

DEPARTMENT OF THE ARMY BALTIMORE DISTRICT, CORPS OF ENGINEERS 2 HOPKINS PLAZA BALTIMORE, MARYLAND 21203-1715

CENAB-PL-I

6/19/2020

MEMORANDUM FOR: Harvey Johnson, U.S. Army Corps of Engineers, Program Manager, Programs and Project Management Division

SUBJECT: Specimen Tree Survey and Wetland Delineation for proposed entrance road to Bureau of Engraving and Printing (BEP) site at the Beltsville Agricultural Research Center (BARC), Prince George's County, Maryland

1. On 3 April 2020, the U.S. Army Corps of Engineers (USACE), Baltimore District, Planning Division, surveyed specimen trees and performed on-site vegetation and soil sampling in order to determine the location and legally defensible extent of wetland areas and streams (Waters of the United States [WUS]), in accordance with the most recent regulatory guidance, in the area of potential disturbance for the proposed entrance road to the proposed BEP site on Poultry Road in BARC, Prince George's County, Maryland.

2. Twenty specimen trees were flagged and GPS located within the proposed entrance road alignment. Trees numbered 189 through 208 were added to the specimen tree list from the main site. The species (common and scientific name) and general health condition, along with any relevant comments concerning the trees are included in the enclosed specimen tree list (see Enclosures 1 and 4).

3. Wetland delineation was performed following current delineation practices and requirements, pursuant to the 1987 *Corps of Engineers Wetland Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0)*. Streams and wetland boundaries were marked with consecutively numbered pink glow survey flagging. The field survey was completed using Trimble GeoXH handheld Global Positioning System (GPS), in order to collect location data for each wetland delineation flag and soil sample point. This survey horizontally references the North American Datum of 1983 (NAD83), Maryland State Plane Coordinate System. GPS data collection yielded sub-meter horizontal accuracy. This data was then transferred into ArcPro for analysis and mapping.

4. Two wetlands (Wetland 7 and 8) associated with an unnamed tributary (previously delineated as WUS-4, an intermittent stream) to the Beaver Dam Creek, were delineated within the area of the proposed entrance road. Both wetlands drain to the unnamed tributary, which is located off-site and flows south, under Powder Mill Road. Portions of WUS-4 were delineated within the study area, as well as an intermittent stream channel (WUS-6), which drains Wetland 8 to WUS-4. The attached map (Enclosure 1) depicts the streams and wetlands which were delineated. The two wetlands and the unnamed tributaries are subject to regulation under Section 404 of the Clean Water Act.

5. Wetlands 7 and 8 are classified as palustrine emergent with non-persistent vegetation and a seasonally flooded/saturated water regime (PEM2E). Dominant vegetation in Wetland 7 included bent grass (*Agrostis stolonifera*) and reed-canary grass (*Phalaris arundinacea*). Dominant vegetation in Wetland 8 included broad-leaved cattail (*Typha latifolia*) and soft rush (*Juncus effuses*). Indicators for wetland hydrology, for both wetlands, were oxidized rhizospheres along living roots, inundation, and geomorphic position. The soil matrix was predominantly 10YR 4/2 with redoximorphic features of 7.5YR 4/6, which meets the hydric soil criteria for a depleted matrix. Enclosure 2 includes photos of the wetlands and the unnamed tributaries. Both unnamed tributaries to the Beaver Dam Creek (WUS-4 and WUS-6) are classified as riverine intermittent with stream channels of cobble, gravel and sand (R3SB1/2).

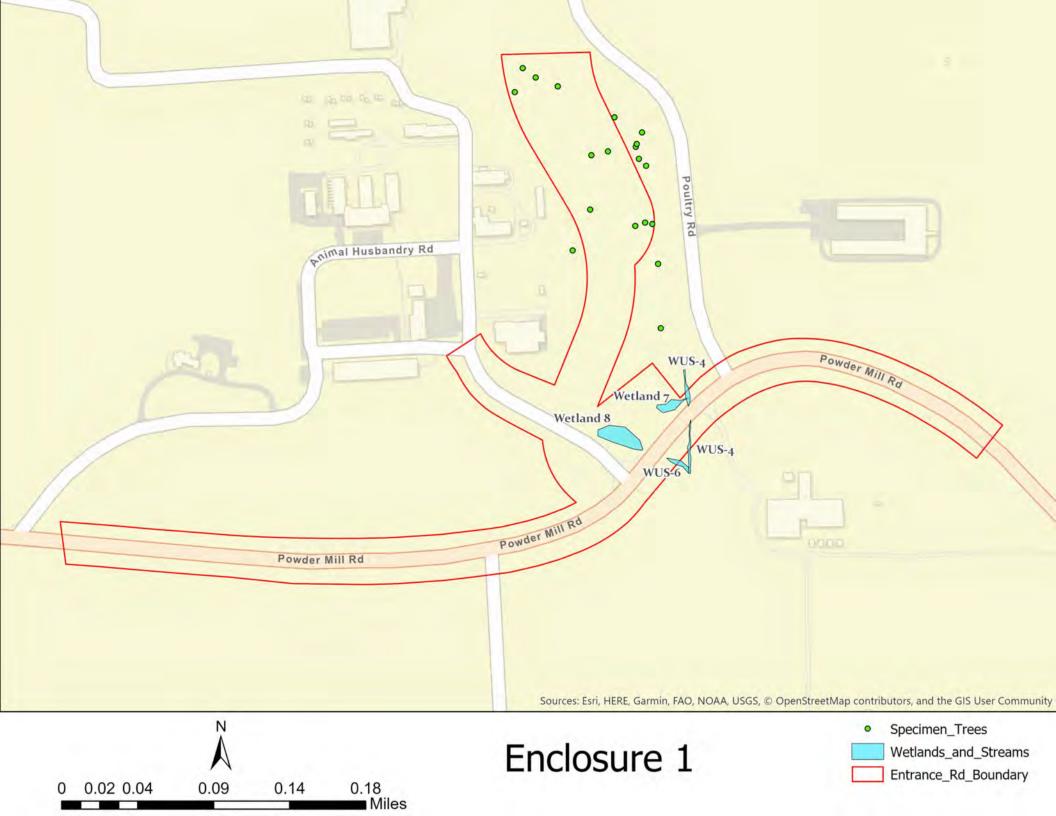
6. Any impacts from the proposed entrance road to the specimen trees will require coordination with Maryland Department of Natural Resources in regards to mitigation/reforestation during forest conservation planning. Any impacts to wetlands and/or the unnamed tributaries to Beaver Creek, which flows to Indian Creek and then the Anacostia River, will require coordination with USACE Regulatory Branch and Maryland Department of the Environment (MDE), specifically in regards to potential permitting actions within Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and all other potential permitting actions issued through USACE.

Sincerely,

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MICHAEL J. SCHUSTER Installation Support Branch Chief, Planning Division

**Enclosures**: Enclosure 1: Wetland/Specimen Tree Map Enclosure 2: Field Photographs Enclosure 3: Wetland Data Sheets Enclosure 4: Specimen Tree List ENCLOSURE 1: Wetland/Specimen Tree Mapping



ENCLOSURE 2: Field Photographs

# Enclosure 2: Field Photographs



Photo 1: WUS-4, intermittent channel, Looking upstream

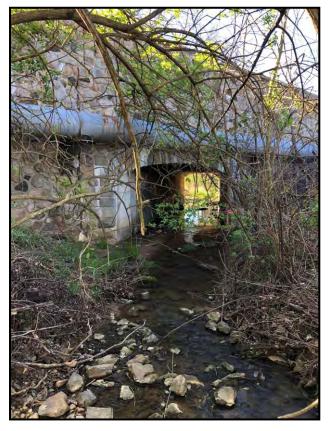


Photo 2: WUS-4, intermittent channel, upstream side of bridge under Powder Mill Road



Photo 3: Wetland 7, looking northwest



Photo 4: Wetland 8, looking north

# Enclosure 2: Field Photographs



Photo 5: Short channel that drains Wetland 7 to WUS-4



Photo 6: WUS-6, intermittent channel that drains Wetland 8 to WUS-4



Photo 7: GPS location of specimen tree

ENCLOSURE 3: Wetland Data Sheets

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

Project/Site: Bureau of Engraving and Printing on BARC	City/County:	Greenbelt/PG	Sampling Date:	4/3/20
Applicant/Owner: Bureau of Engraving and Printing	State: MD	Sampling P	oint: DP-8	
Investigator(s): DRC/LJ/CO	Section, Towns	hip, Range:		
Landform (hillslope, terrace, etc.): Flat pasture Local relie	f (concave, convex,	none): concave	Slope (%): 1-	3%
Subregion (LRR or MLRA): MLRA S/LRR 149A Lat: 39	° 01' 59.75"	Long: 76° 52' 54.17	Datum:	NAD 83
Soil Map Unit Name: Christiana-Downer Complex, 5-10% slopes			WI classification:	PEM
Are climatic/hydrologic conditions on the site typical for this time of year	ır? Ye	es X No	(If no, explain in R	emarks)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	"Normal Circumstances" pre	sent? Yes X	No
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If n	eeded, explain any answers	in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing sampling poi	nt locations, trans	ects, important features, e	etc.	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	X X X	No No No	Is the Sampled Area within a Wetland? Yes <u>X</u> No
Remarks: Wetland 7 Data point. Wetland loca	ited on be	nch abov	e WUS-4.	

### HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; ch	eck all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	X Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	X Saturation Visible on Aerial Imagery (C9)
X Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T, U)

Field Observations:											
Surface Water Present?	Yes	Х	No		Depth (inches):	2"					
Water Table Present?	Yes		No	Х	Depth (inches):						
Saturation Present?					-		Wetland Hydrology				
(includes capillary fringe)	Yes	Х	No		Depth (inches):	0"	Present?	Yes	Х	No	
Describe Recorded Data (s	tream (	gauge,	monito	oring v	vell, aerial photos,	previous ins	pections), if available:				
Remarks:											
Komano.											
Toe of slope of open pastur	e, abo	ve inte	rmitten	t strea	am channel (WUS-	4).					
	,				,	,					

VEGETATION (Five Strata) - Use scientific names	s of plants.			Sampling Point: <b>DP-8</b>
Tree Stratum (Plot Size: <u>20-foot radius plot)</u>	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2. 3.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
4. 5. 6.		· ·		Total Number of Dominant Species Across All Strata: (B)
50% of total cover:		= Total Cover 20% of total cover:		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling Stratum (Plot Size: 20-foot radius plot)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2.		<u>_</u>		OBL species x 1 =
3.				FACW species x 2 =
4.		·		FAC species x 3 =
5				FACU species x 4 =
6.		·		UPL species x 5 =
		= Total Cover		Column Totals: (A) (B)
50% of total cover:		20% of total cover:		
				Prevalence Index = B/A =
Shrub Stratum (Plot Size: 20-foot radius plot)				
1.		·		Hydrophytic Vegetation Indicators:
2.		. <u> </u>		1 - Rapid Test for Hydrophytic Vegetation
3.				2 - Dominance Test is >50%
4.				3 - Prevalence Index is $\leq 3.0^1$
5.				Problematic Hydrophytic Vegetation <sup>1</sup>
6		- Total Caver		
		= Total Cover		(Explain)
50% of total cover:		20% of total cover:		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot Size: 10-foot radius plot)				
1. Agrostis stolonifera	80	Y	FACW	Definitions of Five Vegetation Strata:
2. Phalaris arundinacea	20	<u>N</u>	FACW	Tree - Woody plants, excluding woody vines,
<ol> <li><u>Ranunculus repens</u></li> <li><u>-</u></li> </ol>	10	N	FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
5.       6.       7.		· ·		<b>Sapling -</b> Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in (7.6 cm) DBH.
8		· ·		<b>Shrub</b> – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
10 11		·		Herb - All herbaceous (non-woody) plants, including
	110	= Total Cover		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
50% of total cover:	55	20% of total cover:	22	3 ft (1 m) in height.
Woody Vine Stratum (Plot Size: 20-foot radius plot) 1.				Woody vine - All woody vines, regardless of height.
2		·		
3.		· ·		Remarks: (if observed, list morphological adaptations below.)
		= Total Cover		
50% of total cover:		20% of total cover:		Hydrophytic Yes X No Vegetation Present?

nling Point 

SOIL								Sampling	Point:	DP-8		
Profile Desc	ription: (Descri	be to the d	lepth needec	l to docı	ument the in	dicator or o	confirm the al	bsence of in	dicators.)			
	Matrix			Redox F	eatures							
Depth	Color		Color									
(Inches)	(Moist)	%	(Moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure		Ren	narks	
0-8	10YR 4/2	80	7.5YR 4/6	20	С	PL	Fine san	dy loam				
8-12	10YR 4/3	70	10YR 5/4	30	С	М	Fine san	dy loam				
<sup>1</sup> Type: C=Co	ncentration, D=[	Depletion, R	RM=Reduced	Matrix, N	/S=Masked S	Sand Grains	s. <sup>2</sup> Location: F	PL=Pore Linir	ıg, M=Matri	x		
Hydric Soil I	Indicators:							Indica	tors for Pr	oblematic	: Hydric Soils <sup>3</sup> :	
Histoso	bl (A1)			Polvvalı	ue Below Sur	face (S8) <b>(I</b>	RR S. T. U)	1 cm M	luck (A9) <b>(I</b>			
	Epipedon (A2)			-	rk Surface (S				luck (A10)			
	Histic (A3)				Mucky Minera				. ,	• •	ide MLRA 150A, B)	
	en Sulfide (A4)			-	Gleyed Matrix		,		-		F19) (LRR P, S, T)	
	ed Layers (A5)		X	-	d Matrix (F3)				alous Bright	-		
	c Bodies (A6) <b>(L</b> l	RR P. T. U)			Dark Surface				RA 153B)		(0)	
	lucky Mineral (A				d Dark Surfa	· /			arent Mater	ial (TF2)		
	Presence (A8) (L		., 0)		Depressions				hallow Darl		(TE12)	
	luck (A9) (LRR F				10) <b>(LRR U)</b>	(10)			Explain in		(11.12)	
	ed Below Dark S				d Ochric (F1	1) (MI DA 1	51)			(cinarks)		
	Dark Surface (A1	-	·)		-							
	Prairie Redox (A	-	1504)		ron-Manganese Masses (F12) (LRR O, P, T) Jmbric Surface (F13) (LRR P, T, U)				<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless			
	Mucky Mineral (				chric (F17) (N		, 0)		na nyarolog bed or prob		e present, unless	
					d Vertic (F18		0A 150B)	uistui	bed of plot	nematic.		
	Gleyed Matrix (S Redox (S5)	94)				<i>,</i> .		<b>A</b> )				
	. ,					-	9) <b>(MLRA 149</b> (F20) <b>(MLRA 1</b>		1520)			
	d Matrix (S6)	рети	、    —	Anomai	ous Bright Lu	arriy Solis (		149A, 155C,	1550)			
	urface (S7) <b>(LRF</b>	(F, 5, 1, 0	)									
Restrictive L	ayer (if observ	ed):					_					
					Hyd	ric Soil Pre	sent?	Yes	X	No		
Depth (i	nches):											
Remarks:												
Based on soi	il profile, hydrolo	gy source a	appears to be	surface	water.							

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

Project/Site:	Bureau o	f Engra	ving and Printing on E	BARC		City/Cou	unty:	Greenbe	lt/PG	Sampling Date:	4/3/20
Applicant/Owner:	Burea	u of En	graving and Printing			State:	MD		Sampling Point	:: DP-9	
Investigator(s):	DRC/	LJ/CO				Section,	Townsh	ip, Range	:		
Landform (hillslop	e, terrace	etc.):	Road embankment	Local	relief (co	oncave, o	convex, r	none):	concave	Slope (%):	5%
Subregion (LRR o	or MLRA):	MLR	A S/LRR149A	Lat:	39° 01	' 59.28"		Long:	76° 52' 54.21"	Datum	NAD 83
Soil Map Unit Nan	me: <u>Cł</u>	ristiana	-Downer Complex, 5-	-10% slop	bes				NW	classification:	UPL
Are climatic/hydro	logic cond	litions o	n the site typical for th	nis time o	f year?		Yes	X	No	(If no, explain in	Remarks)
Are Vegetation	, So	il	, or Hydrology	significa	antly dist	turbed?	Are "N	Normal Cir	cumstances" preser	nt? Yes X	No
Are Vegetation	, So	il	, or Hydrology	naturall	y proble	matic?	(If ne	eded, exp	lain any answers in l	Remarks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	X X X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks: Upland data point located between <sup>v</sup>	Wetlands 7 and 8					

# HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che	<u>ck all that apply)</u>	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum Moss (D8) <b>(LRR T, U)</b>

Field Observations:								
Surface Water Present?	Yes	No	Х	Depth (inches):				
Water Table Present?	Yes	No	Х	Depth (inches):				
Saturation Present?					Wetland Hydrology			
(includes capillary fringe)	Yes	No	Х	Depth (inches):	Present?	Yes	No X	_
Describe Recorded Data (s	stream gau	uge, monit	oring	well, aerial photos, previous	inspections), if available:			
Demonitor								
Remarks:								
No signs of hydrology.								

VEGETATION (Five Strata) - Use scientific names	of plants.			Sampling Point: <b>DP-9</b>
Tree Stratum (Plot Size: 20-foot radius plot)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2. 3.		· ·		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
4 5				Total Number of Dominant Species Across All Strata: (B)
50% of total cover:		= Total Cover 20% of total cover:		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling Stratum (Plot Size: 20-foot radius plot)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2.				OBL species x 1 =
3.		<u> </u>		FACW species x 2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
6.				UPL species x 5 =
		= Total Cover		Column Totals: (A) (B)
50% of total cover:		20% of total cover:		Prevalence Index = B/A =
Shrub Stratum (Plot Size: 20-foot radius plot)				Hydrophytic Vegetation Indicators:
1 2				1 - Rapid Test for Hydrophytic Vegetation
3.				2 - Dominance Test is >50%
4.				$3 - \text{Prevalence Index is } \le 3.0^1$
5.				Problematic Hydrophytic Vegetation <sup>1</sup>
6.				
		= Total Cover		
50% of total cover:		20% of total cover:		(Explain)
		-		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot Size: 10-foot radius plot)				Definitions of Five Vegetation Strata:
1. <u>Festuca pratensis</u>	70	<u> </u>	FACU	Demnitions of Five vegetation Strata:
2. <u>Trifolium repens</u>	10	<u> </u>	FACU FACU	<b>Tree</b> - Woody plants, excluding woody vines,
<ol> <li><u>Plantago lanceolata</u></li> <li>4.</li> </ol>	5	<u>N</u>	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
5.       6.       7.		· ·		<b>Sapling -</b> Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in (7.6 cm) DBH.
8. 9.		· ·		<b>Shrub</b> – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
10 11		- <u> </u>		<b>Herb -</b> All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
	85	= Total Cover		plants, except woody vines, less than approximately
50% of total cover:	42.5	20% of total cover:	17	3 ft (1 m) in height. <b>Woody vine -</b> All woody vines, regardless of height.
Woody Vine Stratum (Plot Size: 20-foot radius plot) 1				······································
2.			<u> </u>	Demarke: (if abaar and list marsheld start
3.				Remarks: (if observed, list morphological adaptations below.)
		= Total Cover		
50% of total cover:		20% of total cover:		Hydrophytic Yes X No Vegetation Present?

Sampling Point: DP-9

(Inches)         (Moist)         %         (Moist)         %         Type1         Loc2         Texture         Remarks           0-12         10YR 3/4         60         5YR 4/6         20         Sandy loam         Fill material           0-12         10YR 3/4         60         5YR 4/6         20         Clay         Fill material           0         10YR 7/2         Clay         Fill material         Clay         Fill material           0         10YR 7/2         Clay         Fill material         Clay         Fill material           0         10YR 7/2         Clay         Fill material         Clay         Fill material           0         10YR 7/2         Clay         Fill material         Clay         Fill material           0         10YR 7/2         Clay         Fill material         Clay         Fill material           0         10YR 7/2         Clay         Fill material         Clay         Fill material           1         Trype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Loc2         To material Aria         Fill material           1         Tribit Dark Surface (S9) (LRR S, T, U)         1 cm Muck (A9 (LRR O)         Clay         Tom Muck (A9 (LRR O)         Clay	Depth	Color	(	Color	Redox						
0-12       10YR 3/4       60       5YR 4/6       20       Sandy loam       Fill material         0-12       10YR 7/2       Clay       Fill material       Fill material         10YR 7/2       Clay       Fill material       Fill material         10YR 7/2       Clay       Fill material         10YR 7/2       Fill material       Fill         10YR 7/2       Fill material       Fill         10YR 7/2       Fill material       Fill material         10Y	•		%		%		Loc <sup>2</sup>	Texture		Rema	rks
Image: International content of the second secon	· /	. ,		. ,							
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>1</sup> :         Histosoi (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Sulfide (A4)       Loamy Gleved Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Muck A90 (LRR P, T, U)       Depleted Dark Surface (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       alicitators of hydrophytic vegetation and wetland hydrology must be present, unless         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F13) (MLRA 150A, 150B)       sandy Gleyed Matrix (S6)       Piedmont Floodplains Soils (F20) (MLRA 149A)         Stripped Matrix (S6)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       D				10YR 7/2						Fill mat	erial
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histosol (A1)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Suffde (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T, G)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T, U)       Depleted Oark Surface (F13) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Oark Surface (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)         Restrictive Layer (If observed):       Type:       No											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Suffde (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T, Garaic Bodies (A6) (LRR P, T, U)       Depleted Dark Surface (F6)       (MLRA 153B)         Organic Bodies (A6) (LRR P, T, U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)       Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T, U)       Depleted Oark Surface (F7)       Red Parent Material (TF2)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T, U)       Depleted Oark Surface (F7)       Red Parent Material (TF2)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T, U)       Depleted Oark Surface (F13) (LRR O, P, T)       Mari (F10) (LR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Oark Surface (F13) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 15											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histosol (A1)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Suffde (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T, G)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T, U)       Depleted Oark Surface (F13) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Oark Surface (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)         Restrictive Layer (If observed):       Type:       No											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histosol (A1)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Suffde (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T, G)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T, U)       Depleted Oark Surface (F13) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Oark Surface (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)         Restrictive Layer (If observed):       Type:       No											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histosol (A1)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Suffde (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T, G)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T, U)       Depleted Oark Surface (F13) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Oark Surface (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)         Restrictive Layer (If observed):       Type:       No											
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Suffde (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T, G)         Organic Bodies (A6) (LRR P, T, U)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)         Restrictive Layer (If observed):       Type:       No </td <td></td>											
Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histosol (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, T)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck (A9) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F13) (MLRA 150A, 150B)       Sandy Redox (S5)         Sandy Gleyed Matrix (S6)       Piedmont Floodplains Soils (F19) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)	Type: C=Cor	ncentration, D=	Depletion,	, RM=Reduce	d Matrix, I	NS=Masked	Sand Grains	<sup>2</sup> Location: PL=	Pore Lining, M	=Matrix	
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Thino-Manganese Masses (F12) (LRR O, P, T)         3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 150A, 150B)         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A), 153C, 153D)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present?       Yes       No       X         Deptht (inches):       Type:       No	lydric Soil li	ndicators:							Indicators	for Problematic H	ydric Soils <sup>3</sup> :
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (Outside MLRA 150A, I         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Thino-Manganese Masses (F12) (LRR O, P, T)         3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 150A, 150B)         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A), 153C, 153D)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present?       Yes       No       X         Deptht (inches):       Type:       No	Histosol	I (A1)			Polyval	ue Below Su	rface (S8) <b>(I</b>	RRSTU)	1 cm Muck	(A9) <b>(I RR O)</b>	
Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR 0)       Reduced Vertic (F18) (Outside MLRA 150A, 1         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Thor.Manganese Masses (F12) (LRR O, P, T)         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F13) (MLRA 150A)       Umbric Surface (F13) (LRR P, T, U)       alindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F13) (MLRA 150A, 150B)       alisturbed or problematic.         Sandy Redox (S5)       Piedmont Floodplains Soils (F20) (MLRA 149A), 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)         Restrictive Layer (if observed):       Type:       Mydric Soil Present?       Yes       No       X         Depth		. ,						· · · · · · · · · · · · · · · · · · ·			
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T, Stratified Layers (A5)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Iron-Manganese Masses (F12) (LRR O, P, T)         Coast Prairie Redox (A16) (MLRA 150A)       Umbric Surface (F13) (LRR P, T, U) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 150A, 150B)       Sandy Redox (S5)       Piedmont Floodplain Soils (F20) (MLRA 149A)         Stripped Matrix (S6)       Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)         Restrictive Layer (if observed):       Type:       Mydric Soil Present?       Yes       No       X         Depth (inches):       Type:       Hydric Soil Present?       Yes       No       X<					-		, ,				MLRA 150A. B
Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Mari (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       iron-Manganese Masses (F12) (LRR O, P, T)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F13) (MLRA 150A, 100H 100H 100H 100H 20H 20H 20H 20H 20H 20H 20H 20H 20H					_	-					
5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 151) <sup>3</sup> Indicators of nydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Piedmont Floodplains Soils (F19) (MLRA 149A)         Stripped Matrix (S6)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)       No         Mestrictive Layer (if observed):       Type:	• •	. ,			-	-					
Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Iron-Manganese Masses (F12) (LRR O, P, T)         Thick Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 150A)       Withic Surface (F18) (MLRA 150A, 150B)         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       disturbed or problematic.         Sandy Redox (S5)       Piedmont Floodplains Soils (F19) (MLRA 149A)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present?       Yes       No       X	Organic	Bodies (A6) <b>(L</b>	.RR P, T,	U)	Redox	Dark Surface	e (F6)		(MLRA 1	53B)	
1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Iron-Manganese Masses (F12) (LRR O, P, T)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 150A)       Iron-Manganese Masses (F12) (LRR O, P, T)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 151)       disturbed or problematic.         Sandy Redox (S5)       Piedmont Floodplains Soils (F19) (MLRA 149A)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present?       Yes       No       X	5 cm Mi	ucky Mineral (A	7) (LRR F	P, T, U)	Deplete	ed Dark Surfa	ace (F7)		Red Parent	Material (TF2)	
Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)         Thick Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T)         Coast Prairie Redox (A16) (MLRA 150A)       Umbric Surface (F13) (LRR P, T, U)         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 151)         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)         Sandy Redox (S5)       Piedmont Floodplains Soils (F19) (MLRA 149A)         Stripped Matrix (S6)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present?         Yes       No         X       Depth (inches):	Muck Pr	resence (A8) <b>(L</b>	.RR U)		Redox	Depressions	(F8)		Very Shallo	w Dark Surface (TF	12)
Thick Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 151)       disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Piedmont Floodplains Soils (F19) (MLRA 149A)         Stripped Matrix (S6)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes       No       X	1 cm Mu	uck (A9) <b>(LRR I</b>	Ρ, Τ)		Marl (F	10) <b>(LRR U)</b>			Other (Expl	ain in Remarks)	
Coast Prairie Redox (A16) (MLRA 150A)       Umbric Surface (F13) (LRR P, T, U)       wetland hydrology must be present, unless         Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 151)       disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)       Piedmont Floodplains Soils (F19) (MLRA 149A)         Stripped Matrix (S6)       Piedmont Floodplains Soils (F20) (MLRA 149A, 153C, 153D)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Restrictive Layer (if observed):       Type:        No       X         Depth (inches):        Hydric Soil Present?       Yes       No       X	Deplete	d Below Dark S	Surface (A	.11)	Deplete	ed Ochric (F1	1) (MLRA 15	51)			
Sandy Mucky Mineral (S1) (LRR O, S)       Delta Ochric (F17) (MLRA 151)       disturbed or problematic.         Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)         Sandy Redox (S5)       Piedmont Floodplains Soils (F19) (MLRA 149A)         Stripped Matrix (S6)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present? Yes       No         X       Depth (inches):       No       X		-	-		-	-			<sup>3</sup> Indicators	of hydrophytic veg	etation and
Sandy Gleyed Matrix (S4)       Reduced Vertic (F18) (MLRA 150A, 150B)         Sandy Redox (S5)       Piedmont Floodplains Soils (F19) (MLRA 149A)         Stripped Matrix (S6)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present? Yes       No       X         Depth (inches):       No       X		-			-	-		U)			esent, unless
Sandy Redox (S5)       Piedmont Floodplains Soils (F19) (MLRA 149A)         Stripped Matrix (S6)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present? Yes         No       X         Depth (inches):       No		-		O, S)	-				disturbed of	or problematic.	
Stripped Matrix (S6)       Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Hydric Soil Present?         Ype:       No         X       Depth (inches):			54)		-						
Dark Surface (S7) (LRR P, S, T, U)           Restrictive Layer (if observed):           Type:           Depth (inches):             Hydric Soil Present?           Yes   No X					-						
Restrictive Layer (if observed):       Type:       No       X         Type:       Depth (inches):       No       X		. ,			Anoma	lous Bright L	oamy Soils (F	-20) <b>(MLRA 149</b>	A, 153C, 153D	)	
Type:         Mo         X           Depth (inches):	Dark Su	irface (S7) (LRI	R P, S, T,	U)							
Depth (inches):	Restrictive L	ayer (if observ	ved):								
						Hyd	Iric Soil Pres	sent?	/es	No	X
	Depth (ir	nches):									
	Remarks:										
	Soil is compri	sed of mixed lo	am/clay w	vith gravel fron	n road fill.						
Soil is comprised of mixed loam/clay with gravel from road fill.											
Soil is comprised of mixed loam/clay with gravel from road fill.											
Soil is comprised of mixed loam/clay with gravel from road fill.											
Soil is comprised of mixed loam/clay with gravel from road fill.											
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Soil is comprised of mixed loam/clay with gravel from road fill.											

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

Project/Site: Bu	reau of Engrav	ving and Prir	nting on B	ARC	City/Cou	unty: (	Greenbelt	/PG	Sampling Date:	4/3/20
Applicant/Owner:	Bureau of En	graving and	Printing		State:	MD		Sampling Poin	t: DP-10	
Investigator(s):	DRC/LJ/CO				Section	ı, Township	, Range:			
Landform (hillslope, te	errace, etc.):	Flat pastu	re	Local relief (	concave,	convex, no	one):	concave	Slope (%): 5	-8%
Subregion (LRR or M	LRA): MLR	A S/LRR 14	9A	Lat: 39° 0	01' 58.37"		Long:	76° 52' 55.73"	Datum:	NAD 83
Soil Map Unit Name:	Soil Map Unit Name: Christiana-Downer Complex, 5-10% slopes NWI classification: PEM								PEM	
Are climatic/hydrologi	c conditions o	n the site typ	pical for th	is time of year?	,	Yes	Х	No	(If no, explain in F	Remarks)
Are Vegetation	, Soil	, or Hydrold	ogy	significantly dis	sturbed?	Are "No	ormal Circ	umstances" preser	nt? Yes X	No
Are Vegetation	, Soil	, or Hydrold	ogy	naturally probl	ematic?	(If need	ded, expla	in any answers in	Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetatio	on Present?	Yes	х	No		Is the \$	Sampled	Area		
Hydric Soil Present?		Yes	Х	No		within	a Wetlan	d? Yes	X No	
Wetland Hydrology P	resent?	Yes	Х	No						
Remarks: Wetland 8 Data point.										

#### HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; ch	<u>eck all that apply)</u>	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	X Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	X Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T, U)

Field Observations:										
Surface Water Present?	Yes		No	Х	Depth (inches):					
Water Table Present?	Yes		No	Х	Depth (inches):		-			
Saturation Present?					_		Wetland Hydrology			
(includes capillary fringe)	Yes	Х	No		Depth (inches):	0"	Present?	Yes	Х	No
Describe Recorded Data (s	stream g	gauge,	monito	oring \	well, aerial photos,	previous inspec	tions), if available:			
Remarks:										
	approx	kimatel	y 2' we	est of	data point. Wetlan	d 8 drains unde	r Powder Mill road to WUS-6	then to V	VUS-4.	
Cypress knees present.										

VEGETATION (Five Strata) - Use scientific names				Sampling Point: <b>DP-10</b>
Tree Stratum (Plot Size: 20-foot radius plot)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Diospyros virginiana	5	Yes	FAC	Number of Dominant Species That
2. Taxodium distichum	8	Yes	OBL	Are OBL, FACW, or FAC: 2 (A)
3.		· ·		( )
4.		· ·		Total Number of Dominant Species
5.		·		Across All Strata: 2 (B)
6.		·		(5)
	13	= Total Cover		Percent of Dominant Species That
50% of total cover:	6.5	20% of total cover:	2.6	Are OBL, FACW, or FAC: 100 (A/B)
	0.0			
Sapling Stratum (Plot Size: 20-foot radius plot)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2.		·		OBL species x 1 =
3.		· ·	<u> </u>	FACW species x 2 =
4.		·		FAC species x 3 =
5.		· ·		FACU species x 4 =
6.		·		UPL species x 5 =
···		= Total Cover		Column Totals: (A) (B)
50% of total cover:		20% of total cover:		
				Prevalence Index = B/A =
Shrub Stratum (Plot Size: 20-foot radius plot)				
1			<u> </u>	Hydrophytic Vegetation Indicators:
2.		·		1 - Rapid Test for Hydrophytic Vegetation
3.		. <u> </u>		2 - Dominance Test is >50%
4.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
5.				Problematic Hydrophytic Vegetation <sup>1</sup>
6.				
		= Total Cover		(Explain)
50% of total cover:		20% of total cover:		
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
				present, unless disturbed or problematic.
Herb Stratum (Plot Size: 10-foot radius plot)			0.01	Definitions of Five Vegetation Strata:
1. Typha latifolia	80	<u>Y</u>	OBL	Deminitions of Five vegetation Strata.
2. Juncus effuses	10	<u>N</u>	OBL	Tree - Woody plants, excluding woody vines,
3. Lythrum salicaria	5	<u>N</u>	OBL	approximately 20 ft (6 m) or more in height and 3 in. $(7.6 \text{ sm})$ as larger in diameter at based based to (DBL)
4.		·		(7.6 cm) or larger in diameter at breast height (DBH).
5.		·		Sapling - Woody plants, excluding woody vines,
6.				approximately 20 ft (6 m) or more in height and less
7.				than 3 in (7.6 cm) DBH.
8.			<u> </u>	Shrub – Woody plants, excluding woody vines,
9				approximately 3 to 20 ft (1 to 6 m) in height.
10				Herb - All herbaceous (non-woody) plants, including
11				herbaceous vines, regardless of size, <u>and</u> woody
	95	= Total Cover		plants, except woody vines, less than approximately
50% of total cover:	47.5	20% of total cover:	19	3 ft (1 m) in height.
				Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot Size: 20-foot radius plot)				
1.				
2.		· ·		
3.		· ·		Remarks: (if observed, list morphological
		·		adaptations below.)
		= Total Cover		
50% of total cover:		20% of total cover:		Hydrophytic Yes X No
				Vegetation
				Present?

SOIL

Profile Desc	ription: (Descri Matrix		e depth neede		<b>ument the in</b> Features	dicator or o	onfirm the abso	ence of ir	ndicators.)		
Depth	Color	·	Color								
(Inches)	(Moist)	%	(Moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<b>;</b>		Remarks	
0-8	10 YR 4/2	70	10YR 4/3	30	C	PL	Sandy loa	am			
							·				
								<u> </u>			
								<u> </u>			
<u> </u>											
<sup>1</sup> Type: C=Co	ncentration, D=[	Depletior	n, RM=Reduced	Matrix, I	MS=Masked	Sand Grains	. <sup>2</sup> Location: PL=	Pore Lini	ng, M=Matri	x	
Hydric Soil I	ndicators:							Indica	ators for Pr	oblematic Hydric Soils <sup>3</sup> :	
Histoso	l (A1)			Polyval	ue Below Su	rface (S8) <b>(L</b>	RR S, T, U)	1 cm I	Muck (A9) <b>(L</b>	_RR O)	
Histic E	pipedon (A2)			Thin Da	ark Surface (S	59) <b>(LRR S</b> ,	T, U)	2 cm I	Muck (A10)	(LRR S)	
Black H	listic (A3)			Loamy	my Mucky Mineral (F1) <b>(LRR O)</b>				ced Vertic (F	18) (Outside MLRA 150A, B)	
Hydrog	en Sulfide (A4)			Loamy	Gleyed Matri	x (F2)		Piedm	ont Floodpla	ain Soils (F19) <b>(LRR P, S, T)</b>	
Stratifie	d Layers (A5)		X	Deplete	ed Matrix (F3)	)		Anom	alous Bright	Loamy Soils (F20)	
Organic	Bodies (A6) <b>(L</b>	RR P, T,	U)	Redox	Dark Surface	(F6)		(MLRA 153B)			
5 cm M	ucky Mineral (A	7) <b>(LRR</b>	P, T, U)	Deplete	ed Dark Surfa	ice (F7)		Red P	Red Parent Material (TF2)		
Muck P	resence (A8) <b>(L</b>	RR U)		Redox	ox Depressions (F8)				Very Shallow Dark Surface (TF12)		
1 cm M	uck (A9) <b>(LRR F</b>	P, T)		Marl (F	(F10) <b>(LRR U)</b>				(Explain in F	Remarks)	
Deplete	d Below Dark S	urface (A	A11)	Deplete	ed Ochric (F1	1) (MLRA 1	51)				
Thick D	ark Surface (A1	2)		Iron-Ma	ron-Manganese Masses (F12) <b>(LRR O, P, T)</b>			<sup>3</sup> Indi	<sup>3</sup> Indicators of hydrophytic vegetation and		
Coast F	Prairie Redox (A	16) <b>(MLF</b>	RA 150A)	– Umbric Surface (F13) <b>(LRR P, T, U)</b> – Delta Ochric (F17) <b>(MLRA 151)</b>				wetland hydrology must be present, unless disturbed or problematic.			
Sandy I	Mucky Mineral (	S1) (LRF	R O, S)								
Sandy	Gleyed Matrix (S	64)		Reduce	ed Vertic (F18	B) (MLRA 15	0A, 150B)				
Sandy I	Redox (S5)			Piedmo	edmont Floodplains Soils (F19) (MLRA 149A)						
Strippe	d Matrix (S6)			Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
Dark Sເ	urface (S7) <b>(LRF</b>	R P, S, T	, U)								
Restrictive L	ayer (if observ	ed):									
	Туре:				Hyd	ric Soil Pre	sent?	Yes _	X	No	
Depth (ii	nches):										
Remarks:											

ENCLOSURE 4: Specimen Tree List

BEP Specimen Trees							
#	Scientific Name	Common Name	DBH	Condtion			
ST1	Quercus alba	White Oak	39.9	Very Good			
ST2	Quercus alba	White Oak	32	Very Good			
ST3	Quercus alba	White Oak	33	Good			
ST4	Quercus alba	White Oak	34.5	Very Good			
ST5	Quercus alba	White Oak	54	Good			
ST6	Quercus alba	White Oak	35	Very Good			
ST7	Quercus alba	White Oak	33	Good			
ST8	Quercus alba	White Oak	36	Very Good			
ST9	Quercus alba	White Oak	42	Very Good			
ST10	Liquidambar styraciflua	Sweet Gum	34	Very Good			
ST11	Quercus alba	White Oak	37	Very Good			
ST12	Liquidambar styraciflua	Sweet Gum	34	Fair			
ST13	Acer rubrum	Red Maple	36	Fair			
ST14	Quercus alba	White Oak	40.5	Fair			
ST15	Quercus alba	White Oak	32	Good			
ST16	Quercus alba	White Oak	35	Good			
ST17	Quercus alba	White Oak	43	Good			
ST18	Quercus alba	White Oak	55	Fair			
ST19	Quercus alba	White Oak	53	Fair			
ST20	Quercus palustris	Pin Oak	37	Poor			
ST21	Quercus phellos	Willow Oak	58	Fair			
ST22	Quercus phellos	Willow Oak	35.75	Fair			
ST23	Quercus phellos	Willow Oak	52	Poor			
ST24	Quercus alba	White Oak	53	Very Good			
ST25	Quercus alba	White Oak	48	Poor			
ST26	Quercus alba	White Oak	45	Poor			
ST27	Quercus alba	White Oak	34	Good			
ST28	Quercus alba	White Oak	37	Good			
ST29	Quercus alba	White Oak	33	Good			
ST30	Quercus alba	White Oak	37	Good			
ST31	Quercus alba	White Oak	46	Good			
ST32	Quercus alba	White Oak	33.5	Good			
ST33	Quercus alba	White Oak	37	Poor			
ST34	Quercus alba	White Oak	33	Good			
ST35	Quercus alba	White Oak	36	Good			
ST36	Liquidambar styraciflua	Sweet Gum	33	Fair			
ST37	Quercus alba	White Oak	48	Fair			
ST38	Liquidambar styraciflua	Sweet Gum	34	Poor			
ST39	Quercus alba	White Oak	40	Fair			
ST40	Quercus alba	White Oak	45	Good			
ST41	Quercus alba	White Oak	43	Fair			
ST42	Quercus alba	White Oak	45	Poor			
ST43	Quercus alba	White Oak	51	Good			
ST44	Quercus alba	White Oak	41	Good			
ST45	Quercus alba	White Oak	33	Good			

ST46	Quercus alba	White Oak	48	Fair
ST47	Quercus alba	White Oak	46	Fair
ST48	Quercus alba	White Oak	44	Good
ST49	Quercus alba	White Oak	38.5	Good
ST50	Quercus alba	White Oak	51	Poor
ST51	Quercus alba	White Oak	40	Good
ST52	Quercus alba	White Oak	37.5	Good
ST53	Liquidambar styraciflua	Sweet Gum	30.5	Fair
ST54	Quercus alba	White Oak	37	Poor
ST55	Quercus alba	White Oak	37	Good
ST56	Quercus alba	White Oak	39	Fair
ST57	Quercus alba	White Oak	40	Good
ST58	Quercus alba	White Oak	34	Good
ST59	Quercus alba	White Oak	37.5	Good
ST60	Liquidambar styraciflua	Sweet Gum	30	Poor
ST61	Liquidambar styraciflua	Sweet Gum	33	Good
ST61	Quercus stellata	Post Oak	35	Good
ST63	Quercus stenatu Quercus alba	White Oak	33.5	Poor
ST65	Quercus albu Quercus stellata	Post Oak	33.5 31	Fair
	•			
ST65	Quercus alba	White Oak	35	Good
ST66	Acer rubrum	Red Maple	40.5	Very Poor
ST67	Quercus alba	White Oak	38	Good
ST68	Liquidambar styraciflua	Sweet Gum	38	Good
ST69	Liquidambar styraciflua	Sweet Gum	31	Fair
ST70	Liquidambar styraciflua	Sweet Gum	30.5	Good
ST71	Liquidambar styraciflua	Sweet Gum	33	Good
ST72	Liquidambar styraciflua	Sweet Gum	34	Good
ST73	Liquidambar styraciflua	Sweet Gum	33	Fair
ST74	Liquidambar styraciflua	Sweet Gum	31	Fair
ST75	Liquidambar styraciflua	Sweet Gum	31	Fair
ST76	Liquidambar styraciflua	Sweet Gum	35	Very Poor
ST77	Liquidambar styraciflua	Sweet Gum	36	Very Poor
ST78	Liquidambar styraciflua	Sweet Gum	44	Fair
ST79	Liquidambar styraciflua	Sweet Gum	37	Good
ST80	Liquidambar styraciflua	Sweet Gum	36	Poor
ST81	Liquidambar styraciflua	Sweet Gum	31	Very Poor
ST82	Liquidambar styraciflua	Sweet Gum	30.5	Fair
ST83	Liquidambar styraciflua	Sweet Gum	31	Fair
ST84	Nyssa sylvatica	Black Gum	30	Poor
ST85	Liquidambar styraciflua	Sweet Gum	34	Fair
ST86	Liquidambar styraciflua	Sweet Gum	30	Good
ST87	Liquidambar styraciflua	Sweet Gum	46	Very Good
ST88	Liquidambar styraciflua	Sweet Gum	30	, Fair
ST89	Liquidambar styraciflua	Sweet Gum	32	Fair
ST90	Nyssa sylvatica	Black Gum	33.5	Poor
ST91	Quercus palustris	Pin Oak	60	Good
ST92	Quercus alba	White Oak	45	Fair
			-	-

ST93	Liquidambar styraciflua	Sweet Gum	31	Fair
ST94	Liquidambar styraciflua	Sweet Gum	35	Fair
ST95	Liquidambar styraciflua	Sweet Gum	34	Fair
ST96	Liquidambar styraciflua	Sweet Gum	30	Good
ST97	Liquidambar styraciflua	Sweet Gum	33	Very Poor
ST98	Liquidambar styraciflua	Sweet Gum	31	Fair
ST99	Liquidambar styraciflua	Sweet Gum	34	Fair
ST100	Quercus palustris	Pin Oak	42	Good
ST101	Liquidambar styraciflua	Sweet Gum	31	Poor
ST102	Liquidambar styraciflua	Sweet Gum	35	Poor
ST103	Liquidambar styraciflua	Sweet Gum	32	Very Poor
ST104	Quercus bicolor	Swamp White Oak	35	Good
ST105	Acer rubrum	Red Maple	33	Fair
ST106	Quercus alba	White Oak	35	Good
ST107	Quercus phellos	Willow Oak	37	Very Good
ST108	Quercus alba	White Oak	37	Very Good
ST109	Quercus alba	White Oak	36	Poor
ST110	Quercus alba	White Oak	35	Good
ST111	Quercus alba	White Oak	34	Poor
ST112	Quercus alba	White Oak	34	Good
ST113	Quercus alba	White Oak	35	Good
ST114	Quercus alba	White Oak	33	Good
ST115	Quercus alba	White Oak	42	Poor
ST116	Liquidambar styraciflua	Sweet Gum	30	Good
ST117	Carya glabra	Pignut Hickory	30	Good
ST118	Quercus phellos	Willow Oak	49	Very Good
ST119	Carya glabra	Shagbark Hickory	33	Good
ST120	Quercus alba	White Oak	33	Poor
ST121	Quercus alba	White Oak	39	Fair
ST122	Quercus alba	White Oak	36	Good
ST123	Acer rubrum	Red Maple	35	Good
ST124	Liquidambar styraciflua	Sweet Gum	37	Fair
ST125	Quercus stellata	Post Oak	35	Fair
ST126	Quercus palustris	Pin Oak	38	Poor
ST127	Quercus alba	White Oak	36	Good
ST128	Quercus alba	White Oak	42	Good
ST129	Quercus alba	White Oak	33	Good
ST130	Quercus alba	White Oak	33	Good
ST131	Quercus alba	White Oak	33	Good
ST132	Quercus alba	White Oak	35	Fair
ST133	Quercus alba	White Oak	41	Good
ST134	Liquidambar styraciflua	Sweet Gum	33	Good
ST135	Quercus alba	White Oak	40	Good
ST136	Quercus alba	White Oak	45	Fair
ST137	Quercus alba	White Oak	46	Good
ST138	Quercus alba	White Oak	43	Good
ST139	Liquidambar styraciflua	Sweet Gum	31	Good

ST140	Liquidambar styraciflua	Sweet Gum	32	Fair
ST141	Quercus alba	White Oak	41	Poor
ST142	Quercus alba	White Oak	33	Fair
ST143	Quercus alba	White Oak	35	Good
ST144	Quercus alba	White Oak	33	Good
ST145	Quercus palustris	Pin Oak	38	Good
ST146	Quercus alba	White Oak	38.5	Good
ST147	Liquidambar styraciflua	Sweet Gum	45	Fair
ST148	Quercus alba	White Oak	36	Good
ST149	Quercus alba	White Oak	44	Good
ST150	Quercus alba	White Oak	53	Good
ST151	Quercus alba	White Oak	34	Good
ST152	Quercus alba	White Oak	46	Good
ST153	Quercus alba	White Oak	45	Good
ST154	Quercus alba	White Oak	48	Good
ST155	Quercus alba	White Oak	46	Good
ST156	Quercus alba	White Oak	38	Poor
ST157	Quercus palustris	Pin Oak	52	Fair
ST158	Quercus alba	White Oak	39	Good
ST159	Acer ruburm	Red Maple	36	Good
ST160	Quercus alba	White Oak	35	Very Good
ST161	Quercus stellata	Post Oak	31	Good
ST162	Quercus velutina	Black Oak	31	Poor
ST163	Quercus prinus	Chestnut Oak	36	Poor
ST164	Quercus alba	White Oak	58	Good
ST165	Acer rubrum	Red Maple	50	Good
ST166	Quercus alba	White Oak	36	Good
ST167	Quercus alba	White Oak	33	Good
ST168	Quercus alba	White Oak	31	Good
ST169	Liquidambar styraciflua	Sweet Gum	32	Good
ST170	Quercus alba	White Oak	30	Good
ST171	Quercus alba	White Oak	36	Good
ST172	Quercus cocina	Scarlett Oak	41	Fair
ST173	Quercus alba	White Oak	31	Good
ST174	Quercus alba	White Oak	47	Very Poor
ST175	Quercus alba	White Oak	40	Good
ST176	Quercus alba	White Oak	31	Good
ST177	Quercus alba	White Oak	34	Poor
ST178	Quercus alba	White Oak	34	Good
ST179	Quercus alba	White Oak	32	Good
ST180	Quercus alba	White Oak	33	Poor
ST181	Quercus alba	White Oak	31	Good
ST182	Quercus alba	White Oak	31	Good
ST183	Quercus alba	White Oak	32	Good
ST184	Quercus alba	White Oak	36	Good
ST185	Quercus alba	White Oak	33	Good
ST186	Quercus alba	White Oak	33	Good

ST187	Liriodendron tulipifera	Tulip poplar	38	Poor
ST188	Liquidambar styraciflua	Sweet Gum	30	Fair
ST189	Acer rubrum	Red Maple	40	Fair
ST190	Liquidambar styraciflua	Sweet Gum	35	Poor
ST191	Liquidambar styraciflua	Sweet Gum	38	Good
ST192	Liquidambar styraciflua	Sweet Gum	35	Good
ST193	Liquidambar styraciflua	Sweet Gum	35	Fair
ST194	Quercus palustris	Pin Oak	34	Fair
ST195	Liquidambar styraciflua	Sweet Gum	33	Fair
ST196	Liquidambar styraciflua	Sweet Gum	35	Good
ST197	Liquidambar styraciflua	Sweet Gum	37	Good
ST198	Liquidambar styraciflua	Sweet Gum	31	Good/Fair
ST199	Quercus alba	White Oak	34.5	Fair
ST200	Liquidambar styraciflua	Sweet Gum	31	Good
ST201	Liquidambar styraciflua	Sweet Gum	33	Good
ST202	Liquidambar styraciflua	Sweet Gum	31	Good
ST203	Liquidambar styraciflua	Sweet Gum	32	Good
ST204	Liquidambar styraciflua	Sweet Gum	52	Poor
ST205	Liquidambar styraciflua	Sweet Gum	35	Good
ST206	Liquidambar styraciflua	Sweet Gum	36.5	Good
ST207	Liquidambar styraciflua	Sweet Gum	39	Good
ST208	Morus rubra	Red Mulberry	35	Fair