Tony Evers, Governor Karen Hyun, Ph.D., Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



5/6/2025

Tom Vils 10086 County Rd Y Mazomanie, WI 53560 WIC-SC-2025-13-00402

RE: Wetland Identification Report for Project Review Area, located in SE 1/4, SE 1/4, Section 22, Township 09 North, Range 06 E, Village of Mazomanie, Dane County

Dear Tom Vils:

On 4/24/2025, Kara Brooks conducted a wetland identification review at the above mentioned property. According to the request form you sent us, the reason for the wetland identification was to identify any wetlands located in the project area in which you are hoping to build a single family residence and also to evaluate the 75ft buffer from the home building site in order to ensure you are not impacting wetlands within the county enforced wetland setback area.

Approximate wetland boundaries were identified following 1987 Wetland Delineation Manual and applicable regional supplement guidelines. Wetlands are defined by the 1987 Wetland Delineation Manual as areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. If any wetland areas were detected, their approximate boundaries were sketched onto an aerial photograph (see attached map).

Methods used to detect the presence of wetlands within the project area involved on-site and off-site techniques, including a review of antecedent hydrologic conditions, recent aerial photography, Wisconsin Wetland Inventory (WWI) mapping, NRCS Soil Survey mapping, LiDAR and contour mapping, and on-site observations.

Based on the data analyzed for the off-site review, as well as the field conditions observed during the field review, wetlands are not located in the project review area. See enclosed mapping for review area.

Prior to conducting any activities in or around wetlands, we recommend you contact the appropriate staff from DNR Waterways Program, the U.S. Army Corps of Engineers, which may require a federal permit to work in wetlands, and relevant local government zoning authorities to ensure your project meets local floodplain and shoreland zoning ordinance requirements.

If you have any questions, please email me at kara.brooks@wisconsin.gov.

Sincerely,

Kara Brooks Wetland Identification Specialist

Enclosed: WNDR Wetland Identification Program Field Map WWI Mapping 2-foot Contour Mapping LiDAR Mapping NRCS Hydric Soils and WDNR "Maximum Extent" Indicators Representative Site Photographs USACE Wetland Determination Data Forms

WDNR Wetland ID Program Field Map



4/25/2025, 9:43:35 AM







Wisconsin Wetland Inventory



4/25/2025, 9:46:41 AM

	DOA Statewide Parcel Map Database Project	Major Roads	County and Local Roads
Point I	ayer		County HWY
•	Upland	County Boundaries	Local Road
0	Photo Point	, Municipal Boundary	EN_Image_Basemap_Leaf_Off
Polygo	on layer		Red: Band_1
	Review Area Boundary		Green: Band_2
	Wisconsin Wetland Inventory Polygon Layer (stereo-pair mapping) - Wetland Class Areas	County Boundaries	Blue: Band_3

1:2,526 0 0.02 0.04 0.09 mi 1 0 0.04 0.07 0.14 km



2-foot Contour Map



4/25/2025, 9:43:02 AM







Wisconsin Wetland Inventory Viewer Map



Hydric Soil and Maximum Extent Indicators



4/25/2025, 9:47:59 AM

















Photo taken at Photo Point (PP) #2. Photo facing north.



U.S. Army C WETLAND DETERMINATION DATA S See ERDC/EL TR-12-1; the	Corps of Engineers CHEET – Northcentral and proponent agency is CE	d Northeast Region ECW-CO-R	OMB Control #: Requirement ((Authority: AR	0710-0024, Exp: 9/30/2027 Control Symbol EXEMPT: 2 335-15, paragraph 5-2a)
Project/Site: Tom Vils Property Applicant/Owner: Tom Vils Investigator(s): WDNR- Kara Brooks		City/County: Village of Ma	azomanie, Dane State: WI	Sampling Date: <u>4/24/2025</u> Sampling Point: <u>1</u>
Londform (hilloide terrose etc.):			np, Nange. <u>Occ Ma</u>	
Cubragian (LDD an MLDA): LDD K	LUCALI		lie). <u>none</u>	
	Lat:	Long:		
Soil Map Unit Name: See Map			NVVI classification:	See Map
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes <u>x</u>	No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrole	ogysignificantly distur	bed? Are "Normal C	Circumstances" pres	ent? Yes x No
Are Vegetation, Soil, or Hydrole	ogynaturally problema	tic? (If needed, exp	plain any answers ir	n Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ns, transects, ir	nportant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes NoX Yes NoX Yes NoX	Is the Sampled Area within a Wetland? If yes, optional Wetland	Yes	No <u>X</u>
Precipitation analysis is normal for this time o normal.	f year. 30 days prior to site vi	sit was wetter than normal	I. 60 & 90 days prio	r to site visiter were drier than
HYDROLOGY				
Wetland Hydrology Indicators:		Sec	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Crack	s (B6)
High Water Table (A2)	Water-Stained Leaves (E		Drainage Patterns	(B10) 816)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
Water Marks (B1)	Hvdrogen Sulfide Odor (C1)	Cravfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres of	on Living Roots (C3)	Saturation Visible	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Irc	on (C4)	Stunted or Stresse	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positi	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (I	D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remark	ks)	Microtopographic F	Relief (D4)
Sparsely Vegetated Concave Surface (B8	3)		FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):	Wetler d l b		Yee No Y
(includes capillary fringe)	MO x Depth (inches).	Wetland Hy	drology Present?	
Describe Recorded Data (stream dauge mor	itoring well aerial photos pre	vious inspections) if avai	lable:	
Domorkov				
Remarks: Hydrology indicator were not present.				

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VEGETATION – Use scientific names of plants.

Sampling Point:

1

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30' Radius</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	10	Yes	FACW	Number of Dominant Species
2. Acer saccharum	10	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
 <u>Rhamnus cathartica</u> 4. 	10	Yes	FAC	Total Number of Dominant Species Across All Strata: 8 (B)
5.				()
6.				That Are OBL, FACW, or FAC: <u>37.5%</u> (A/B)
7				Prevalence Index worksheet:
	30	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' Radius)				OBL species 0 x 1 = 0
1. Rhamnus cathartica	30	Yes	FAC	FACW species 10 $x 2 = 20$
2.				FAC species 40 x 3 = 120
3.		·		FACU species 25 x 4 = 100
4.				UPL species 10 x 5 = 50
5.		·		Column Totals: 85 (A) 290 (B)
6		·	·	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7			·	Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' Radius)				2 - Dominance Test is >50%
1. Alliaria petiolata	10	Yes	FACU	$3 - Prevalence Index is \leq 30^{1}$
2. Lonicera tatarica	5	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Daucus carota	5	Yes	UPI	data in Remarks or on a separate sheet)
4. Carex pensylvanica	5	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8		·		Tree – Woody plants 3 in. (7.6 cm) or more in
9		·		diameter at breast height (DBH), regardless of height.
11.		·		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.		·		
	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' Radius)				
, ,				height.
2.				
3.		·		Hydrophytic
4.				Present? Yes No X
		=Total Cover		

Depth	Matrix	to the dep	Redo	x Featu	res				ators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rema	rks
0-21	10YR 2/1	100					Loamy/Clayey	<u> </u>	Coarse san	idy loam
21-28	10YR 5/3	100					Sandy		Coarse	sand
		_								
		_								
	·									
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Locatio	on: PL=Pore	e Lining, M=Ma	atrix.
Histosol Histic E Black H Hydroge Stratified Depleted Thick Da Mesic S (MLR Iron Mor Sandy M	I (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) podic (A17) RA 144A, 145, 149B) nosulfide (A18) Mucky Mineral (S1)	e (A11)	Dark Surface (Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depres	S7) w Surfa) ace (S9 Sands (S Mineral Matrix (x (F3) urface (F Surface sions (F	ice (S8) () (LRR R S11) (LRI (F1) (LR (F2) =6) = (F7) 8)	LRR R, , MLRA [,] R K, L) R K, L)	149B)2 c 5 c Pol Thi Pie Rei Oth	m Muck (A1) m Mucky Pe yvalue Belov n Dark Surfa n-Manganes dmont Flood d Parent Ma y Shallow D her (Explain i	0) (LRR K, L, at or Peat (S3) w Surface (S8) ace (S9) (LRR e Masses (F12 dplain Soils (F ⁻ terial (F21) (o t ark Surface (F in Remarks)	MLRA 149B)) (LRR K, L, R)) (LRR K, L) (LRR K, L, R) 2) (LRR K, L, R) 19) (MLRA 149B) utside MLRA 145 22)
Sandy R	Redox (S5) Matrix (S6)		Red Parent Ma	aterial (F	F21) (MLI	RA 145)	-	wetland hy unless dist	drology must b urbed or proble	egetation and be present, ematic.
Restrictive Type: Depth (i	Layer (if observed):						Hydric Soil P	resent?	Yes	NoX

U.S. Army C WETLAND DETERMINATION DATA S See ERDC/EL TR-12-1; the	orps of Engineers HEET – Northcentral and proponent agency is CE	d Northeast Region ECW-CO-R	OMB Control #: Requirement C (Authority: AR	0710-0024, Exp: 9/30/2027 Control Symbol EXEMPT: 335-15, paragraph 5-2a)
Project/Site: Tom Vils Property		City/County: Village of M	azomanie, Dane	Sampling Date: 4/24/2025
Applicant/Owner: Tom Vils			State: WI	Sampling Point: 2
Investigator(s): WDNR- Kara Brooks		Section, Townsh	nip, Range: <u>See Map</u>)
Landform (hillside, terrace, etc.): side slope	Local r	elief (concave, convex, no	one): none	Slope %: 2-5
Subregion (LRR or MLRA): LRR K	Lat:	Long:		Datum:
Soil Map Unit Name: See Map			NWI classification:	See Map
Are climatic / hydrologic conditions on the site t	vpical for this time of year?	Yes x	- No (lf no.	explain in Remarks.)
Are Vegetation , Soil , or Hydrold	agy significantly distur	bed? Are "Normal C	Circumstances" prese	ent? Yes x No
Are Vegetation . Soil . or Hydrold	ay naturally problema	tic? (If needed, ex	plain any answers in	Remarks.)
SUMMARY OF FINDINGS Attach s	vito man showing sam	nling point location	s transacts in	nortant fosturos, oto
SOMMART OF FINDINGS - Attach s	site map showing sam		15, transects, in	
Hydrophytic Vegetation Present?	res <u>No X</u>	Is the Sampled Area		
Hydric Soil Present?	res No X	within a Wetland?	Yes	No <u>X</u>
Wetland Hydrology Present?	res No X	If yes, optional Wetland	d Site ID:	
HYDROLOGY				
		So/	andary Indiantara (r	ninimum of two required)
Primary Indicators (minimum of one is require	d: check all that apply)	<u></u>	Surface Soil Cracks	s (B6)
Surface Water (A1)	Water-Stained Leaves (E	39)	Drainage Patterns ((B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	516)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	C8)
Sediment Deposits (B2)	Oxidized Rhizospheres of	on Living Roots (C3)	Saturation Visible o	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Irc	on (C4)	Stunted or Stressed	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positio	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (L	D3) Poliof (D4)
Sparsely Vegetated Concave Surface (B8			FAC-Neutral Test (D5)
Field Observations:)			207
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes	No x Depth (inches):			
Saturation Present? Yes	No x Depth (inches):	Wetland Hy	/drology Present?	Yes No X
(includes capillary fringe)				
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	evious inspections), if avai	ilable:	
Remarks: Hydrology indicator were not present.				

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VEGETATION – Use scientific names of plants.

Sampling Point: 2

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30' Radius)	% Cover	Species?	Status	Dominance Test worksheet:
1. rhamnus cathartica	15	Yes	FAC	Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5.				Demonst of Dominant Coopies
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' Radius)				OBL species 0 x 1 = 0
1. Lonicera tatarica	15	Yes	FACU	FACW species 5 x 2 = 10
2. rhamnus cathartica	7	Yes	FAC	FAC species x 3 =66
3				FACU species 45 x 4 =180
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 72 (A) 256 (B)
6.				Prevalence Index = B/A = 3.56
7.				Hydrophytic Vegetation Indicators:
	22	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' Radius)				2 - Dominance Test is >50%
1. Alliaria petiolata	25	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Lonicera tatarica	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supportin
3. Laportea canadensis	5	No	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	35	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' Radius)				Woody vines – All woody vines greater than 3.28 ft ir
1				height.
2				
3				Hydrophytic Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
20% cover of dead Fraxinus Penn				

Color (moist) % Color (moist) % Type Loc ^T Texture Remarks 0-21 10YR 5/3 100	Color (moist) % Color (moist) % Type Loc ^T Texture Remarks 0-21 10YR 2/1 100	Depth	Matrix		Redo	x Featu	res				,	
0-21 10YR 2/1 100	0-21 10YR 2/1 100	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rema	ırks
21-28 10YR 5/3 100 Sandy Coarse sand 21-28 10YR 5/3 100 Sandy Sandy Sandy 21-28 20 Matrix Sandy Sandy Sandy Sandy 21-28 20 Muck A1498 Sandy Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F2) Polyvalue Balow Dark Surface (F2) Other (Explain in Remarks) 2 100 Sandy Gleyed Matrix (S4) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F2) Polyvalue Balow Sands (F1) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F2) Polyeed Matrix (F2)	21-28 10YR 5/3 100 Sandy Coarse sand 21-28 21-28 Sandy Coarse sand Sandy Coarse sand 21-28 21-28 21-28 Sandy Coarse sand Sandy	0-21	10YR 2/1	100					Loamy/Claye	y	Coarse sar	ndy loam
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, MLRA 149B) Black Histic (A3) MLRA 149B) Thin Dark Surface (S1) (LRR K, L) Polyvalue Below Surface (S3) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Solis (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 147 Mesic Spodic (A17) Depleted Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Medva (S5) Red Parent Material (F21) (MLRA 145) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Dark Surface (S7) Black Histic (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S1) Loamy Mucky Mineral (S1) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) Iron Monosulfide (A18) Depleted Dark Surface (F6) Sandy Mecky Meral (S1) Redox Dark Surface (F7) Sandy Mecky (S5) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Shripped Matrix (S6) Matri (F10) (LRR K, L) Type:	21-28	10YR 5/3	100					Sandy		Coarse	sand
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Tho Mons Winface (S1) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Stratified Layer (I6 Observed): Trip: Type: Depleted Matrix (S6)	Image: Section in the section is the section in the section is the sectin the sectin the sectin the sectin texperimeneis is t			·		_						
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Suffide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Dark Surface (F6) (MLRA 1445, 145, 149B) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Matri (F10) (LRR K, L) Sandy Gleyed Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Deplete(S0) Depth (inches): Hydric Soil Present? Yes	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Red Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Depth (inches): Parent Material (F21) (MLRA 145) Remarks: Hydric Soil Present?			·			·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F2) Mesic Spodic (A17) Depleted Matrix (F2) Mesic Spodic (A17) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Matri (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Mexic Spodic (A17) Depleted Matrix (F2) Mexic Spodic (A17) Depleted Matrix (F3) MuRA 1445, 149B) Redox Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Sandy Gleyed Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Red Parent Material (F21) (MLRA 145) Type: Depth (inches): No _X Remarks: Hydric Soil Present? Yes			·			·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, 5 cm Mucky Peat or Peat (S3) (LRR K, L, F Black Histic (A3) MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L, I Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 145 Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Matrix (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) alindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 1435 Mesic Spodic (A17) Depleted Matrix (F2) Red Parent Material (F21) (outside MLRA 145 Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (outside MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Peipt (inches): No X Remarks: Hydric Soil Present? Yes No X						·					
Indicators Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histos Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 149B) Red Parent Material (F21) (outside MLRA 145, 149B) Iron Monosulfide (A18) Depleted Dark Surface (F7) Redox Depressions (F8) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes	Histosol (A1)	¹ Type: C=Co	oncentration, D=Dep	letion, RN	I=Reduced Matrix, I	MS=Mas	sked San	d Grains.	² Locati	ion: PL=Pore	Lining, M=M	atrix.
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Mesic Spodic (A17) Depleted Matrix (F3) Iron Monosulfide (A18) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depth (inches):	Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Bolyvalue Below Surface (S8) (LRR R, Polyvalue Below Surface (S8) (LRR K, L, Formal Surface (S9) (LRR K, L) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F3) Mesic Spodic (A17) Depleted Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) (MLRA 1445) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1445) Restrictive Layer (if observed): Type: Type:	Histosol	(A1)		Dark Surface (S7)			2 (cm Muck (A10) (LRR K, L,	MLRA 149B)
Black Histic (A3) MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 145 Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) alndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Black Histic (A3) MLRA 149B) Polyvalue Below Surface (S8) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149E) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA ' Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Histic Ep	pipedon (A2)		Polyvalue Belo	w Surfa	ace (S8) (LRR R,	50	cm Mucky Pea	at or Peat (S3	3) (LRR K, L, R)
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 145 Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes No X	Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 149 Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Black Hi	stic (A3)		MLRA 149B	5)			Po	lyvalue Belov	v Surface (S8) (LRR K, L)
Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 145 Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Hydric Soil Present? Yes NoX	Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, I Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No Remarks: Very Soil Present?	Hydroge	n Sulfide (A4)		Thin Dark Surf	ace (SS) (LRR R	, MLRA	149B) Th	in Dark Surfa	ce (S9) (LRR	K, L)
Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 145 Mesic Spodic (A17) Depleted Matrix (F3) Red Parent Material (F21) (outside MLRA 145 (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Stratified	I Layers (A5)		High Chroma	Sands (S11) (LR	R K, L)	Iro	n-Manganese	Masses (F1	2) (LRR K, L, R)
Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Yes	Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA ' Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Depth (inches): Pethod (inches): Merent Ks: Yes	Depleted	Below Dark Surfac	e (A11)	Loamy Mucky	Mineral	(F1) (LR	R K, L)	Pie	edmont Flood	plain Soils (F	19) (MLRA 149 E
Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Yes	Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Thick Da	ark Surface (A12)		Loamy Gleyed	Matrix	(F2)		Re	ed Parent Mat	erial (F21) (o	utside MLRA 14
(MLRA 144A, 145, 149B)	(MLRA 144A, 145, 149B)	Mesic S	podic (A17)		Depleted Matr	ix (F3)			Ve	ery Shallow Da	ark Surface (F	-22)
Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches):	Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X Remarks: Kemarks: Kemarks: Kemarks: Kemarks:	(MLR	A 144A, 145, 149B)		Redox Dark S	urface (I	F6)		Ot	her (Explain i	n Remarks)	
Sandy Mucky Mineral (S1)	Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X	Iron Mor	osulfide (A18)		Depleted Dark	Surface	e (F7)					
Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X	Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: No X Depth (inches): Yes No X	Sandy N	lucky Mineral (S1)		Redox Depres	sions (F	-8)			-		
Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) unless disturbed or problematic. Restrictive Layer (if observed):	Sandy Redox (S5)Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX Remarks:	Sandy G	leyed Matrix (S4)		Marl (F10) (LR	R K, L)				Indicators of	hydrophytic v	egetation and
Stripped Matrix (S6) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX	Stripped Matrix (S6) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes NoX Remarks: Ves NoX	Sandy R	edox (S5)		Red Parent Ma	aterial (F	=21) (ML I	RA 145)		wetland hyd	drology must	be present,
Restrictive Layer (if observed): Type: Type:	Restrictive Layer (if observed): Type: Hydric Soil Present? Yes No X Depth (inches):	Stripped	Matrix (S6)						•	unless distu	urbed or probl	ematic.
Type:	I ype:	Restrictive I	_ayer (if observed):									
	Remarks: Hydric Soil Present? Yes No	Type:							Ukudaia Cail I		Vee	Na V
	Remarks:	Depth (Ir	icnes):						Hydric Soll I	Present?	res	<u>NO X</u>

U.S. Army Corps of Engine WETLAND DETERMINATION DATA SHEET – Northce See ERDC/EL TR-12-1; the proponent ager	eers entral and Northeast Region ncy is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Tom Vils Property	City/County: Village of	Mazomanie, Dane Sampling Date: 4/24/2025
Applicant/Owner: Tom Vils		State: WI Sampling Point: 3
Investigator(s): WDNR- Kara Brooks	Section, Town	ship. Range: See Map
Landform (hillside terrace etc.): side slope		none): none Slone %: 3-6
Subregion (LRR or MLRA): LRR K Lat:	Long:	Datum:
Soil Map Unit Name: See Map		NWI classification: See Map
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 significa	ntly 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 show	ing sampling point locatio	ons transects important features etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	a
Hydric Soil Present? Yes No	within a Wetland?	Yes <u>No X</u>
Wetland Hydrology Present? Yes No 2	If yes, optional Wetla	Ind Site ID:
Precipitation analysis is normal for this time of year. 30 days pric normal. Sample point taken adjacent to mowed path.	r to site visit was wetter than norn	nal. 60 & 90 days prior to site visiter were drier than
HYDROLOGY		
Wetland Hydrology Indicators:	<u>S</u>	secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	ply)	Surface Soil Cracks (B6)
Surface Water (A1)Water-Stained	Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna	(B13)	Moss Trim Lines (B16)
Saturation (A3) Mari Deposits	(B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sult	Ide Udor (C1)	Crayfish Burrows (C8)
Drift Deposits (B3)	educed Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron R	eduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	face (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain	in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	_	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No x Depth	(inches):	
Water Table Present? Yes No x Depth	(inches):	
Saturation Present? Yes No x Deptr	(inches): Wetland	Hydrology Present? Yes No \times
(includes capillary ininge) Describe Recorded Data (stream dauge, monitoring well, aerial r	hotos previous inspections) if a	vailable:
Remarks:		
Hydrology indicator were not present.		

VEGETATION – Use scientific names of plants.

Sampling Point: 3

	Absolute	Dominant	Indicator	Deminence Testandalast
Tree Stratum (Plot size: 30' Radius)	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	10	Yes	FACW	Number of Dominant Species
2. Acer saccharum	5	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' Radius)				OBL species 0 x 1 = 0
1. Lonicera tatarica	10	Yes	FACU	FACW species $13 \times 2 = 26$
2. rhamnus cathartica	10	Yes	FAC	FAC species $25 \times 3 = 75$
3				EACU species $60 \times 4 = 240$
4				$\frac{1100}{100} = \frac{100}{100} =$
۶				Column Tatala: 103 (A) 266 (D)
5				Column Totals. 103 (A) <u>366</u> (B)
6.				Prevalence Index = B/A = 3.55
7				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: <u>5' Radius</u>)				2 - Dominance Test is >50%
1. Glechoma hederacea	30	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Rubus idaeus	15	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Alliaria petiolata	10	No	FACU	data in Remarks or on a separate sheet)
4. Acer saccharum	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Carex pensylvanica	5	No	UPL	¹ Indicators of hydric soil and wetland hydrology must
6. Laportea canadensis	3	No	FACW	be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9				diameter at breast beight (DBH), regardless of beight
10				
11				Sapling/shrub – Woody plants less than 3 in. DBH
10				
12.				Herb – All herbaceous (non-woody) plants, regardless
	68	= I otal Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' Radius)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			·
20% cover of dead Fraxinus Penn				

Color (moist) % Type ¹ Loc ² Texture Remarks 0-26 10YR 2/1 100	Color (moist) % Color (moist) % Type Loc ⁷ Texture Remarks 0-26 10YR 2/1 100	Depth	Matrix		Redo	x Featu	res			· · · · · · · · · · · · · · · · · · ·	
0-26 10YR 2/1 100 Loamy/Clayey Loamy sand 26-36 10YR 5/3 100 Sandy Sandy Sandy 26-37 Sandy Sandy Sandy Sandy Sandy 26-37 Sandy Sandy Sandy Sandy Sandy Sandy 26-38 Indicators Indicators Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ : Sandy Mck (10) (LRR K, L) Polyatue Below Surface (S9) (LRR R, L) Polyatue Below Surface (S9) (LRR K, L) Po	0-26 10YR 2/1 100 Loamy/Clayey Loamy sand 26:36 10YR 5/3 100 Sandy Sand 26:36 10YR 5/3 100 Sandy Sandy 26:36 10YR 5/3 100 Sandy Sandy 26:36 10YR 5/3 100 Sandy Sandy 26:37 100 Sandy Sandy Sandy 26:38 10YR 5/3 100 Sandy Sandy 26:39 20 Sandy Sandy Sandy 20:30 20 20 Sandy Sandy 20:30 20 20 Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S2) 20:30 20 20 Muck Altrix (F3) Polyvalue Below Surface (S3) Polyvalue Below Surface (S3) (LRR K, L) 20:31 20 20 Muck Altrabe (S2) 20 Muck Altrabe (S2) 20:31 20 20 20 20 20 20 20:31 20 20 20 20	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
26-36 10YR 5/3 100	26-36 10YR 5/3 100	0-26	10YR 2/1	100					Loamy/Clayey	Loamy	sand
Image: Stratige Standy States (S1) Image: Standy States (S2) Image: Standy States (S2) Image: State States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: States (S2) Image: St	Image: Spoil (A17) Dark Surface (S7) Sandy Redx (A13) High: Charles (A11) Dark Surface (S9) (LRR R, IL) Thin Dark Surface (S9) (LRR R, L) Black Histic (A3) MLRA 149B) Solution: Pluston (Charles (Charle	26-36	10YR 5/3	100					Sandy	Sar	nd
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ?Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 1498) Hydriger Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 1498) Stratified Layers (A5) High Chroma Sands (S11) (LR K, L) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) McRA VatAes (F6) Othic (Explain in Remarks) Iron Monsulfide (A18) Depleted Dark Surface (F7) Sandy Rodox (S5) Red Parent Material (F21) (MLRA 145) Sandy Rodox (S5) Red Parent Material (F21) (MLRA 145) Sandy Rodox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Matrix (F10) (LRR K, L) Restrictive Layer (if observed): Type: Type: Depleted Dark Surface (F7) Sandy Rodox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Matrix (F2) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depleted Dark Surface (F7) Shorty Rodox (S5) Red Parent Material (F21) (MLRA 145) <t< td=""><td>Image: Solid Content and the second secon</td><td></td><td></td><td>· ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Image: Solid Content and the second secon			· ·							
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Spipedon (A2) Polyvalue Below Surface (S8) (LRR R, Back H39B) Histic Epipedon Suffide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) Mesic Spodic (A17) Depleted Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Redox (S5) Red Parent Material (F21) (MLRA K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Matri (F10) (LRR K, L) Stripped Matrix (S6) Matri (F10) (LRR K, L) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) <td>¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils¹: Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 1498) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 1498) Stattlifed Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Torno Monsulfide (A17) Depleted Dark Surface (F6) (MLRA 144A, 145, 149B) Redox Dark Surface (F7) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S4) Mart (F10) (LRR K, L) Depleted (To beerved): Type: Type: Depleted Sand Sands (F2) Depleted (F2) Hydric Soil Present? Yes No X</td> <td></td>	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 1498) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 1498) Stattlifed Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Torno Monsulfide (A17) Depleted Dark Surface (F6) (MLRA 144A, 145, 149B) Redox Dark Surface (F7) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S4) Mart (F10) (LRR K, L) Depleted (To beerved): Type: Type: Depleted Sand Sands (F2) Depleted (F2) Hydric Soil Present? Yes No X										
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Histic K(A3) MLRA 149B) 5 cm Muck (Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA L) Mesic Spodic (A17) Depleted Matrix (F2) Red Parent Material (F21) (outside MLRA Mesic Spodic (A17) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Cleyed Matrix (S4) Sandy Gleyed Matrix (S4) Matri (F10) (LRR K, L) 3 ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed): Type: Piet Matrix (S5) No X Remarks: Hydric Soil Present? Yes No X	Image: space of the system										
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Polytalue Below Surface (S9) (LRR K, L) Ion-Manganese Masses (F12) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F12) (MLRA 149B) Thin Chark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 149B) Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Medox (S5) Red Parent Material (F21) (MLRA 1445) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Parent Material (F21) (MLRA 1445) No X Remarks: Kemarks: High Coll Present? Yes No X	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 1498) Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (LRR K, L, MLRA 1498) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L, L) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 1498) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 1498) Mesic Spodic (A17) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: High Chromesi High Chromesi No _X Remarks: Hydric Soil Present? Yes			· ·							
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) (MLRA 144A, 145, 149B) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (outside MLRA Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Type: Depleted Dark Surface (F7) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Plepth (inches): Type:	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Mesic Spodic (A17) Depleted Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No_X										
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7)	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Black Histic (A3) MLRA 149B) Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Mesic Spodic (A17) Depleted Matrix (F2) (MLRA 1445, 145) Redox Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (MLRA 145) Sandy Mextor (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) Restrictive Layer (if observed): Type: Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 14 Mesic Spodic (A17) Depleted Matrix (F2) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Red Parent Material (F21) (outside MLRA Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) alndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, Black Histic (A3) MLRA 149B) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) High Chroma Sands (S11) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, Peldend Matrix (F2) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Red Parent Material (F1) (LRR K, L) Mesic Spodic (A17) Depleted Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Pelpt (inches): Yes No X Remarks: Metrix (S6) Hydric Soil Present? Yes No X			· ·							
Hydric Soli Indicators:	Hydric Soil Indicators:	¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	MS=Mas	sked San	d Grains.	² Location: PL=	Pore Lining, M=M	atrix.
		Hydric Soil	Indicators:		Dark Surface	(07)			Indicators for I	Problematic Hyd	ric Soils":
	Insite Epipedon (N2)		(AI) ninodon (A2)	•		(37)) (S8)		2 cm Muck	(ATO) (LKK K, L,	
		Black Hi	(A2)	•			ice (30) (5 cm Mucky	Pear of Fear (3.	$(\mathbf{L}\mathbf{R}\mathbf{R},\mathbf{L},\mathbf{L},\mathbf{L})$
			Suc (A3)		Thin Dark Sur) faco (50		MIDA	140B) Thin Dark S	Surface (SO) (I PP	
Stratilied Layers (AS) Ingli Chronia Santos (STr) (LRK K, L) Indi-Indiaganese Masses (F12) (LRK K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 14 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA 14 Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Remarks: Depth (inches): Hydric Soil Present? Yes No X		Hydroge	d Lavors (A5)	•	High Chroma	ace (39 Sanda (9) (LKK K S11) /I DI		Iton Manga	noso Massos (E1	2) (IDD K I
Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LKR K, L) Predmont Produptant Solis (F19) (MLRA F1 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Depleted Below Dark Sunace (A11) Loamy Gleyed Matrix (F1) (LKK K, L) Predmont Produptant Solis (P19) (MLKA 14 Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Red Parent Material (F21) (outside MLRA Mesic Spodic (A17) Depleted Matrix (F3) Very Shallow Dark Surface (F22) (MLRA 144A, 145, 149B) Redox Dark Surface (F6) Other (Explain in Remarks) Iron Monosulfide (A18) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Stratilied	d Layers (Ab)	. (. 1 1)		Sanus (a	511) (LR) (LR)	к к , L)	IIOn-Manga		2) (LRR R, L,
			u Below Dark Sullace	e (ATT)		Motrix	(F1) (LK (F2)	K N, L)	Pleamont F	Motorial (F21) (a	
Mesic Spoulc (AT7)	Mesic Spoulc (AT7)		ark Surrace (A12)		Loamy Gleyed	i Matrix ((FZ)		Red Parent	Waterial (F21) (0	
Iron Monosulfide (A18) Depleted Dark Surface (F6) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Iron Monosulfide (A18) Depleted Dark Surface (F6) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Marl (F10) (LRR K, L) Sandy Redox (S5) Red Parent Material (F21) (MLRA 145) Stripped Matrix (S6) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X Remarks: No X				Depleted Math	IX (F3)	-0)		Very Shallo		-22)
Extrictive Layer (if observed): Type: Depth (inches): Zendy (A18) Depted Dark Surface (F7) Redox Depressions (F8) Redox Depressions (F8) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Marl (F10) Hydric Soil Present? Yes_ No X	Informition/sublidie (A18)		(A 144A, 143, 149D)				-0) - (F7)			am in Remarks)	
Sandy Mucky Milleral (S1)	Sandy Mucky Mineral (S1)	Iron Mor	Nosullide (A18)		Depleted Dark	Surface	e (F7)				
Sandy Gleyed Matrix (S4) Main (F10) (LKK K, L) Indicators of Hydrophytic Vegetation and the second sec	Sandy Gleyed Matrix (S4)	Sandy IV	Nucky Mineral (ST)		Mod (E10) (LB		0)		³ Indiantor	a of hydrophytic y	ogatation and
Sandy Redux (S5)	Sandy Redux (S3)	Sandy B		•	Mail (F10) (LR	The starial (E	24) /M L	DA 146)	muicator		be present
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _X Remarks: Yes No _X	Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Remarks:	Sandy R	(S5) Matrix (S6)	•	Red Parent Ma	ateriai (F	-21) (IVILI	RA 145)	unless	d nyarology must disturbed or probl	be present, lematic.
Type:	Type:	Restrictive	Laver (if observed):								
Depth (inches): Hydric Soil Present? Yes No X Remarks:	Depth (inches):	Type:									
Remarks:	Remarks:	Depth (ir	nches):						Hydric Soil Present?	Yes	<u>No X</u>
		Remarks:									