventory imagery, accessed on January 15, 2025
- e. Report and supplemental information provided by Brophy Heineke & Associates, Inc.
- 10. OTHER SUPPORTING INFORMATION.
- 11. NOTE: The structure and format of this MFR were developed in coordination with the EPA and Department of the Army. The MFR's structure and format may be subject to future modification or may be rescinded as needed to implement additional guidance from the agencies; however, the approved jurisdictional determination described herein is a final agency action.

Illinois Central Railroad Bridge 113.07

Gulf Division, Meador Subdivision Simpson County, Mississippi

Site Location Topo Map



1:12,000

PHOTOGRAPHIC DOCUMENTATION IC Railroad Bridge Meador 113.07



Photo 1. A view of bridge Meador 113.07 taken from the tracks facing south.



Photo 2. A view of the western upgradient side of the bridge.



Photo 3. A view from the bridge facing west (upgradient). Logging slash was present in the right-of-way west of the bridge.



Photo 4. A view taken just west of the bridge facing north. Drainage patterns from surface runoff can be seen in this area amongst the logging slash.



Photo 5. A view from the bridge facing west. No discernable channels were found west of the bridge.



Photo 6. A view of the eastern site of the bridge facing upgradient (west).



Photo 7. A view from the bridge facing downgradient (east). Indicators of ordinary high water were not found at the bridge crossing.



Photo 8. A view from the bridge facing east (downgradient). A small, vegetated drainage swale was found in this area (indicated by the arrow). This swale did not appear to continue east of the railroad right-of-way.



Photo 9. A view from the bridge facing north. Logging slash can be seen along the edge of the railroad embankment.



Photo 10. A view from the tracks taken at the northern end of the review area facing south.



Photo 11. A view from the tracks taken at the southern end of the review area facing north.



Photo 12. A view of the drainage swale taken east of the bridge facing west (indicated by the arrow). Data Point 1 was collected in this area.



Photo 13. A view of the soil sample collected in Data Point 1.



Photo 14. A view taken in the vicinity of Data Point 2, which is located in the northeastern laydown area.



Photo 15. A view of the soil sample collected in Data Point 2.



Photo 16. A view of Data Point 3, which is located directly west of the bridge.



Photo 17. A view of the soil sample collected in Data Point 3.



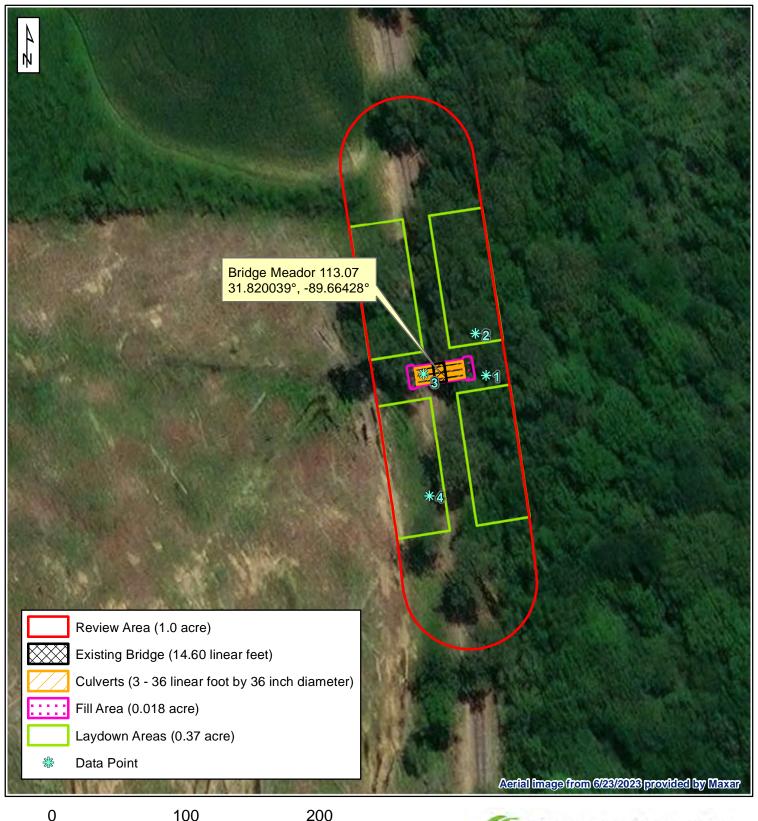
Photo 18. A view of Data Point 4, which is located in the southwestern laydown area.

Illinois Central Railroad Bridge 113.07

Gulf Division, Meador Subdivision Simpson County, Mississippi

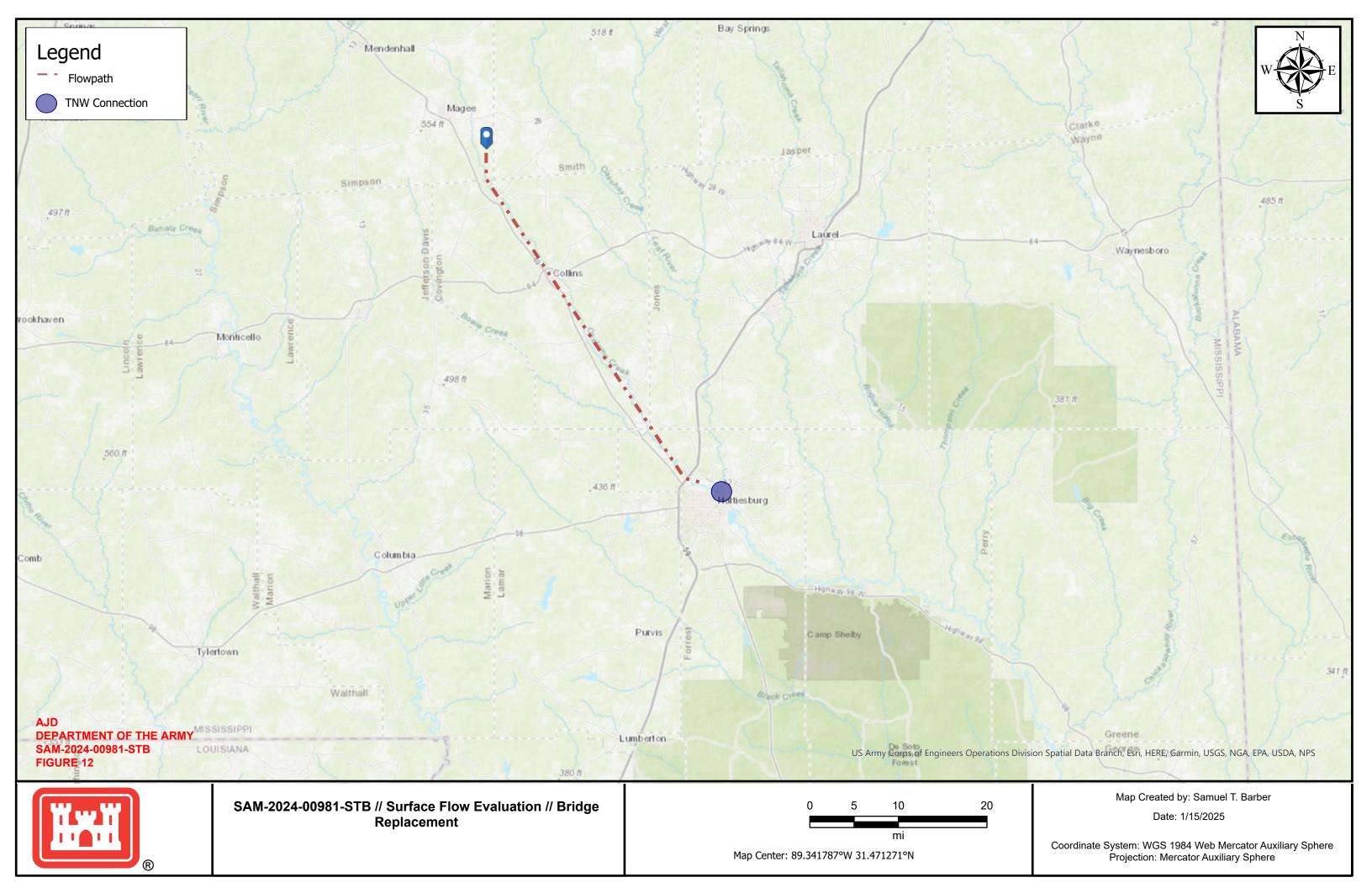
[NO WETLANDS IDENTIFIED]

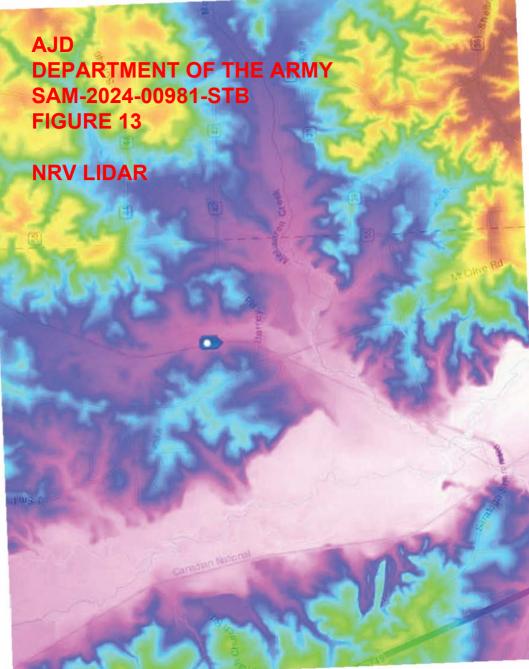
Features Map

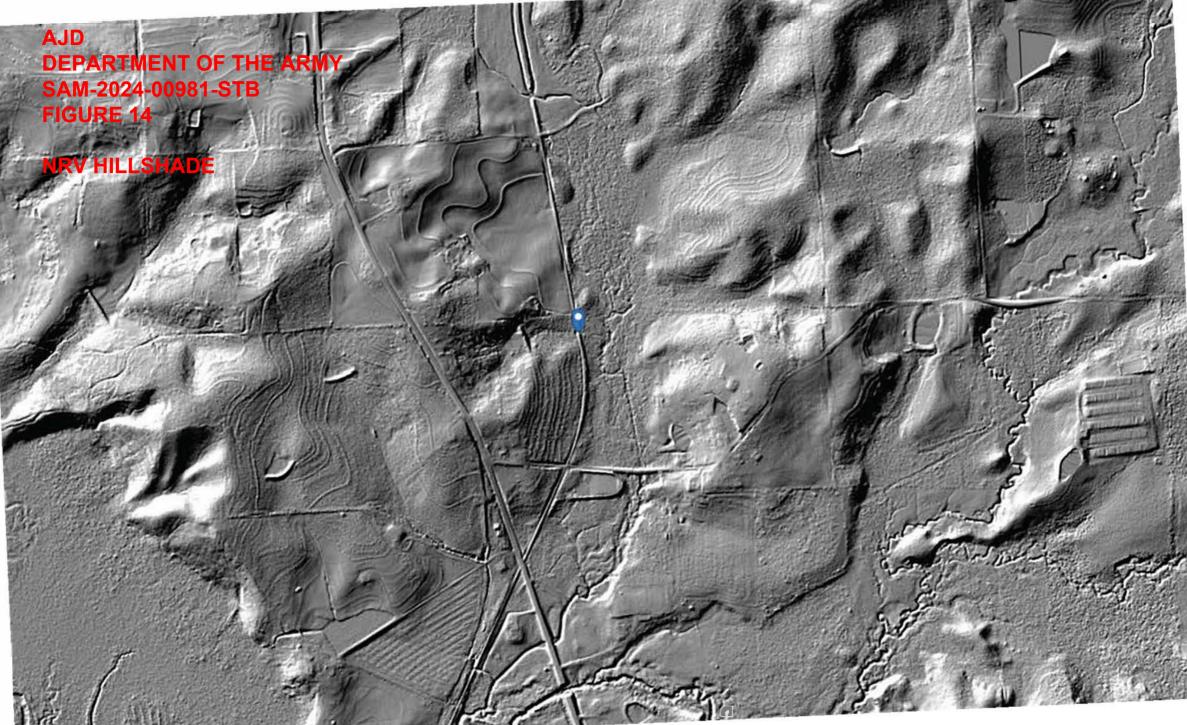


Feet

1:860







WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: IC Bridge Meador 113.07	Citv/County: near	Magee / Simpson	Sampling Date: 10/22/2024
Applicant/Owner: Illinois Central Railroad Company		State: MS	
		Range: S24 T10N R17W	
Landform (hillslope, terrace, etc.): Terrace	Local ratiof (concer	o convoy nano). None	Slope (%): <2%
Subregion (LRR or MLRA): P 133A Lat: 31.82		_ Long: -03.004103	Datum: IVADOS
Soil Map Unit Name: Stough loam, 0 to 2 percent slopes (StA)		NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this time of years.	ear? Yes N	o (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? A	re "Normal Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (I	f needed, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling poir	t locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Data point 1 is located within a small linear drainage sw railroad bridge Meador 113.07. This linear feature does a wetland.	within a We	tland? Yes within the railroad ROW	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply))	Surface Soil (Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1	13)	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U)	✓ Drainage Pat	terns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	nes (B16)
Water Marks (B1) Oxidized Rhizosph		· · — ·	Water Table (C2)
✓ Sediment Deposits (B2) Presence of Redu		Crayfish Burr	i i
<u> </u>	ction in Tilled Soils (C	· —	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic I	
Iron Deposits (B5) Other (Explain in F	Remarks)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		✓ FAC-Neutral	
Field Observations:		Spriagnum m	oss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches	a).		
Water Table Present? Yes No Depth (inches	I		
Saturation Present? Yes No J Depth (inches		Wetland Hydrology Presen	12 Vos V No
(includes capillary fringe)			tr res_v NO
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspecti	ons), if available:	
Remarks:			
The observed hydrologic indicators are likely from runor of persistent surface saturation were lacking.	ff coming off the	railroad shoulders after	storm events. Indicators
E.			

VEGETATION	(Four Strata) -	Use scientific names	of plants.
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VEGETATION (Four Strata) – Use scientific har	nes or pr	arits.		Sampling Point: 1
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20' by 5')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Barrant of Barrianet Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
				That Are OBL, FACW, of FAC (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	0	= Total Cov		OBL species x 1 =
			_	FACW species x 2 =
50% of total cover:0	20% of	total cover	: 	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 20' by 5')				
1				FACU species x 4 =
				UPL species x 5 =
2				Column Totals: (A) (B)
3				(-)
4				Prevalence Index = B/A =
5.				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	·0r	
0	$\overline{}$			Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:0	20% of	total cover	:	
Herb Stratum (Plot size: 20' by 5')				¹ Indicators of hydric soil and wetland hydrology must
1. Paspalum bifidum	45	✓	FACW	be present, unless disturbed or problematic.
	25		FACW	
2. Pluchea camphorata				Definitions of Four Vegetation Strata:
3. Diodia virginiana	20		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Ludwigia glandulosa	10		OBL	more in diameter at breast height (DBH), regardless of
5. Mikania scandens	5		FACW	height.
	3			
6. Xanthium strumarium			<u>FAC</u>	Sapling/Shrub - Woody plants, excluding vines, less
7. Cyperus pseudovegetus	2		<u>FACW</u>	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Triadica sebifera	2		FAC	Harb. All barbasses (non-woods) plants generalises
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants loss than 5.25 K tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
12.	112			
		= Total Cov		
50% of total cover: <u>56</u>	20% of	total cover	: <u>22.4</u>	
Woody Vine Stratum (Plot size: 20' by 5'				
1				
2				
3				
4.				
5				Hydrophytic
	0	= Total Cov	/er	Vegetation
50% of total cover:0	20% of	total cover	: 0	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			

Sampling Point: 1

epth nches)	Matrix Color (moist)	%	Color (moist)	lox Featur %	es Type ¹	Loc ²	Texture		Remarks	
-3	10YR4/3	- / 00	Color (moist)		_ Type	LUC	loamy sand		Remarks	<u>-</u>
-7.5	7.5YR5/4		5YR4/4	_ _		- 	 -			-
-1.5	7.51R5/4	90		_ 5	_ <u>c</u>	<u>M</u>	sand			
			10YR4/2	_ <u>5</u>	_ <u>D</u>	<u>M</u>				
.5-10.5	10YR4/3	95	5YR4/4	_ 5	<u>C</u>	M&PL	loam			
0.5-15	10YR4/2	90	5YR4/4	10	С	M&PL	loam			
									· · · · · ·	<u> </u>
ydric Soil Histosol Histic E Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast P Sandy M	Indicators: (Appl (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR acky Mineral (A7) (I resence (A8) (LRR ack (A9) (LRR P, T d Below Dark Surfa ark Surface (A12) rairie Redox (A16) Mucky Mineral (S1) Bleyed Matrix (S4)	P, T, U) LRR P, T, U U) ace (A11)	Redox Dep Marl (F10) (Depleted O Iron-Manga M) Umbric Sur Delta Ochri Reduced Vo	erwise no delow Surf Surface (St ky Minera yed Matrix atrix (F3) a Surface (ark Surface ressions (I (LRR U) chric (F11 nese Mas face (F13) c (F17) (Mertic (F18)	(F6) (F6) (F6) (MLRA 1) (F6) (F6) (F6) (F6) (F6) (MLRA 1) (MLRA 1) (LRR P, 1)	LRR S, T, U T, U) R O) 51) (LRR O, P,	2 cm Mu Reduced Piedmor Anomald Red Par Very Sha Other (E T) 3Indical wetla unles	or Problem ck (A9) (Li ck (A10) (Li I Vertic (F1 t Floodplai cus Bright Li A 153B) ent Materia allow Dark explain in R ors of hydr	natic Hydric RR O) LRR S) 8) (outside in Soils (F19 Loamy Soils al (TF2) Surface (TF	MLRA 150A, () (LRR P, S, (F20) 12) etation and present,
_ Sandy F										
_ Stripped	Matrix (S6)	S. T. UI					A 149A, 153C, 1	53D)		
_ Stripped _ Dark Su	Matrix (S6) rface (S7) (LRR P,							53D)		
_ Stripped _ Dark Su estrictive	Matrix (S6)	l):	Anomalous					53D)		
_ Stripped _ Dark Su	Matrix (S6) rface (S7) (LRR P, Layer (if observed	l):	Anomalous						Yes	_ No <u></u>
_ Stripped _ Dark Su estrictive I Type: Depth (indemarks:	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		
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Stripped Dark Suestrictive In Type: Depth (incentaries:	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		
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Stripped Dark Su strictive I Type: Depth (independent)	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		
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Stripped Dark Su strictive I Type: Depth (independent)	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		
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Stripped Dark Su strictive I Type: Depth (independent)	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		
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Stripped Dark Su strictive I Type: Depth (indexing)	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		
Stripped Dark Su strictive I Type: Depth (indexing)	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		
Stripped Dark Su strictive I Type: Depth (independent)	Matrix (S6) rface (S7) (LRR P, Layer (if observed ches): he depleted so	l):	Anomalous	Bright Loa	amy Soils	(F20) (MLR	A 149A, 153C, 1	resent?		

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: IC Bridge Meador 113.07	city/County: near Ma	agee / Simpson	Sampling Date: 10/22/2024
Applicant/Owner: Illinois Central Railroad Company			Sampling Point: 2
		ange: S24 T10N R17W	
Landform (hillslope, terrace, etc.): Terrace	ocal relief (concave,	convex, none): None	Slope (%): <2%
Subregion (LRR or MLRA): P 133A Lat: 31.8201	118° `		Datum: NAD83
Soil Map Unit Name: Stough loam, 0 to 2 percent slopes (StA)		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of year			
Are Vegetation, Soil, or Hydrology significantly d			resent? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	olematic? (If n	eeded, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	sampling point	locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sample		
Hydric Soil Present? Wetland Hydrology Present? Yes No _✓ No _✓	within a Wetla	and? Yes	No
Remarks:			
Data point 2 is located in the southern end of the propose of the laydown areas located east of the tracks.	eu northeastern i	aydown area. This da	ata point is representative
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13))	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)		Drainage Pat	terns (B10)
Saturation (A3) Hydrogen Sulfide Od		Moss Trim Li	nes (B16)
Water Marks (B1) Oxidized Rhizospher		s (C3) Dry-Season \	Water Table (C2)
Sediment Deposits (B2) Presence of Reduced		Crayfish Burr	· · ·
Drift Deposits (B3) Recent Iron Reduction		Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (0	•	Geomorphic	' '
fron Deposits (B5) Other (Explain in Rer	marks)	Shallow Aqui	*
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inches):			
Water Table Present? Yes No Depth (inches):			
Saturation Present? Yes No ✓ Depth (inches): (includes capillary fringe)	W	etland Hydrology Presen	t? Yes No <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	, previous inspection	s), if available:	
Remarks:			
Remarks.			
			i

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20' by 10')		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:3(A)
2				Total Number of Dominant
3				Species Across All Strata:4 (B)
4				Bassant of Dominant Cassins
5				Percent of Dominant Species That Are OBL, FACW, or FAC:75% (A/B)
				That Are OBL, FACW, OF FAC.
6				Prevalence index worksheet:
7				Total % Cover of: Multiply by:
8				
	^	= Total Cov	er	OBL species x 1 =
50% of total cover: 0				FACW species x 2 =
I	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 20' by 10')		_		
1. Quercus nigra	3		<u>FAC</u>	FACU species x 4 =
2. Triadica sebifera	1	✓	FAC	UPL species x 5 =
				Column Totals: (A) (B)
3				
4,				Prevalence Index = B/A =
5,				Hydrophytic Vegetation Indicators:
6				
				1 - Rapid Test for Hydrophytic Vegetation
7.				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	4	= Total Cov	er er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2	20% of	total cover	0.8	- Froblematic Hydrophytic Vegetation (Explain)
	20% 0	total cover		
Herb Stratum (Plot size: 5' radius)				¹ Indicators of hydric soil and wetland hydrology must
Eupatorium capillifolium	60		<u>FACU</u>	be present, unless disturbed or problematic.
2. Triadica sebifera	35	✓	FAC	Definitions of Four Vegetation Strata:
3. Panicum dichotomiflorum	20		FACW	
715				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Solidago altissima	20		FACU	more in diameter at breast height (DBH), regardless of
5. Andropogon virginicus	5		<u>FAC</u>	height.
6. Ligustrum sinense	5		FAC	Sapling/Shrub – Woody plants, excluding vines, less
	- 5		FACW	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
200				interior in DDIT and greater than 0.20 it (1 in) tail.
8. Smilax rotundifolia	5		<u>FAC</u>	Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
- F20.				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12				
	155	= Total Cov	/er	
50% of total cover:77.5				
the second secon	20 /8 0	total cover		
Woody Vine Stratum (Plot size: 20' by 10')				
1				
2.				
3				
1 A				
4				
5.				Hydrophytic
		= Total Cov	/er	Hydrophytic Vegetation
5		= Total Cov		Vegetation
				Vegetation
5	0 20% of			Vegetation
5	0 20% of	f total cover	:0	Vegetation
5	0 20% of	f total cover	:0	Vegetation
5	0 20% of	f total cover	:0	Vegetation
5	0 20% of	f total cover	:0	Vegetation
5	0 20% of	f total cover	:0	Vegetation
5	0 20% of	f total cover	:0	Vegetation
5	0 20% of	f total cover	:0	Vegetation
5	0 20% of	f total cover	:0	Vegetation

Depth (inches)	Matrix Color (moist)	<u></u> %	Redo Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
0-6	10YR4/3	- - % -	COIOI (IIIOISI)		1 Abe		loam	roots in the top 3 inches
	10YR3/2	- 30 -					- Ioaiii	Tools in the top 5 inches
 i-12	10YR4/4	- 50 -		- ——			loam	
12	10YR4/3						- Ioani	
	10114/3	_ 50						
Type: C=C	oncentration, D≃De	pletion, RM=F	Reduced Matrix, Ma	S=Masked	Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
ydric Soil	ndicators: (Appli	cable to all L	RRs, unless othe	rwise note	ed.)		Indicators	for Problematic Hydric Soils ³ :
_ Histosol	• •		Polyvalue Be				-	Muck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
Black Hi	` '		Loamy Muck			O)		ced Vertic (F18) (outside MLRA 150A,
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Ma	•	-2)			nont Floodplain Soils (F19) (LRR P, S, T
	Bodies (A6) (LRR I	7 T II)	Redox Dark		6)			alous Bright Loamy Soils (F20) RA 153B)
	cky Mineral (A7) (L		Depleted Da					Parent Material (TF2)
	esence (A8) (LRR		Redox Depre					Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)	•			(Explain in Remarks)
Depleted	l Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick Da	rk Surface (A12)		Iron-Mangan				. T) ³ India	cators of hydrophytic vegetation and
	airie Redox (A16) (•				, U)		tland hydrology must be present,
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ess disturbed or problematic.
	leyed Matrix (S4)		Reduced Ver					
	edox (S5) Matrix (S6)		Piedmont Flo		, ,	•	19A) RA 149A, 153C	162D)
	face (S7) (LRR P,	S T III	Anomalous E	origin Loan	ny Sons (i	-20) (IVILA	A 149A, 153C	,, 1530)
	ayer (if observed)						T	
Type:								
• • • • • • • • • • • • • • • • • • • •	:hes):						Hydric Soil	Present? Yes No V
Remarks:	· · · · · · · · · · · · · · · · · · ·						1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
iorriarito.								

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: IC Bridge Meador 113.07	ity/County: near Magee	/ Simpson	Sampling Date: 10/22/2024
Applicant/Owner: Illinois Central Railroad Company			Sampling Point: 3
Investigator(s): Margaret Lee S			
Landform (hillslope, terrace, etc.):	ocal relief (concave, conve	ex. none); None	Slope (%): <2%
Subregion (LRR or MLRA): P 133A Lat: 31.8200)36° Long		Datum: NAD83
Soil Map Unit Name: Stough loam, 0 to 2 percent slopes (StA)	Long	NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of year			
Are Vegetation, Soil, or Hydrology significantly di			resent? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed	d, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	sampling point loca	tions, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	Is the Sampled Are within a Wetland?		No✓
Data point 3 was collected upgradient of bridge Meador 1 logging slash.	13.07. This plot is w	ithin a previously	logged area that contains
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)		Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) ((LRR U)	✓ Drainage Pat	terns (B10)
Saturation (A3) Hydrogen Sulfide Od	or (C1)	Moss Trim Li	nes (B16)
Water Marks (B1) Oxidized Rhizosphere	es along Living Roots (C3)) Dry-Season V	Vater Table (C2)
✓ Sediment Deposits (B2) Presence of Reduced	d Iron (C4)	Crayfish Burn	ows (C8)
Drift Deposits (B3) Recent Iron Reduction	on in Tilled Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C	C7)	Geomorphic I	Position (D2)
Iron Deposits (B5) Other (Explain in Rer	marks)	Shallow Aquit	tard (D3)
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)
Field Observations:			-
Surface Water Present? Yes No Depth (inches):			
Water Table Present? Yes No Depth (inches):	9-21/192		
Saturation Present? Yes No Depth (inches):		d Hydrology Present	t? Yes√_ No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	, previous inspections), if a	available:	
Remarks:	<u> </u>		
The observed hydrological indicators are mostly associate railroad shoulder.	ed with stormwater ru	inoff from upgrad	ient and from along the

W	FGFTA	TION /	Four Strata) -	. I lea eciantifi	c names of plants.
w			i vai viiatai -	- 036 3010111111	o namos or plants.

Sampling Point: 3

0011 001	170	Dominan		Dominance Test worksheet:
Tree Stratum (Plot size: 30' by 30')		Species'	-	Number of Dominant Species
1. Pinus taeda				That Are OBL, FACW, or FAC: 8 (A)
Liquidambar styraciflua	5		<u>FAC</u>	Total Number of Dominant
3. Quercus nigra	5		<u>FAC</u>	Species Across All Strata: 8 (B)
4				B
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6.				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
<u> </u>	22	= Total Co		OBL species x 1 =
50% of total cover:11				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30' by 30')	20 /6 0	total cove	'	FAC species x 3 =
1 to continue at a a a a	15	1	FAC	FACU species x 4 =
	5		FAC	UPL species x 5 =
2. Quercus nigra			FAC	Column Totals: (A) (B)
3. Magnolia grandiflora				(-)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	22	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 11				
Herb Stratum (Plot size: 10' by 5')	_		(A)	¹ Indicators of hydric soil and wetland hydrology must
Pluchea camphorata	60	1	FACW	be present, unless disturbed or problematic.
2. Ludwigia alternifolia	30		OBL	Definitions of Four Vegetation Strata:
3. Eupatorium serotinum	10		FAC	Dominions of Court of Status
Ludwigia glandulosa	5		OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
5				Thought.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine All woody vines greater than 3.28 ft in
11				height.
12				
	105	= Total Co	ver	
50% of total cover: 52.				
Woody Vine Stratum (Plot size: 30' by 30')				
1. Smilax laurifolia	3	1	FACW	
			171011	
2				
3				
4				
5				Hydrophytic
	•	= Total Co	over	Vegetation Present? Yes ✓ No
50% of total cover: <u>1.5</u>	20% o	f total cove	er: <u>0.6</u>	riesent? res_vNo
Remarks: (If observed, list morphological adaptations belo	w).			
				,

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirn	n the absence	of indicators.)
Depth	Matrix			x Feature	es			
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc²	<u>Texture</u>	Remarks
1-2	10YR5/3	65	10YR5/2	10	<u>D</u>	<u>M</u>	loamy sand	
	10YR6/3	. 22	75YR4/4	3	<u> </u>	PL		
2-5	7.5YR6/4	55	7.5YR4/6	15	С	M&PL	sand	
	10YR5/3	30						
5-7	7.5YR4/3	60	7.5YR4/6	40	C	M	loamy sand	redox in depositional bands
7-12	10YR4/3	65	7.5YR4/6	35	<u>C</u>	M	loam	
	1011(4/0		7.011(4/0		- —	141		
l 								
			Reduced Matrix, MS			ains.		PL=Pore Lining, M=Matrix.
1 -		able to all	LRRs, unless other		-			for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					Muck (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark Su Loamy Mucky					Muck (A10) (LRR S)
ı —	n Sulfide (A4)		Loamy Gleye			(0)		ced Vertic (F18) (outside MLRA 150A,B) nont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		(12)			alous Bright Loamy Soils (F20)
_	Bodies (A6) (LRR P	, T, U)	Redox Dark S	, ,	F6)			RA 153B)
1	ıcky Mineral (A7) (LF				•			arent Material (TF2)
Muck Pr	esence (A8) (LRR U)	Redox Depre		8)		Very S	Shallow Dark Surface (TF12)
5	ick (A9) (LRR P, T)		Marl (F10) (L				Other	(Explain in Remarks)
ı —	d Below Dark Surfac	e (A11)	Depleted Och				3	
	ark Surface (A12)	41 DA 450	Iron-Mangane					cators of hydrophytic vegetation and
	rairie Redox (A16) (I lucky Mineral (S1) (I		A) Umbric Surfa Delta Ochric	, ,		, 0)		tland hydrology must be present, ess disturbed or problematic.
	Gleyed Matrix (S4)	-KK O, 3)	Reduced Ver			OA. 150B)		ess disturbed of problematic.
-	tedox (S5)		Piedmont Flo		-			
	Matrix (S6)						A 149A, 153C	C, 153D)
Dark Sui	rface (S7) (LRR P, S	i, T, U)						·
Restrictive L	_ayer (if observed):							
Туре:								
Depth (inc	ches):						Hydric Soil	Present? Yes No _
Remarks:	though roday fo	oturon or	o present the m	otriv lo	oleo tho m		· doplotions	to mank any of the budgle sell
1	iteria.	atures ar	e present, the ma	auix iac	cks the r	lecessar	y depletions	s to meet any of the hydric soil
l Ci	nona.							
1								
]								

WETLAND DETERMINATION DATA FORM -- Atlantic and Gulf Coastal Plain Region

Project/Site: IC Bridge Meador 113.07 City/	County: near Magee /	Simpson	Sampling Date: 10/22/2024
Applicant/Owner: Illinois Central Railroad Company			Sampling Point: 4
Investigator(s): Margaret Lee Sec	tion, Township, Range: S	S24 T10N R17W	-
Landform (hillslope, terrace, etc.): Terrace Local	al relief (concave, convex,	, none): None	Slope (%): <2%
Subregion (LRR or MLRA): P 133A Lat: 31.819786	5° Long: _		
Soil Map Unit Name: Ruston fine sandy loam, 5 to 8 percent slopes,	, eroded (RuC2)	NWI classifica	ation: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significantly distu	ırbed? Are "Norma	al Circumstances" pr	resent? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed,	explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No	to the Constant Anna		
Hydric Soil Present? Yes No✓	Is the Sampled Area	V-2	/
Wetland Hydrology Present? Yes No✓	within a Wetland?	Yes	No
Remarks:			-
Data point 4 is located in the southwestern laydown area ar tracks.	id is representative o	of the laydown a	reas located west of the
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil C	
Surface Water (A1) Aquatic Fauna (B13)			etated Concave Surface (B8)
High Water Table (A2) — Marl Deposits (B15) (LF	DD 11/	Sparsely vege	
Naturation (A3) Hydrogen Sulfide Odor		Moss Trim Lin	
Water Marks (B1) — Oxidized Rhizospheres			Vater Table (C2)
Sediment Deposits (B2) Presence of Reduced In		Crayfish Burro	, ,
Drift Deposits (B3) Recent Iron Reduction i			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)		Geomorphic F	= : : :
Iron Deposits (B5) Other (Explain in Rema		Shallow Aquita	• •
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral T	Test (D5)
Water-Stained Leaves (B9)		Sphagnum mo	oss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inches):			
Water Table Present? Yes No Depth (inches):	1		
Saturation Present? Yes No Depth (inches): (includes capillary fringe)		Hydrology Present	? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if ava	ailable:	
Remarks:			
Terrains.			

VEGETATION (F	our Stratal - Hea	eciontific names	of plants
VEGETATION (FO	our Strata) – Use	Scientific names	o piants.

Sampling Point: 4

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' by 30')	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:4 ((A)
2				Total Number of Demisers	
3.				Total Number of Dominant Species Across All Strata: 5	(B)
				Openies Auross Air Girata.	(5)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:80%((A/B)
6				Prevalence Index worksheet:	
7					
8				Total % Cover of: Multiply by:	
	0	= Total Cov	/er	OBL species x 1 =	
50% of total cover: 0				FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30' by 30')	20,00.	total bovol		FAC species x 3 =	
	5	./	EAC	FACU species x 4 =	
Liquidambar styraciflua			FAC	UPL species x 5 =	
2. Ilex vomitoria	3		FAC_		
3				Column Totals: (A)	(0)
4				Prevalence Index = B/A =	
5					·
				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				✓ 2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.01	
	8	= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain))
50% of total cover:4	20% of	total cover	: <u>1.6</u>		,
Herb Stratum (Plot size: 5' radius)				11-disabase of hydric and suptlemed hydrology as	
1. Andropogon virginicus	45	✓	FAC	¹ Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.	JSI
	40		FAC		
2. Pinus taeda				Definitions of Four Vegetation Strata:	
3. Symphyotrichum pilosum			FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cr	n) or
4. Andropogon glomeratus	5		<u>FACW</u>	more in diameter at breast height (DBH), regardles	
5. Dichanthelium dichotomum	5		<u>FAC</u>	height.	
6. Eupatorium serotinum	3		FAC	Sapling/Shrub - Woody plants, excluding vines, le	- 000
7. Quercus nigra	3		FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.	000
8. Ambrosia trifida			FAC		
				Herb - All herbaceous (non-woody) plants, regard	less
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine - All woody vines greater than 3.28 ft	t in
11				height.	
12					
	110	= Total Cov	/er	1905-20	
50% of total cover:55					
	20 /0 01	total cover	·		
Woody Vine Stratum (Plot size: 30' by 30')	0	,	FACIL		
Lonicera japonica			FACU		
2					
3					
4					
5.				Madagakada	
J 0.		= Total Cov	·or	Hydrophytic Vegetation	
				Present? Yes _ \(\square\) No	
50% of total cover:1		f total cover	:		
Remarks: (If observed, list morphological adaptations belo	w).				
The area was previously logged. No plants wer	e found i	n the tree	stratum.		
, , , , ,					

SOIL Sampling Point: 4

Profile Descripti	ion: (Describe	to the depth	needed to docun	nent the i	indicator	or confirm	n the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10 10	YR5/3	70					loam			
10	YR4/3	30								
										
										-
										
17	otastian D-Dan		3-44-14-14-14				21	DI D. I		
			Reduced Matrix, MS			ains.			ining, M=Matri	
i -		able to all L	RRs, unless other		-				matic Hydric	Solls :
Histosol (A1)			Polyvalue Be				. —		•	
Histic Epiped	, ,		Thin Dark Su					luck (A10)		
Black Histic (Loamy Mucky			t O)				MLRA 150A,B)
Hydrogen Su			Loamy Gleye		F2)					(LRR P, S, T)
Stratified Lay			Depleted Mat						Loamy Soils (F20)
	ies (A6) (LRR F	-	Redox Dark S		•		•	A 153B)	===:	
	Mineral (A7) (LI		Depleted Dar					rent Mater		
l —	ice (A8) (LRR L	J)	Redox Depre	•	8)				Surface (TF1	2)
l	A9) (LRR P, T)		Marl (F10) (L				Other (Explain in l	Remarks)	
	ow Dark Surfac	e (A11)	Depleted Och				3			
Thick Dark S			Iron-Mangane					-	drophytic vege	
ı —	Redox (A16) (,	_		•	, U)		•	ogy must be p	·
l	Mineral (S1) (LRR O, S)	Delta Ochric		-			ss disturbe	ed or problema	tic.
l	d Matrix (S4)		Reduced Ver		-	•				
Sandy Redox			Piedmont Flo							
Stripped Mat			Anomalous B	right Loar	my Soils (F20) (MLR	A 149A, 153C,	153D)		
	(S7) (LRR P, S	•					-			
Restrictive Laye	r (if observed)	:								
Туре:	·· <u></u>									
Depth (inches):						Hydric Soil	Present?	Yes	No <u> </u>
Remarks:							1			