



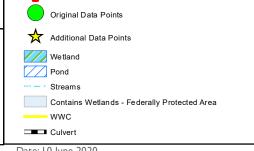
Tennessee State Plane (feet) 4100fips North American Datum 1983

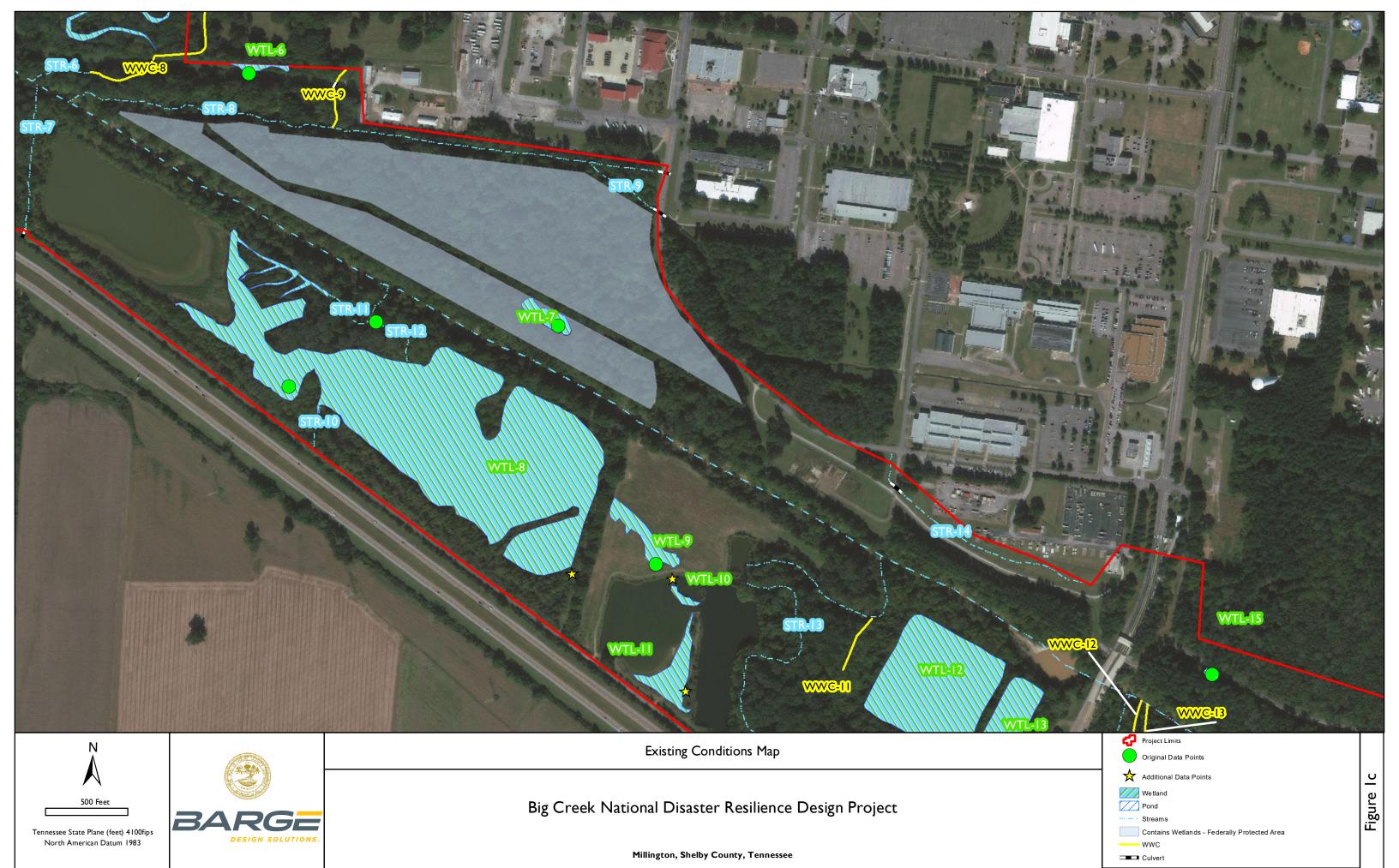


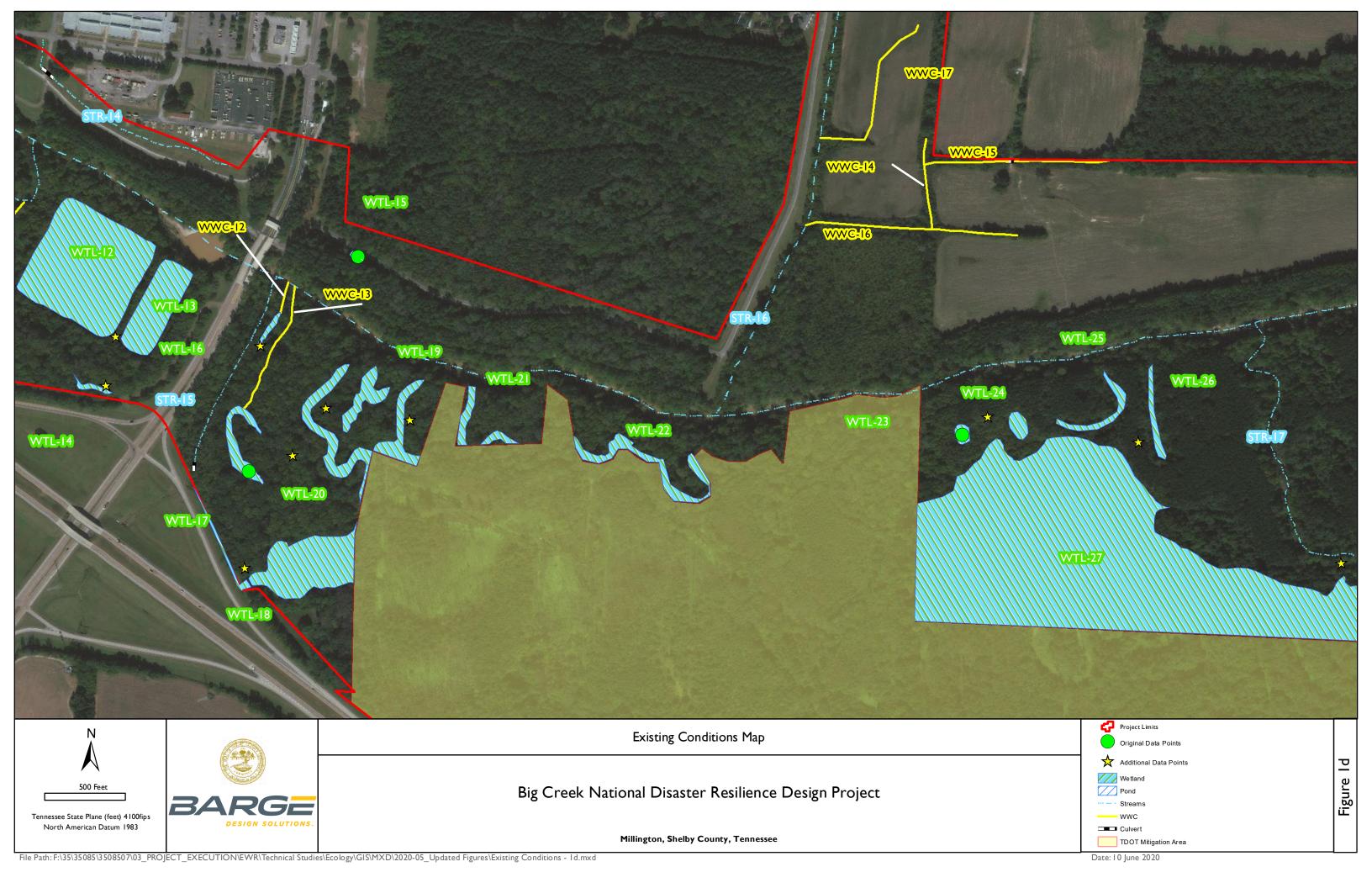
Existing Conditions Map

Big Creek National Disaster Resilience Design Project

Millington, Shelby County, Tennessee











Tennessee State Plane (feet) 4100fips North American Datum 1983

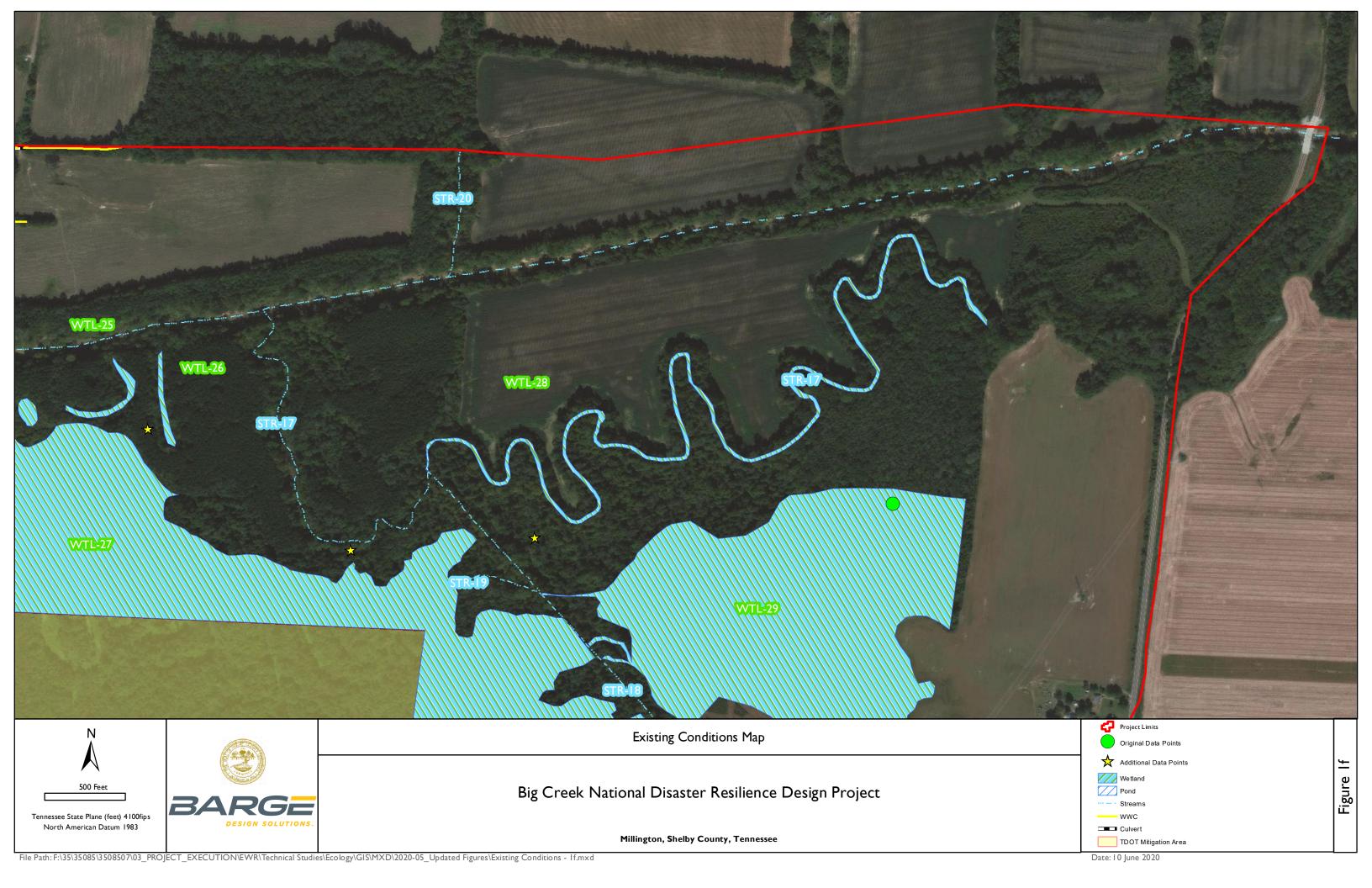


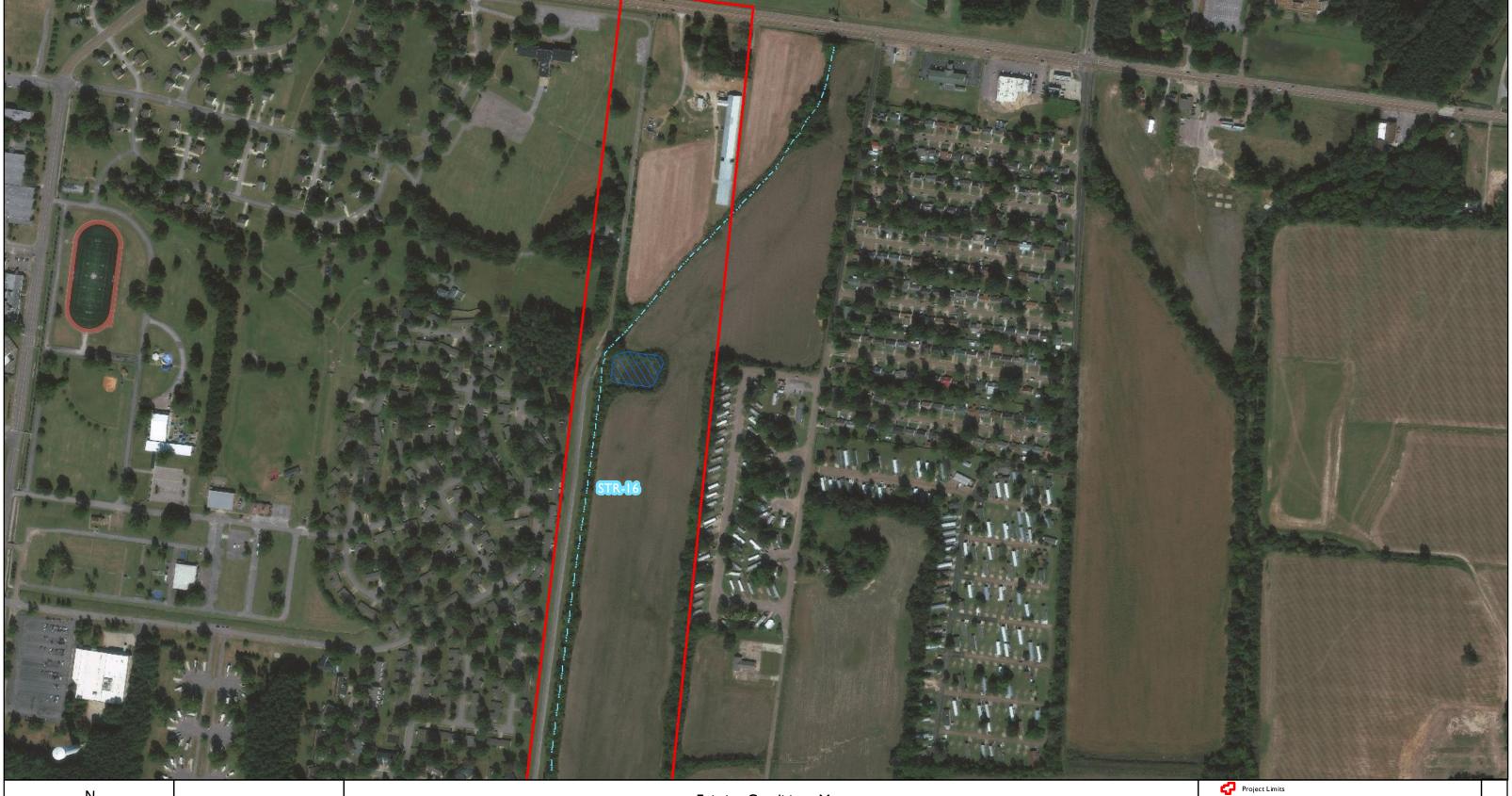
Big Creek National Disaster Resilience Design Project

Millington, Shelby County, Tennessee

Additional Data Points Wetland Pond ··· - · Streams Culvert TDOT Mitigation Area

File Path: F:\35\35085\3508507\03\_PROJECT\_EXECUTION\EWR\Technical Studies\Ecology\GIS\MXD\2020-05\_Updated Figures\Existing Conditions - Ie.mxd







Tennessee State Plane (feet) 4100fips North American Datum 1983



Existing Conditions Map

Big Creek National Disaster Resilience Design Project

Millington, Shelby County, Tennessee

Original Data Points Additional Data Points Wetland Pond Culvert TDOT Mitigation Area

## **Summary of Non-Wetland Waterbodies Big Creek National Disaster Resilience Design Project Estimated Amount Located** in Limits of Waterbody I.D. Description Lat/Long Start Lat/Long End **Comments** Investigation (LF) Feature originates south of project area 35.3343/ STR-1 Intermittent 35.3311 -89.9152 1,428 -89.9158 via culvert under Hwy 385 35.3307/ 35.3339/ STR-2 Intermittent 1,136 -89.9101 -89.9103 35.3349/ 35.3338/ Stream appears to have GW connection STR-3 Perennial 476 at base of storm water structure. -89.9078 -89.9083 35.3314/ 35.3329/ 545 STR-4 Intermittent -89.8969 -89.8968 North Fork Creek. Stream enters and 35.3375/ 35.3330/ STR-5 Perennial 2,452 exits project area at several points. -89.8923 -89.8951 Length includes total LF 35.3324/ 35.3302/ STR-6 Intermittent 356 -89.8896 -89.8907 35.3299/ 35.3322/ Feature originates south of project area STR-7 Intermittent 816 -89.8906 -89.8907 via culvert under Hwy 385 35.3319/ 35.3310/ STR-8 Perennial 3,386 -89.8786 -89.8900 35.3304/ 35.3311/ STR-9 451 Intermittent -89.8788 -89.8801 35.3267/ 35.3272/ STR-10 Intermittent 276 -89.8852 -89.8851 35.3290/ 35.3286/ STR-11 Intermittent 316 Drains the west side of WTL-8 to STR-12 -89.8850 -89.8842 35.3280/ 35.3292/ STR-12 Intermittent 618 Drains the east side of WTL-8 -89.8835 -89.8839



STR-13	Intermittent	35.3217/ -89.8763	35.3252/ -89.8744	3,103	Channel is temporarily interrupted by open-water pond
STR-14	Intermittent	35.3267/ -89.8743	35.3249/ -89.8706	1,342	Possible headwater channel to STR-9
STR-15	Intermittent	35.3201/ -89.8713	35.3231/ -89.8697	1,169	Channel originates south of project area via culvert under Hwy 385
STR-16	Perennial	35.3358/ -89.8561	35.3211/ -89.8613	6,737	
STR-17	Intermittent	35.3203/ -89.8477	35.3228/ -89.8509	2,572	
STR-18	Intermittent	35.3133/ -89.8396	35.3203/ -89.8477	5,357	Extensive channelization
STR-19	Intermittent	35.3186/ -89.8471	35.3185/ -89.8456	523	Tributary to STR-18
STR-20	Perennial	35.3254/ -89.8473	35.3234/ -89.8474	738	Casper Creek
STR-21	Intermittent	<del>35.3372/ -</del> <del>-89.9267</del>	<del>35.3354/</del> <del>-89.9269</del>	<del>732</del>	
STR-22	<del>Perennial</del>	<del>35.3259/ -</del> <del>-89.8306</del>	35.3382/ -89.9506	<del>168</del>	Jakes Creek. Most of resource is outside, but adjacent to, project area.
STR-23	<del>Perennial</del>	35.3429/ -89.9507	35.3384/ -89.9510	<del>1,987</del>	Bear Creek
STR-24	Intermittent	<del>35.2851/ -</del> <del>-89.9191</del>	<del>35.2842/</del> - <del>89.9192</del>	4 <u>12</u>	
STR-25	Intermittent	<del>35.2851/-</del> <del>-89.9173</del>	<del>35.2824/ -</del> - <del>89.9226</del>	<del>1,563</del>	
EPH-1	Ephemeral	35.3330/ -89.9187	35.3312/ - 89.9153	1,626	
EPH-2	Ephemeral	35.3310/ -89.9119	35.3318/ - 89.9116	336	
EPH-3	Ephemeral	35.3334/ -89.9116	35.3335/ - 89.9103	442	



EPH-4	Ephemeral	35.3363/ -89.9069	35.3350/ - 89.9078	544	
EPH-5	Ephemeral	35.3331/ -89.9068	35.3335/ - 89.9102	1,064	
EPH-6	Ephemeral	35.3316/ -89.9003	35.3325/ - 89.9009	404	
EPH-7	Ephemeral	35.3401/ -89.8873	35.3324/ - 89.8896	553	
EPH-8	Ephemeral	35.3325/ -89.8847	35.3316/ - 89.8850	3,420	
EPH-9	Ephemeral	35.3216/ -89.8756	35.3218/ - 89.8762	323	
EPH-10	Ephemeral	35.3235/ -89.8751	35.3242/ - 89.8746	204	
EPH-11	Ephemeral	35.3234/ -89.8751	35.3243/ - 89.8746	336	
EPH-12	Ephemeral	35.3226/ -89.8697	35.3231/ - 89.8695	181	
EPH-13	Ephemeral	35.3212/ -89.8703	35.3230/ - 89.8694	791	
EPH-14	Ephemeral	35.3255/ -89.8574	35.3242/ - 89.8572	521	
EPH-15	Ephemeral	35.3253/ -89.8538	35.3252/ - 89.8574	1,045	
EPH-16	Ephemeral	35.3241/ -89.8555	35.3242/ - 89.8596	1,216	
EPH-17	Ephemeral	35.3274/ -89.8576	35.3256/ <i>-</i> 89.8594	1,021	
EPH-18	Ephemeral	<del>35.3368/ -</del> <del>-89.9306</del>	<del>35.3361/ -</del> <del>89.9318</del>	<del>573</del>	
EPH-19	<del>Ephemeral</del>	<del>35.3367/ -</del> - <del>89.9289</del>	<del>35.3356/ -</del> <del>89.9288</del>	<del>482</del>	



EPH-20	<b>Ephemeral</b>	<del>35.3421/</del>	<del>35.3416/ -</del>	<del>232</del>	
	<b>-</b> p	<del>-89.9516</del>	<del>89.9513</del>		
5011.04	- 1	<del>35.3421/</del>	<del>35.3413/ -</del>	242	
EPH-21	<del>Ephemeral</del>	<del>-89.9513</del>	<del>89.9509</del>	<del>342</del>	
		<del>35.3390/</del>	35.3382/		
EPH-22	<del>Ephemeral</del>	- <del>89.9495</del>	89.9496	<del>419</del>	
EPH-23	<del>Ephemeral</del>	<del>35.3390/</del>	35.3388/	<del>77</del>	
	'	<del>-89.9490</del>	<del>89.9492</del>		
EPH-24	<del>Ephemeral</del>	<del>35.3391/</del>	<del>35.3380/ -</del>	<del>567</del>	
<del>LI II 24</del>	<del>-phemerar</del>	<del>-89.9468</del>	<del>89.9479</del>	<del>507</del>	
5011.05	- 1	<del>35.3402/</del>	<del>35.3375/ -</del>	4.405	
EPH-25	<del>Ephemeral</del>	- <del>89.9432</del>	<del>89.9436</del>	<del>1,185</del>	
		<del>35.3379/</del>	35.3382/ -		
EPH-26	<del>Ephemeral</del>	- <del>89.9423</del>	89.9431	<del>434</del>	
EPH-27	<del>Ephemeral</del>	<del>35.3378/</del>	35.3380/	<del>439</del>	
	'	<del>-89.9418</del>	<del>89.9431</del>		
EPH-28	<del>Ephemeral</del>	<del>35.2882/</del>	<del>35.2851/ -</del>	<del>1,005</del>	
<del>LF11=20</del>	<del>грнетнега:</del>	<del>-89.9191</del>	<del>89.9191</del>	<del>1,003</del>	
		<del>35.2871/</del>	35.2868/		
EPH-29	<del>Ephemeral</del>	-89.9197	89.9192	<del>202</del>	
		<del>35.2877/</del>	<del>35.2851/ -</del>		
EPH-30	<del>Ephemeral</del>	<del>-89.9175</del>	89.9191	<del>1,192</del>	
EPH-31	<del>Ephemeral</del>	<del>35.2867/ -</del>	<del>35.2861/</del>	<del>250</del>	
	'	<del>-89.9188</del>	<del>89.9186</del>		
EPH-32	<del>Ephemeral</del>	<del>35.2856/</del>	<del>35.2847/ -</del>	<del>381</del>	
<del>LITI 32</del>	<del>-pnemerar</del>	<del>-89.9202</del>	<del>89.9198</del>	<del>301</del>	
EDI: 22	- 1	<del>35.2830/</del>	35.2828/	465	
EPH-33	<del>Ephemeral</del>	- <del>89.922</del> 4	89.9223	<del>100</del>	
		<del>35.2827/</del>	<del>35.2826/</del>		
EPH-34	<del>Ephemeral</del>	<del>-89.9232</del>	<del>-89.9225</del>	<del>205</del>	
		<del>"03.3232</del>	<del>-05.5223</del>		



	-Table 2- Summary of Wetlands in Limits of Investigation Weakley County Pipeline Project									
Waterbody I.D.	Description	Lat/Long Start	Area (Acre)	Comments						
WTL-1	Forested Floodplain Wetland	35.3319, -89.9115	1.52							
WTL-2	Forested Floodplain Wetland	35.332289.9088	7.13							
WTL-3	Emergent Wetland	35.3320, -89.8977	0.06							
WTL-4	Forested Floodplain Wetland	35.3314, -89.8956	4.58							
WTL-5	Forested Floodplain Wetland	35.3343, -89.8877	1.00							
WTL-6	Forested Floodplain Wetland	35.3325, -89.8865	0.18							
WTL-7	Shrub/Scrub Wetland	35.3288, -89.8808	0.58							
WTL-8	Forested Floodplain, Shrub/Scrub and Emergent Wetland Complex	35.3284, -89.8864	30.08							
WTL-9	Forested Floodplain and Shrub/Scrub Wetland Complex	35.3255, -89.8792	0.97							
WTL-10	Forested Floodplain and Shrub/Scrub Wetland Complex	35.3245, -89.8782	0.14							
WTL-11	Forested Floodplain and Shrub/Scrub Wetland Complex	35.3234, -89.8782	1.20							



WTL-12	Forested Floodplain and Shrub/Scrub Wetland Complex	35.3233, -89.8733	8.61	
WTL-13	Forested Floodplain and Shrub/Scrub Wetland Complex	35.3227, -89.8720	2.48	
WTL-14	Forested Floodplain and Shrub/Scrub Wetland Complex	35.32135, -89.8732	0.13	
WTL-15	Emergent Wetland	35.3236, -89.8683	0.05	
WTL-16	Forested Floodplain and Emergent Wetland Complex	35.3222, -89.8700	0.12	
WTL-17	Forested Floodplain and Emergent Wetland Complex	35.3203, -89.8704	0.71	
WTL-18	Forested Floodplain and Emergent Wetland Complex	35.3187, -89.8688	3.53	
WTL-19	Forested Floodplain and Emergent Wetland Complex	35.3214, -89.8679	0.73	
WTL-20	Forested Floodplain and Emergent Wetland Complex	35.3204, -89.8672	2.17	
WTL-21	Forested Floodplain and Emergent Wetland Complex	35.3210, -89.8660	0.52	
WTL-22	Forested Floodplain and Emergent Wetland Complex	35.3207, -89.8630	1.16	
WTL-23	Forested Floodplain Wetland	35.3209, -89.8565	0.18	



WTL-24	Forested Floodplain Wetland	35.3211, -89.8554	0.29	
WTL-25	Forested Floodplain Wetland	35.3215, -89.8535	0.48	
WTL-26	Forested Floodplain Wetland	35.3209, -89.8527	0.38	
WTL-27	Forested Floodplain Wetland	35.3155, -89.8445	130.88	
WTL-28	Forested Floodplain Wetland	35.3229, -89.8372	3.80	
WTL-29	Forested Floodplain Wetland	35.3184, -89.84438	70.85	
WTL-30	Emergent Wetland	35.3349, -89.8882	1.17	
WTL-31	Forested Wetland/ Temporarily Flooded	<del>35.3366, 89.9309</del>	<del>0.01</del>	
WTL-32	Emergent/Forested- Wetland	<del>35.3368, 89.9306</del>	<del>0.79</del>	
WTL-33	Forested Wetland/ Temporarily Flooded	<del>35.3363, 89.9303</del>	0.03	
WTL-34	Forested Wetland/ Temporarily Flooded	<del>35.3367, 89.9287</del>	0.34	
<del>WTL-35</del>	Forested Wetland/- Temporarily Flooded	<del>35.3369, 89.9280</del>	0.04	
WTL-36	Forested Wetland/- Temporarily Flooded	<del>35.3404, 89.9526</del>	<del>0.69</del>	
WTL-37	Forested Wetland/- Temporarily- Flooded	<del>35.3413, 89.9524</del>	<del>0.95</del>	



WTL-38	Forested Wetland/ Temporarily Flooded	<del>35.3416, 89.9520</del>	<del>0.36</del>	
WTL-39	Forested Wetland/ Temporarily Flooded	<del>35.3412, -89.9516</del>	0.05	
WTL-40	Forested Wetland/ Temporarily Flooded	<del>35.3415, 89.9515</del>	<del>0.02</del>	
<del>WTL-41</del>	Forested Wetland/ Temporarily Flooded	<del>35.3398, 89.9470</del>	0.08	
<del>WTL-42</del>	Forested Wetland/ Temporarily Flooded	<del>35.3383, 89.9458</del>	<del>0.05</del>	
<del>WTL-43</del>	Forested Wetland/ Temporarily Flooded	<del>35.3383, 89.9444</del>	0.08	
WTL-44	Forested Wetland/ Temporarily Flooded	<del>35.3377, 89.9411</del>	<del>1.25</del>	
WTL-45	Emergent/ Forested Wetland	<del>35.3383, 899393</del>	0.19	
WTL-46	Emergent/ Forested Wetland	<del>35.3376, 89.9394</del>	<del>0.32</del>	
WTL-47	Forested Wetland/ Temporarily Flooded	<del>35.2886, 89.9201</del>	0.38	
WTL-48	Forested Floodplain Wetland	<del>35.2888, 89.9196</del>	<del>0.31</del>	Located outside of project area.
WTL-49	Forested Floodplain Wetland	<del>35.2878, 89.9175</del>	0.04	
WTL-50	Forested Floodplain- Wetland	<del>35.2871, 89.9191</del>	0.09	



WTL-51	Forested Floodplain Wetland	<del>35.2862, -89.9183</del>	<del>0.05</del>	
WTL-52	Forested Floodplain Wetland	<del>35.2855, -89.9193</del>	0.63	
WTL-53	Forested Floodplain Wetland	<del>35.2842, -89.9175</del>	0.003	
WTL-54	Forested Floodplain Wetland	<del>35.2841, -89.9206</del>	0.43	
WTL-55	Forested Floodplain Wetland	<del>36.3060, -88.7073</del>	<del>0.16</del>	
WTL-56	Forested Floodplain Wetland	<del>36.3054, -88.7075</del>	0.84	



Project/Site: Big Creek	City/County: Millington	/ Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-1
Investigator(s): FCA, NJC	ection, Township, Range:		
Landform (hillside, terrace, etc.): Terrace Local	al relief (concave, convex,	none): Convex	Slope (%):0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.332136	Long: -8	39.911708	Datum: NAD83
Soil Map Unit Name: Ca: Calloway silt loam, 0 to 2 percent slopes		NWI classifica	tion: N/A
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes X		explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dist		ircumstances" present	
Are Vegetation , Soil , or Hydrology naturally problem		olain any answers in Re	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS – Attach site map showing sa		ons, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland?	Yes	No_X_
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Marl Deposits (Check all that apply)  Aquatic Fauna (B13)  Marl Deposits (B15) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	or (C1) s on Living Roots (C3) Iron (C4) n in Tilled Soils (C6) 7)	Surface Soil Crac Sparsely Vegetate Drainage Patterns Moss Trim Lines Dry-Season Wate Crayfish Burrows	ed Concave Surface (B8) s (B10) (B16) er Table (C2) (C8) e on Aerial Imagery (C9) tion (D2)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test	` '
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) <b>(LRR T,U)</b>
Field Observations:  Surface Water Present? Yes No X Depth (inches Water Table Present? Yes No X Depth (inches Saturation Present? Yes No X Depth (inches (includes capillary fringe)	s):	Hydrology Present?	Yes NoX_
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if a	vailable:	
Remarks: No positive indicators of hydrology in the Upland plot			

**VEGETATION** (Four Strata) – Use scientific names of plants. Sampling Point: UPL-1 Absolute Dominant Indicator % Cover Species? <u>Tree Stratum</u> (Plot size: 30-feet ) Status **Dominance Test worksheet:** Populus deltoides 1. 25 Yes **FACU Number of Dominant Species** 2. Platanus occidentalis 30 Yes **FACW** That Are OBL, FACW, or FAC: (A) 3. Acer rubrum 10 No FAC **Total Number of Dominant** 4. 20 **FACU** Celtis occidentalis Yes Species Across All Strata: 8 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 25.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: 85 =Total Cover \_\_\_\_ x 1 = **OBL** species **FACW** species 50% of total cover: 20% of total cover: x 2 =Sapling/Shrub Stratum (Plot size: \_\_\_\_15-feet \_\_\_) FAC species 30 90 x 3 = Cornus florida 75 UPL **FACU** species x 4 = 300 1. Yes 2. Lonicera tatarica 10 Yes **FACU UPL** species 15 x 5 = 75 (B) 3. Celtis occidentalis 10 Yes **FACU** Column Totals: 150 (A) 525 4. Prevalence Index = B/A =5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 35 =Total Cover Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 5-feet ) Lonicera japonica 1. 10 **FACU** Yes <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Ligustrum sinense Yes FAC 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 30 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 15 Woody Vine Stratum (Plot size: 15-feet ) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: UPL-1

Profile Desc	cription: (Describe t	o the depth	needed to docu	ıment th	ne indica	tor or co	onfirm the abse	nce of indic	cators.)		
Depth	Matrix		Redox	k Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks	
0-3	10YR 3/2	100					Loamy/Claye				
3-18	10YR 5/4	100					Loamy/Claye	y			
	·										
								<del></del>			
	oncentration, D=Deple					Grains.			e Lining, M=M		
_	Indicators: (Applicat	ole to all LR			-				blematic Hyd	ric Soils*:	
Histosol	` '	-	Thin Dark Su			-		cm Muck (As			
	pipedon (A2)	-	Barrier Island			12)		cm Muck (A	, .		
	stic (A3)		(MLRA 15	•	•	DD 0\		oast Prairie F (outside ML	, ,		
	n Sulfide (A4) d Layers (A5)	-	Loamy Muck Loamy Gleye			KK U)	•	educed Verti	,		
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma		(, _)				.RA 150A, 150	)B)	
	icky Mineral (A7) <b>(LR</b>	-	Redox Dark		(F6)					7 19) <b>(LRR P, T)</b>	
Muck Pr	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Ar	nomalous Br	ight Floodplair	Soils (F20)	
1 cm Mu	ick (A9) (LRR P, T)	_	Redox Depre	essions (	(F8)			(MLRA 153E	3)		
Depleted	d Below Dark Surface	(A11)	Marl (F10) <b>(L</b>			Red Parent Material (F21)					
	ark Surface (A12)	-	Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)				
	rairie Redox (A16) (M	· -	Iron-Mangan								
	fucky Mineral (S1) <b>(Li</b>	RR O, S)	Umbric Surfa			-	Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D)				
	Gleyed Matrix (S4)	-	Delta Ochric			-			-		
	ledox (S5) Matrix (S6)	-	Reduced Ver Piedmont Flo	•			· —	ner (Expiain	in Remarks)		
	rface (S7) <b>(LRR P, S,</b>	т и)	Anomalous E				-				
	e Below Surface (S8)	-	(MLRA 14	-				ndicators of h	nydrophytic ve	getation and	
	S, T, U)		•				wetland hydrology must be present,				
,	,	-	Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154)					unless disturbed or problematic.			
Restrictive I	Layer (if observed):										
Type:											
Depth (in	nches):						Hydric Soil F	Present?	Yes	NoX	
Remarks: This data for Version 8.0,	m is revised from Atla 2016	antic and Gu	lf Coastal Plain F	≀egional	Supplem	ent Vers	sion 2.0 to includ	e the NRCS	Field Indicato	rs of Hydric Soils,	

Project/Site: Big Creek	City/County: Milli	ington / Shelby Co	Sampling Date: 01/29/2020			
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-2			
Investigator(s): FCA, NJC	Section, Township, Ra	ange:				
Landform (hillside, terrace, etc.): Terrace		nvex, none): Convex	Slope (%): 0-1%			
Subregion (LRR or MLRA): LRR P, MLRA 13	4 Lat: 35.331943 L	ong: -89.909178	Datum: NAD83			
	to 2 percent slopes, occasionally flooded, brief	duration NWI classifica	ation: N/A			
Are climatic / hydrologic conditions on the site			explain in Remarks.)			
Are Vegetation, Soil, or Hydrole	· · · · · · · · · · · · · · · · · · ·	rmal Circumstances" present				
Are Vegetation, Soil, or Hydrole	<del></del>	ed, explain any answers in Re				
<del></del>	site map showing sampling point lo					
Hydrophytic Vegetation Present?	Yes No X Is the Sampled A	 ∆rea				
, , , ,	Yes No X within a Wetland		No X			
· ·	Yes No X					
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	cks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetate	ed 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 on Living Roots (C		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		e on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remarks)	Geomorphic Posi Shallow Aquitard				
Inundation Visible on Aerial Imagery (B7		FAC-Neutral Test				
Water-Stained Leaves (B9)	'	Sphagnum Moss	` '			
Field Observations:			( -/ (			
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches): We	tland Hydrology Present?	Yes No _ X _			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, moi	nitoring well, aerial photos, previous inspections	s), if available:				
Remarks:  No positive indicators of hydrology in the Upl	and nlot					
The positive indicators of flydrology in the opi	and plot					

**VEGETATION** (Four Strata) – Use scientific names of plants. Sampling Point: UPL-2 Absolute Dominant Indicator % Cover Species? 30-feet Status **Dominance Test worksheet:** <u>Tree Stratum</u> (Plot size: 1. Liriodendron tulipifera 35 Yes **FACU Number of Dominant Species** 2. Platanus occidentalis 35 Yes **FACW** That Are OBL, FACW, or FAC: (A) 3. Acer rubrum 15 No FAC **Total Number of Dominant** 4. 6 Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 33.3% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: 85 =Total Cover \_\_\_\_ x 1 = **OBL** species **FACW** species 50% of total cover: 20% of total cover: x 2 =25 Sapling/Shrub Stratum (Plot size: 15-feet ) FAC species 75 x 3 = 70 Liqustrum sinense FAC **FACU** species x 4 = 280 1. 10 Yes 2. Lonicera tatarica Yes **FACU UPL** species 0 x 5 = 0 (B) 3. Column Totals: 130 (A) 425 4. Prevalence Index = B/A = 3.27 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 20 =Total Cover Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 50% of total cover: 10 20% of total cover: Herb Stratum (Plot size: 5-feet ) Lonicera japonica 1. **FACU** 15 Yes <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Parthenocissus quinquefolia **FACU** 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 25 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 13 Woody Vine Stratum (Plot size: 15-feet ) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: UPL-2

Profile Desc Depth	ription: (Describe t Matrix	o the dept		<b>ıment tl</b> x Featur		ator or co	onfirm the absence of	of indica	ators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rem	narks	
0-5	10YR 3/3	100			.,,,,,		Loamy/Clayey				
5-18	10YR 5/4	100					Loamy/Clayey				
			<del></del>								
¹Type: C=Co	oncentration, D=Depl	etion. RM=	Reduced Matrix. N	 IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location:	PL=Pore	Linina. M=	Matrix.	
	ndicators: (Applical						Indicators				<sup>3</sup> :
Histosol			Thin Dark Su			S, T, U)	1 cm M	luck (A9	(LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A1	0) <b>(LRR S)</b>		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie R	edox (A16)		
Hydroge	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) <b>(L</b>	.RR O)	(outs	ide MLF	RA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	k (F2)		Reduce	ed Vertic	(F18)		
Organic	Bodies (A6) (LRR, P,	, T, U)	Depleted Ma	trix (F3)			,		RA 150A, 15	,	
	cky Mineral (A7) (LR	_	Redox Dark		` '				dplain Soils		
	esence (A8) (LRR U)		Depleted Da						ght Floodpla	in Soils (F	20)
	ck (A9) <b>(LRR P, T)</b>	(444)	Redox Depre		(F8)		(MLRA 153B)				
	Below Dark Surface	(A11)	Marl (F10) (L	-	1) /MI D	A 4E4\	Red Parent Material (F21)  Very Shallow Dark Surface (F22)				
	rk Surface (A12)	I D A 150A	Depleted Oc			-				` '	E4\
	airie Redox (A16) ( <b>M</b> lucky Mineral (S1) <b>(L</b> l		Iron-Mangan Umbric Surfa						RA 138, 152		
	leyed Matrix (S4)	itit 0, 0,	Delta Ochric			-	Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D)				37)
	edox (S5)		Reduced Ve			-					
	Matrix (S6)		Piedmont Flo	,			· — `				
	face (S7) <b>(LRR P, S,</b>	T, U)	Anomalous I	•	`	, •	•				
	e Below Surface (S8)	-	(MLRA 14	-				ors of h	ydrophytic v	egetation a	and
(LRR	S, T, U)		Very Shallow				wetland hydrology must be present,				,
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
Type:											
Depth (in	nches):						Hydric Soil Prese	ent?	Yes	No	X
Remarks: This data for Version 8.0,		antic and G	ulf Coastal Plain F	Regional	Supplen	nent Vers	ion 2.0 to include the	NRCS	Field Indicat	ors of Hyd	ric Soils,

Project/Site: Big Creek	City/County: Millin	ngton / Shelby Co	Sampling Date: 01/29/2020				
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-3				
Investigator(s): FCA, NJC	Section, Township, Rai	nge:					
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, con	ivex, none): Convex	Slope (%):1%				
Subregion (LRR or MLRA): LRR P, MLRA 13	34 Lat: 35.33191 Lo	ong: -89.897562	Datum: NAD83				
· · · · · · · · · · · · · · · · · · ·	to 2 percent slopes, occasionally flooded, brief d		ation: N/A				
Are climatic / hydrologic conditions on the site			explain in Remarks.)				
Are Vegetation, Soil, or Hydrole		mal Circumstances" present					
Are Vegetation, Soil, or Hydrole	ogy naturally problematic? (If needed	d, explain any answers in Re	emarks.)				
<del></del>	site map showing sampling point lo	cations, transects, in	nportant features, etc.				
Hydrophytic Vegetation Present?	Yes No X Is the Sampled A	rea					
, , , ,	Yes No X within a Wetland		No X				
li	Yes No X						
Remarks: Wetland located between a road and urban fi	Il material creating a terrace						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	:ks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)				
—_Water Marks (B1)	Oxidized Rhizospheres on 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) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Geomorphic Position (D2)						
Iron Deposits (B5)Other (Explain in Remarks)Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	)	FAC-Neutral Test Sphagnum Moss	` '				
	<del></del>	Spriagram Moss	(DO) (LKK 1,0)				
Field Observations: Surface Water Present? Yes	No X Depth (inches):						
	No X Depth (inches):						
Saturation Present? Yes		land Hydrology Present?	Yes No X				
(includes capillary fringe)							
	nitoring well, aerial photos, previous inspections)	), if available:					
Remarks:							
No positive indicators of hydrology in the Upl	and plot						

**VEGETATION** (Four Strata) – Use scientific names of plants. Sampling Point: UPL-3 Absolute Dominant Indicator Tree Stratum (Plot size: 30-feet ) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 40.0% (A/B) 7. Prevalence Index worksheet: Total % Cover of: **OBL** species 25 \_\_\_ x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x 2 =0 Sapling/Shrub Stratum (Plot size: \_\_\_\_15-feet \_\_\_) 25 x 3 = FAC species 75 75 1. Populus deltoides FAC FACU species x 4 = 300 Yes 2. Salix nigra UPL species 0 x 5 = 0 3. Column Totals: 125 (A) 400 (B) 4. Prevalence Index = B/A = 3.20 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 50 =Total Cover Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 5-feet ) 1. Solidago altissima 35 **FACU** Yes <sup>1</sup>Indicators of hydric soil and wetland hydrology must be 15 present, unless disturbed or problematic. 2. Eupatorium capillifolium Yes **FACU** 25 3. Sorghum halepense Yes **FACU Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 75 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 38 Woody Vine Stratum (Plot size: 15-feet ) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: UPL-3

Profile Desc Depth	ription: (Describe t Matrix	o the dep		<b>iment th</b> x Feature		ator or co	onfirm the absence o	f indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	Remarks	
0-6	10YR 4/6	100			<del></del>		Loamy/Clayey	grave	el intrusions	
6-18	10YR 5/6	99	10YR 6/6	1	С	<u>—</u>	Loamy/Clayey	Faint redo	x concentrations	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion. RM:	=Reduced Matrix. M	—— IS=Masi	ked San	Grains.	2Location: P	L=Pore Lining, I	M=Matrix.	
	Indicators: (Application)					a Graino.		or Problematic		
Histosol			Thin Dark Su			S, T, U)	1 cm Mu	uck (A9) <b>(LRR O</b>	)	
Histic Ep	pipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm Mu	uck (A10) (LRR \$	S)	
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A1	6)	
Hydroge	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) <b>(L</b>	.RR O)	(outsi	de MLRA 150A)	1	
	l Layers (A5)		Loamy Gleye					d Vertic (F18)		
	Bodies (A6) (LRR, P,	-	Depleted Ma	` ,			•	de MLRA 150A,	•	
	cky Mineral (A7) (LR	-			` '				ils (F19) <b>(LRR P, T)</b>	
	esence (A8) (LRR U)		Depleted Da					_	plain Soils (F20)	
	ck (A9) <b>(LRR P, T)</b> J Below Dark Surface	(Δ11)	Redox Depre		(ГО)		•	A 153B) ent Material (F2	1)	
	Depleted Below Dark Surface (A11) Thick Dark Surface (A12)  Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)					۵ 151)		allow Dark Surfa	′	
	, ,								152A in FL, 154)	
	past Prairie Redox (A16) ( <b>MLRA 150A</b> ) Iron-Manganese Masses (F12) <b>(LRR</b> (andy Mucky Mineral (S1) <b>(LRR 0, S)</b> Umbric Surface (F13) <b>(LRR P, T, U)</b>								oma Matrix (TS7)	
	leyed Matrix (S4)	-, -,	Delta Ochric			-	(MLRA 153B, 153D)			
	edox (S5)		Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)						ks)	
	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>			,	
Dark Su	face (S7) <b>(LRR P, S,</b>	T, U)	Anomalous E	3right Flo	oodplain	Soils (F2	0)			
Polyvalu	olyvalue Below Surface (S8) (MLRA 149A, 153C, 153D)					<sup>3</sup> Indicato	ors of hydrophytic	c vegetation and		
(LRR	S, T, U)		Very Shallow	<i>ı</i> Dark S	urface (F	<sup>-</sup> 22)	wetla	nd hydrology mu	st be present,	
	(MLRA 138, 152A in FL, 154)					unles	s disturbed or pr	oblematic.		
	_ayer (if observed):									
Type: Depth (ir	oches).						Hydric Soil Preser	nt? Yes	No X	
Remarks:							Tryunc con i reser		<u> </u>	
Version 8.0,				legional	Suppler	nent Vers	ion 2.0 to include the	NRCS Field Indi	cators of Hydric Soils,	

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/202
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-4a/4l
Investigator(s): FCA, NJC	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace L	Local relief (concave, convex, none): Convex Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.331739	Long: -89.89429 Datum: NAD83
Soil Map Unit Name: Fm: Falaya silt loam	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	<u> </u>
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland?  Yes No _X
Remarks:	
Wetland located between a road and urban fill material creating a ter	rrace
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1	· · · · · · · · · · · · · · · · · · ·
High Water Table (A2)  Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide (	
1 <del></del>	neres on Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduc	
1 — · · · · · · · — · · · · · · · · · ·	ction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface	
Iron Deposits (B5) Other (Explain in R	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)
Field Observations:	ah aa).
Surface Water Present? Yes No X Depth (inc Water Table Present? Yes No X Depth (inc	
Saturation Present? Yes No _X Depth (includes capillary fringe)	ches):   Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
gaage, memoring nen, aenar pries	iso, p. onodo inopositorio), ii di diidasis.
Remarks:	
No positive indicators of hydrology in the Upland plot	

# **VEGETATION (Four Strata)** – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30-feet )	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	20	Yes	FAC	Number of Dominant Species
2. Ulmus rubra	20	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
3. Populus deltoides	10	No	FAC	Total Number of Deminent
4. Platanus occidentalis	2	No	FACW	Total Number of Dominant Species Across All Strata: 6 (B)
5. Liquidambar styraciflua	10	No	FAC	
<del></del>			TAC	Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	62 :	=Total Cover		OBL species 0 x 1 = 0
50% of total cover:	31 20%	of total cover:	13	FACW species 17 x 2 = 34
Sapling/Shrub Stratum (Plot size: 15-feet	)			FAC species 70 x 3 = 210
1. Lindera benzoin	15	Yes	FACW	FACU species 30 x 4 = 120
2. Ligustrum sinense	10	Yes	FAC	UPL species 0 x 5 = 0
3.				Column Totals: 117 (A) 364 (B)
4.				Prevalence Index = B/A = 3.11
5.				Hydrophytic Vegetation Indicators:
			-	1
6.		-		1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	25 :	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:1	13 20%	of total cover:	5	
Herb Stratum (Plot size: 5-feet )	<u> </u>			
1. Allium vineale	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Lonicera japonica	15	Yes	FACU	present, unless disturbed or problematic.
3.		- 100	17100	Definitions of Four Vegetation Strata:
· · · · · · · · · · · · · · · · · · ·				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of height.
6.				noight.
7				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				j , , ,
10.	<u> </u>			
11.				Herb – All herbaceous (non-woody) plants, regardless
12.	-			of size, and woody plants less than 3.28 ft tall.
12.		=Total Cover		Mandy Vine All woody vines greater than 2.20 ft in
500/ 1/ /			•	Woody Vine – All woody vines greater than 3.28 ft in height.
	15 20%	of total cover:	6	ricigni.
Woody Vine Stratum (Plot size: 15-feet )				
1				
2				
3.				
4.				
5.				
·	<del></del>	=Total Cover		Hydrophytic
FOO/ of total covers				Vegetation
50% of total cover:	20%	of total cover:		Present?
Remarks: (If observed, list morphological adaptatio	ns below.)			

Sampling Point: UPL-4a/4b

SOIL Sampling Point: UPL-4a/4b

	ription: (Describe t	to the dept				ator or co	onfirm the absence	of indic	ators.)		
Depth	Matrix			k Featur		. 2			_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rem	narks	
0-3	10YR 3/2	100					Loamy/Clayey				
3-18	10YR 5/3	100					Loamy/Clayey				
1										<del></del>	
	oncentration, D=Depl					d Grains.			E Lining, M=I		
-	ndicators: (Application (A4)	bie to all L			-	C T II)			•	dric Soils <sup>3</sup> :	
Histosol	, ,		Thin Dark Su Barrier Island	•	, .				) (LRR O)		
Black His	oipedon (A2)		(MLRA 15			12)			0) <b>(LRR S)</b> edox (A16)		
	n Sulfide (A4)		Loamy Muck		-	RR (I)			RA 150A)		
	Layers (A5)		Loamy Gleye	,	· , •		•	ed Vertic	,		
	Bodies (A6) <b>(LRR, P</b>	. T. U)	Depleted Ma							(0B)	
	cky Mineral (A7) (LR	-	Redox Dark				(outside MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (LRR P				
	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20				
	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	.RR U)			Red Pa	arent Ma	terial (F21)		
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) <b>(MLR</b>	A 151)	Very Shallow Dark Surface (F22)				
Coast Pr	airie Redox (A16) ( <b>M</b>	LRA 150A)	Iron-Mangan	ese Ma	sses (F12	2) <b>(LRR C</b>					
Sandy M	lucky Mineral (S1) <b>(L</b>	RR O, S)	Umbric Surfa	ace (F13	3) <b>(LRR F</b>	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) <b>(I</b>	MLRA 15	1)	(MLF	RA 153B	, 153D)		
Sandy R	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 15	<b>50B)</b> Other (	Explain	in Remarks)		
	Matrix (S6)		Piedmont Flo								
	face (S7) <b>(LRR P, S</b> ,	-	Anomalous E	•	•	•	,				
	e Below Surface (S8)	)	(MLRA 14				<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,				
(LRR S, T, U)			Very Shallow		,	,		-		-	
			(MLRA 13	8, 152A	in FL, 1	54)	unie	ss distur	bed or probl	ematic.	
	_ayer (if observed):										
Type:											
Depth (in	nches):						Hydric Soil Prese	ent?	Yes	No_X	
Remarks: This data for Version 8.0,	m is revised from Atla 2016	antic and G	ulf Coastal Plain F	Regional	l Supplen	nent Vers	ion 2.0 to include the	NRCS	Field Indicat	ors of Hydric Soils,	

Project/Site: Big Creek	City/County: Milli	ngton / Shelby Co	Sampling Date: 06/02/2020				
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-8				
Investigator(s): FCA, NJC	Section, Township, Ra	ange:					
Landform (hillside, terrace, etc.): Berm	Local relief (concave, co	nvex, none): Convex	Slope (%): 0-3%				
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35	.32477 Lo	ong: -89.880265	Datum: NAD83				
Soil Map Unit Name: Fm: Falaya silt loam		NWI classifica	etion: N/A				
Are climatic / hydrologic conditions on the site typical for thi	s time of year? Yes		explain in Remarks.)				
Are Vegetation, Soil, or Hydrologysig		mal Circumstances" present					
		•					
Are Vegetation, Soil, or Hydrologyna		ed, explain any answers in R					
SUMMARY OF FINDINGS – Attach site map s	howing sampling point lo	ocations, transects, in	nportant features, etc.				
Hydric Soil Present? Yes N	lo X Is the Sampled A within a Wetland		No_X_				
Remarks:							
Wetlands are seperated by an access road and agricutlrur	al fields						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is required; check all t	hat apply)	Surface Soil Crac					
Surface Water (A1)Aquatic F	Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)  Marl Dep	osits (B15) (LRR U)	Drainage Patterns (B10)					
Saturation (A3) Hydrogen	n Sulfide Odor (C1)	Moss Trim Lines (B16)					
Water Marks (B1) Oxidized	Rhizospheres on Living Roots (C						
	e of Reduced Iron (C4)	Crayfish Burrows					
	ron Reduction in Tilled Soils (C6)		e on Aerial Imagery (C9)				
1 —— · · · · · · · · · · · · · · · · · ·	ck Surface (C7)	Geomorphic Pos					
1 <del></del>	xplain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)					
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		Sphagnum Moss	, ,				
<del></del>		Spriagrium Moss	(DO) (ERR 1,0)				
Field Observations: Surface Water Present? Yes No X	Depth (inches):						
	Depth (inches):						
		land Hydrology Present?	Yes No X				
(includes capillary fringe)			<u></u>				
Describe Recorded Data (stream gauge, monitoring well, a	aerial photos, previous inspections	s), if available:					
Remarks:							
No positive indicators of hydrology in the Upland plot							

**VEGETATION** (Four Strata) – Use scientific names of plants. Sampling Point: UPL-8 Absolute Dominant Indicator % Cover Species? Tree Stratum (Plot size: 30-feet ) Status **Dominance Test worksheet:** 1. Platanus occidentalis 60 Yes **FACW Number of Dominant Species** 2. Quercus rubra 15 No **FACU** That Are OBL, FACW, or FAC: (A) 3. Populus deltoides 20 Yes FAC **Total Number of Dominant** 4. Species Across All Strata: 9 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 55.6% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: 95 =Total Cover **OBL** species x 1 = **FACW** species 50% of total cover: 20% of total cover: x 2 =160 45 Sapling/Shrub Stratum (Plot size: \_\_\_\_15-feet \_\_\_) FAC species 135 x 3 = 85 Lonicera tatarica **FACU FACU** species x 4 = 340 1. 15 No 2. Asimina triloba 25 Yes **FACU UPL** species 0 x 5 = 0 3. Juniperus virginiana 20 Yes FACU Column Totals: 210 (A) 635 (B) 4. Ulmus rubra 20 Yes FAC Prevalence Index = B/A = 3.02 5. 20 **FACW Hydrophytic Vegetation Indicators:** Cornus amomum Yes 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 100 =Total Cover Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 5-feet ) 1. Asimina triloba **FACU** Yes <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Parthenocissus quinquefolia 5 Yes **FACU** 3. Toxicodendron radicans 5 Yes FAC **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 15 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 50% of total cover: 20% of total cover: 8 Woody Vine Stratum (Plot size: 15-feet ) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) prevalence index indicates greater than 3.00

SOIL Sampling Point: UPL-8

Profile Desc	cription: (Describe t	o the dept	th needed to docu	ıment th	ne indica	tor or c	onfirm the absence o	of indicators.)			
Depth	Matrix		Redox	k Featur	es						
(inches)	Color (moist)	%	Color (moist)	_ %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-4	10YR 3/3	100					Loamy/Clayey				
4-12	10YR 5/4	100					Loamy/Clayey				
12-18	10YR 6/3	95	10YR 5/6	5		m	Loamy/Clayey	Distinct redox concentrations			
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	1S=Masl	ked Sand	Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Applical	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Thin Dark Su	ırface (S	9) <b>(LRR</b>	S, T, U)	1 cm Mi	uck (A9) <b>(LRR O)</b>			
Histic Ep	pipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm Mi	uck (A10) (LRR S)			
Black Hi	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck	•	` ' '	RR O)	•	de MLRA 150A)			
	d Layers (A5)		Loamy Gleye					d Vertic (F18)			
	Bodies (A6) (LRR, P,		Depleted Ma					de MLRA 150A, 150B)			
	icky Mineral (A7) (LR	-	Redox Dark		` '			nt Floodplain Soils (F19) (LRR P, T)			
	esence (A8) <b>(LRR U)</b> ıck (A9) <b>(LRR P, T)</b>		Depleted Da  Redox Depre		` '		Anomalous Bright Floodplain Soils (F20)				
	d Below Dark Surface	(A11)	Marl (F10) <b>(L</b>		(10)		(MLRA 153B) Red Parent Material (F21)				
					1) <b>(MLR</b>	A 151)		allow Dark Surface (F22)			
Coast P	rairie Redox (A16) (M	LRA 150A				(outside MLRA 138, 152A in FL, 154					
Sandy M	lucky Mineral (S1) <b>(Li</b>	RR O, S)	Umbric Surfa	Umbric Surface (F13) (LRR P, T, U)  Barrier Islands Low Chroma Mati							
Sandy G	Gleyed Matrix (S4)		Delta Ochric	(F17) <b>(N</b>	MLRA 15	1)	(MLRA 153B, 153D)				
Sandy R	tedox (S5)		Reduced Ve	rtic (F18	) (MLRA	150A, 1	<b>50B)</b> Other (E	Explain in Remarks)			
	Matrix (S6)		Piedmont Flo								
	rface (S7) (LRR P, S,	-	Anomalous E	-							
	e Below Surface (S8)		(MLRA 14		-		<sup>3</sup> Indicators of hydrophytic vegetation and				
(LRR	S, T, U)		Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154)				wetland hydrology must be present, unless disturbed or problematic.				
Restrictive	Restrictive Layer (if observed):										
Type:											
Depth (ii	nches):						Hydric Soil Prese	nt? Yes No X			
Remarks: This data for Version 8.0,		antic and G	Gulf Coastal Plain F	Regional	Supplen	nent Vers	sion 2.0 to include the	NRCS Field Indicators of Hydric Soils,			

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-9/10
Investigator(s): FCA, NJC	Section, Township, Range:
Landform (hillside, terrace, etc.): Berm/Ag Field L	Local relief (concave, convex, none): Convex Slope (%): 0-2%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.324767	Long: -89.878401 Datum: NAD83
Soil Map Unit Name: Fm: Falaya silt loam	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrologysignificantly of	
Are Vegetation, Soil, or Hydrologynaturally prol	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Westland Hydrology Present?  Yes No X	Is the Sampled Area within a Wetland? Yes NoX
Wetland Hydrology Present? Yes No X  Remarks:	
Wetlands are seperated by an access road and agricutlrural fields	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B1	3) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15	5) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide C	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosph	eres on Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduc	
— · · · · · · —	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface	
Iron Deposits (B5) Other (Explain in R	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T,U)
<del></del>	Spriagrum woss (Do) (EKK 1,0)
Field Observations: Surface Water Present? Yes No X Depth (inc	thes):
Water Table Present? Yes No X Depth (inc	· · · · · · · · · · · · · · · · · · ·
Saturation Present? Yes No X Depth (inc	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
No positive indicators of hydrology in the Upland plot	

**VEGETATION** (Four Strata) – Use scientific names of plants. Sampling Point: UPL-9/10 Absolute Dominant Indicator Tree Stratum (Plot size: 30-feet ) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 33.3% (A/B) 7. Prevalence Index worksheet: Total % Cover of: **OBL** species =Total Cover 0 x 1 = 50% of total cover: **FACW** species 0 x 2 = 20% of total cover: Sapling/Shrub Stratum (Plot size: \_\_\_\_15-feet \_\_\_) FAC species 27 x 3 = 81 80 1. Rubus argutus FAC **FACU** species x 4 =320 2. UPL species 0 x 5 = 0 Column Totals: 107 (A) (B) 3. 401 4. Prevalence Index = B/A = 3.75 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 25 =Total Cover Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 50% of total cover: 13 20% of total cover: Herb Stratum (Plot size: 5-feet ) 1. Solidago altissima 45 **FACU** Yes <sup>1</sup>Indicators of hydric soil and wetland hydrology must be 15 present, unless disturbed or problematic. 2. Eupatorium capillifolium No **FACU** 20 3. Sorghum halepense Yes **FACU Definitions of Four Vegetation Strata:** 2 4. Rubus argutus FAC No Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 82 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 41 Woody Vine Stratum (Plot size: 15-feet ) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: UPL-9/10

2) (A4) (A5)		Reduced Matrix, MRRs, unless other Thin Dark St		Type <sup>1</sup> C C	Loc <sup>2</sup> M	Texture  Loamy/Clayey  Loamy/Clayey		concentrations	
on, D=Depl c: (Applica 2)	80 etion, RM=F	Reduced Matrix, N RRs, unless othe Thin Dark St Barrier Island	MS=Mask				Distinct redox	concentrations	
on, D=Depl c: (Applica 2)	80 etion, RM=F	Reduced Matrix, N RRs, unless othe Thin Dark St Barrier Island	MS=Mask		M		Distinct redox	concentrations	
on, D=Depl s: (Applica 2) A4)	etion, RM=F	Reduced Matrix, N RRs, unless othe Thin Dark St Barrier Island	MS=Mask			Loamy/Clayey	Distinct redox	concentrations	
2) (A4) (A5)		RRs, unless othe Thin Dark Su Barrier Island							
2) (A4) (A5)		RRs, unless othe Thin Dark Su Barrier Island							
2) (A4) (A5)		RRs, unless othe Thin Dark Su Barrier Island							
2) (A4) (A5)		RRs, unless othe Thin Dark Su Barrier Island							
2) (A4) (A5)		RRs, unless othe Thin Dark Su Barrier Island		ed Sand					
2) (A4) (A5)		RRs, unless othe Thin Dark Su Barrier Island		ed Sano					
2) (A4) (A5)		RRs, unless othe Thin Dark Su Barrier Island		ked Sand					
2) (A4) (A5)	ble to all LF	Thin Dark Su	erwise n		d Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=	Matrix.	
(A4) (A5)		Barrier Island		oted.)		Indicators for	Problematic Hy	dric Soils³:	
(A4) (A5)			urface (S	9) <b>(LRR</b>	S, T, U)	1 cm Muc	k (A9) <b>(LRR O)</b>		
<b>\</b> 5)			ds 1 cm	Muck (S	12)	2 cm Muc	k (A10) <b>(LRR S)</b>		
<b>\</b> 5)		(MLRA 15		-			irie Redox (A16)		
,		Loamy Muck	•	· / •	RR O)	•	e MLRA 150A)		
^\ /  PP -		Loamy Gleye		(F2)			Vertic (F18)		
6) <b>(LRR, P</b>	-	Depleted Ma	` ,			•	MLRA 150A, 15	•	
al (A7) <b>(LR</b>	-						•	. , ,	
8) (LRR U)	)	<del></del>					omalous Bright Floodplain Soils (F20)  MLRA 153B)		
.RR P, T)	. (						rent Material (F21)		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)  Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)					\ 151\		low Dark Surface	(F22)	
` ,	II RA 150A)				-		• MLRA 138, 152	. ,	
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U)						ands Low Chroma			
rix (S4)	5, 5,				-	(MLRA 153B, 153D)			
(- )		Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D)  Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)					)		
6)		Piedmont Flo	•	. •			,		
(LRR P, S	, T, U)	Anomalous I	Bright Flo	oodplain	Soils (F2	0)			
urface (S8	)	(MLRA 14	9A, 153	C, 153D)		<sup>3</sup> Indicators	ators of hydrophytic vegetation and		
		Very Shallov	w Dark S	urface (F	22)	wetland hydrology must be present,			
		(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.			
bserved):									
						Hydric Soil Present	? Yes	No_X	
ed from Atl	antic and Gu	ulf Coastal Plain F	Regional	Supplen	nent Vers	ion 2.0 to include the N	RCS Field Indicat	ors of Hydric Soils,	

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-11
Investigator(s): FCA, NJC	Section, Township, Range:
Landform (hillside, terrace, etc.): Berm/Terrace Lu	ocal relief (concave, convex, none): Convex Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.323043	Long: -89.878102 Datum: NAD83
Soil Map Unit Name: Fm: Falaya silt loam	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly of	
Are Vegetation, Soil, or HydrologyX _ naturally prob	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes NoX	Is the Sampled Area
Hydric Soil Present?  Wetland Hydrology Present?  Yes  No X  No X	within a Wetland? Yes No X
Remarks: Wetland and pond seperated by a man-made Berm	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	·
Surface Water (A1) Aquatic Fauna (B13	
High Water Table (A2)  Marl Deposits (B15	· · · · · · · · · · · · · · · · · · ·
Saturation (A3) Hydrogen Sulfide C	
	eres on Living Roots (C3)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduc	ed Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduct	tion 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 R	emarks) 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 X Depth (incl	nes):
Water Table Present? Yes No X Depth (incl	nes):
Saturation Present? Yes No X Depth (incl	hes): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
No positive indicators of hydrology in the Upland plot	
The positive indicators of flydrology in the opiana plot	

 VEGETATION (Four Strata) – Use scientific names of plants.
 Sampling Point: UPL-11

 Absolute
 Dominant
 Indicator

<u>Tree Stratum</u> (Plot size: 30-feet )	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus palustris	25	Yes	FACW	Number of Dominant Species
2.				That Are OBL, FACW, or FAC:4 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	25	=Total Cover		OBL species 0 x 1 = 0
50% of total cover:1	3 20%	of total cover:	5	FACW species 55 x 2 = 110
Sapling/Shrub Stratum (Plot size: 15-feet )				FAC species15 x 3 =45
Quercus palustris	5	Yes	FACW	FACU species10 x 4 =40
2				UPL species 0 x 5 = 0
3				Column Totals: 80 (A) 195 (B)
4				Prevalence Index = B/A = 2.44
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	5	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	3 20%	of total cover:	1	
Herb Stratum (Plot size: 5-feet )				
Cinna arundinacea	20	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Populus deltoides	15	Yes	FAC	present, unless disturbed or problematic.
3. Lonicera japonica	5	No	FACU	Definitions of Four Vegetation Strata:
4. Solidago altissima	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Symphyotrichum lanceolatum	5	No	FACW	more in diameter at breast height (DBH), regardless of
6				height.
7				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	50	=Total Cover		<b>Woody Vine</b> – All woody vines greater than 3.28 ft in
	5 20%	of total cover:	10	height.
Woody Vine Stratum (Plot size:15-feet)				
1				
2				
3				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No No
Remarks: (If observed, list morphological adaptation	ns below.)			

SOIL Sampling Point: UPL-11

	Describe to	the depti	h needed to doci	ument th	ne indica	ator or co	onfirm the absence of	of indicators.)
Depth	Matrix	-		x Featur				•
(inches) Color	(moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1 10Y	R 3/3	100					Loamy/Clayey	
1-6 10Y	R 4/3	100					Loamy/Clayey	
6-1810Y	R 5/1	70	10YR 5/6	30	С	M	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Concentration	on, D=Depleti	on, RM=I	Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators	: (Applicable	e to all L	RRs, unless othe	erwise n	oted.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Thin Dark Su	urface (S	9) <b>(LRR</b>	S, T, U)	1 cm M	uck (A9) (LRR O)
Histic Epipedon (A	2)		Barrier Islan	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)
Black Histic (A3)			(MLRA 15	3B, 153	D)		Coast P	Prairie Redox (A16)
Hydrogen Sulfide (	A4)		Loamy Muck	y Minera	al (F1) <b>(L</b>	RR O)	(outs	ide MLRA 150A)
Stratified Layers (A	<b>(5)</b>		Loamy Gley	ed Matrix	(F2)	-	Reduce	d Vertic (F18)
Organic Bodies (A		', U)	Depleted Ma				(outs	ide MLRA 150A, 150B)
5 cm Mucky Miner		-	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)
Muck Presence (A			Depleted Da	rk Surfa	ce (F7)		—— Anomal	ous Bright Floodplain Soils (F20)
1 cm Muck (A9) <b>(L</b>			Redox Depre	essions (	(F8)			A 153B)
Depleted Below Da		A11)	Marl (F10) (I	RR U)	,			rent Material (F21)
Thick Dark Surface	,	,	Depleted Oc	-	1) <b>(MLR</b>	A 151)		nallow Dark Surface (F22)
Coast Prairie Redo	` ,	RA 150A)	<del></del> ·	,	, <b>.</b>	•	<del></del> ·	ide MLRA 138, 152A in FL, 154)
Sandy Mucky Mine	` , `	•	Umbric Surfa					Islands Low Chroma Matrix (TS7)
Sandy Gleyed Mat		-, -,	Delta Ochric			-		A 153B, 153D)
Sandy Redox (S5)	(= .)		Reduced Ve			-		Explain in Remarks)
Stripped Matrix (S6	3)		Piedmont Flo	,	. •		`	,
Dark Surface (S7)		. U)	Anomalous I					
Polyvalue Below S	-	, -,	(MLRA 14	-			· ·	ors of hydrophytic vegetation and
(LRR S, T, U)			Very Shallov	•	. ,			nd hydrology must be present,
(=:::: 0, :, 0,			(MLRA 13					s disturbed or problematic.
Restrictive Layer (if o	bserved):							
Type:								
Depth (inches):							Hydric Soil Prese	nt? Yes No X
Remarks: This data form is revise Version 8.0, 2016	ed from Atlant	tic and G	ulf Coastal Plain F	Regional	Supplen	nent Vers	ion 2.0 to include the	NRCS Field Indicators of Hydric Soils,

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-12/13
Investigator(s): FCA, NJC	Section, Township, Range:
Landform (hillside, terrace, etc.): Berm Loca	al relief (concave, convex, none): Convex Slope (%): 0-3%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.322149	Long: -89.872821 Datum: NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0 to 2 percent slopes, occa	asionally flooded, long duration NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly dist	
Are Vegetation, Soil, or Hydrology naturally problem	
<del></del>	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Is the Sampled Area within a Wetland? Yes NoX_
Wetland Hydrology Present? Yes No X	
Remarks:  Man-made berm isolated both wetland features	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Aquatic Fauna (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  High Water Table (A2)  Marl Deposits (B15) (I	
Saturation (A3)  Hydrogen Sulfide Odd	
	es on Living Roots (C3)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced	
Drift Deposits (B3)  Recent Iron Reduction	
Algal Mat or Crust (B4)  Thin Muck Surface (C	
Iron Deposits (B5) Other (Explain in Rem	
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 X Depth (inches	s):
Water Table Present? Yes No X Depth (inches	
Saturation Present? Yes No X Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:  No positive indicators of hydrology in the Upland plot	
No positive indicators of hydrology in the opiand plot	
1	

۷E	<b>GETATION (Four Strata)</b> – Use scienti	ific	names o	of plants.		Sampling Point: UPL-12/13	ii
Tre	ee Stratum (Plot size: 30-feet )	-	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	Celtis occidentalis		25	Yes	FACU	Number of Dominant Species	
2.	Populus deltoides		20	Yes	FAC	That Are OBL, FACW, or FAC: 3 (A)	
3.	Platanus occidentalis		5	No	FACW	Total Number of Dominant	
4.	Salix nigra		15	No	OBL	Species Across All Strata: 6 (B)	
5.	Liquidambar styraciflua		15	No	FAC	Percent of Dominant Species	
6.						That Are OBL, FACW, or FAC: 50.0% (A/E	5)
7.		_				Prevalence Index worksheet:	
8.						Total % Cover of: Multiply by:	
		_	80 =	Total Cover		OBL species 15 x 1 = 15	
	50% of total cover:	<u> </u>		of total cover:	16	FACW species 5 x 2 = 10	
Sa	pling/Shrub Stratum (Plot size: 15-feet	1		or total dovor.		FAC species 55 x 3 = 165	
<u> </u>	Liquidambar styraciflua	,	10	Yes	FAC	FACU species 55 x 4 = 220	
2.	Elquidambal Styracilida	_	10	163	TAC	UPL species 0 x 5 = 0	
3.		_				· — —	,
		_					"
4.		_					_
5.		_				Hydrophytic Vegetation Indicators:	
6.		_				1 - Rapid Test for Hydrophytic Vegetation	
7.		_				2 - Dominance Test is >50%	
8.		_				3 - Prevalence Index is ≤3.0¹	
		_		=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
	<del></del>	5	20%	of total cover:	2		
He	rb Stratum (Plot size: 5-feet )						
1.	Lonicera japonica	_	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	be
2.	Phytolacca americana	_	15	Yes	FACU	present, unless disturbed or problematic.	_
3.		_				Definitions of Four Vegetation Strata:	
4.		_				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm)	
5.		_				more in diameter at breast height (DBH), regardless of	)f
6.		_				height.	
7.		_				Sapling/Shrub – Woody plants, excluding vines, less	
8.		_				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
9.		_					
10.	·	_				Herb – All herbaceous (non-woody) plants, regardles	
11.		_				of size, and woody plants less than 3.28 ft tall.	٥
12.		_				,	
			30 =	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in	
	50% of total cover:	15	20%	of total cover:	6	height.	
Wo	oody Vine Stratum (Plot size: 15-feet )		_				
1.	Vitis rotundifolia		10	Yes	FAC		
2.							
3.							
4.		_					
5.		_					
		_	10 =	Total Cover		Hydrophytic	
	50% of total cover:	5 <b>—</b>		of total cover:	2	Vegetation Present? Yes No X	
_					<u> </u>		$\dashv$
Re	marks: (If observed, list morphological adaptation	ons b	below.)				

SOIL Sampling Point: UPL-12/13

Depth Matrix Redox Features  (inches) Color (moiet) % Color (moiet) % Type <sup>1</sup>			findicators.)		
·			•		
(inches) Color (moist) % Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-1 10YR 3/3 100		Loamy/Clayey			
1-5 10YR 6/6 100		Loamy/Clayey			
5-18 10YR 4/3 90 10YR 5/1 10 C	M	Loamy/Clayey	Distinct redox concentrations		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked San	d Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators fo	or Problematic Hydric Soils <sup>3</sup> :		
Histosol (A1) Thin Dark Surface (S9) (LRF	R S, T, U)	1 cm Mu	ck (A9) <b>(LRR O)</b>		
Histic Epipedon (A2) Barrier Islands 1 cm Muck (S	S12)	2 cm Mu	ck (A10) <b>(LRR S)</b>		
Black Histic (A3) (MLRA 153B, 153D)		Coast Pr	airie Redox (A16)		
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (I	LRR O)	(outsid	de MLRA 150A)		
Stratified Layers (A5) Loamy Gleyed Matrix (F2)		Reduced	Vertic (F18)		
Organic Bodies (A6) (LRR, P, T, U)  Depleted Matrix (F3)		(outsid	de MLRA 150A, 150B)		
5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6)		Piedmon	t Floodplain Soils (F19) (LRR P, T)		
Muck Presence (A8) (LRR U)  Depleted Dark Surface (F7)		Anomalo	ous Bright Floodplain Soils (F20)		
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8)		(MLRA	( 153B)		
Depleted Below Dark Surface (A11)  Marl (F10) (LRR U)		Red Pare	ent Material (F21)		
Thick Dark Surface (A12)  Depleted Ochric (F11) (MLR	A 151)	Very Sha	allow Dark Surface (F22)		
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F1	2) (LRR (				
Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR		Barrier Islands Low Chroma Matrix (TS7)			
Sandy Gleyed Matrix (S4)  Delta Ochric (F17) (MLRA 1:	51)	(MLRA	153B, 153D)		
Sandy Redox (S5) Reduced Vertic (F18) (MLRA	-		xplain in Remarks)		
Stripped Matrix (S6) Piedmont Floodplain Soils (F	19) <b>(MLR</b>				
Dark Surface (S7) (LRR P, S, T, U)  Anomalous Bright Floodplair					
Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D		· _	rs of hydrophytic vegetation and		
(LRR S, T, U) Very Shallow Dark Surface (	•		nd hydrology must be present,		
(MLRA 138, 152A in FL, 1			disturbed or problematic.		
Restrictive Layer (if observed):					
Type:					
Depth (inches):		Hydric Soil Presen	t? Yes No X		
Remarks: This data form is revised from Atlantic and Gulf Coastal Plain Regional Suppleiversion 8.0, 2016	ment Vers	ion 2.0 to include the N	NRCS Field Indicators of Hydric Soils,		

Project/Site: Big Creek	City/County: Milling	gton / Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-14
Investigator(s): FCA, NJC	Section, Township, Ran	ige:	
Landform (hillside, terrace, etc.): Terrace	 Local relief (concave, conv	/ex, none): Convex	Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 13	4 Lat: 35.321374 Lon	ng: -89.872988	Datum: NAD83
	o to 2 percent slopes, occasionally flooded, long o	duration NWI classifica	ation: PFO1A
Are climatic / hydrologic conditions on the site			explain in Remarks.)
Are Vegetation, Soil, or Hydrold		nal Circumstances" present	
Are Vegetation, Soil, or Hydrold	·	, I, explain any answers in Re	
<u> </u>	site map showing sampling point loc		
Hydrophytic Vegetation Present?	Yes No X Is the Sampled Are	ea	
, , , ,	Yes No X within a Wetland?		No X
	Yes No X		
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			(minimum of two required)
Primary Indicators (minimum of one is require		Surface Soil Crac	, ,
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test	` '
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR 1,U)
Field Observations:	No. V. Donth (inches):		
	No X Depth (inches): No X Depth (inches):		
		and Undrelegy Dresent?	Van Na V
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches): Wetla	and Hydrology Present?	Yes No _X
	itoring well, aerial photos, previous inspections),	if available:	
Bosonise Rosonasa Bata (stream gaage, mor	morning won, derical priotoco, previodo mopeotiono,,	ii avaliabio.	
Remarks:			
No positive indicators of hydrology in the Upla	and plot		

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30-feet</u> )	% Cover	Species?	Status	Dominance Test worksheet:
Celtis laevigata	25	Yes	FACW	Number of Dominant Species
2. Acer rubrum	2	No	FAC	That Are OBL, FACW, or FAC:3 (A)
3. Fraxinus pennsylvanica	35	Yes	FACW	Total Number of Dominant
4. Carya glabra	15	No	FACU	Species Across All Strata: 6 (B)
5. Platanus occidentalis	15	No	FACW	Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7.		·		Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
o	92	=Total Cover		
500/ / /			40	OBL species 0 x1 = 0
	46 20%	of total cover:	19	FACW species 75 x 2 = 150
Sapling/Shrub Stratum (Plot size: 15-feet	)			FAC species14 x 3 =42
1. Carya glabra	10	Yes	FACU	FACU species40 x 4 =160
2. Populus deltoides	2	No	FAC	UPL species 20 x 5 = 100
3. Cornus florida	20	Yes	UPL	Column Totals: 149 (A) 452 (B)
4				Prevalence Index = B/A =3.03
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
o		=Total Cover		<del></del>
500/ / /			_	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	16 20%	of total cover:	7	
Herb Stratum (Plot size: 5-feet )				
Lonicera japonica	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2				present, unless disturbed or problematic.
3				Definitions of Four Vegetation Strata:
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				
8.				Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	15	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	8 20%	of total cover:	3	height.
Woody Vine Stratum (Plot size:15-feet)				
1. Vitis rotundifolia	10	Yes	FAC	
2.				
3.				
4.		<del></del>		
5.				
J		Total Cause		Hydrophytic
		=Total Cover	_	Vegetation
50% of total cover:	5 20%	of total cover:	2	Present?
Remarks: (If observed, list morphological adaptation	ons below.)			

Sampling Point: UPL-14

SOIL Sampling Point: UPL-14

Profile Descri	ption: (Describe to	o the depth	needed to docu	ıment th	ne indica	tor or co	onfirm the absence	of indicate	ors.)	
Depth	Matrix		Redox	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks
0-7	10YR 3/3	100					Loamy/Clayey			
7-18	10YR 4/4	100					Loamy/Clayey			
										-
<del></del> -										
								-		
	centration, D=Deple					Grains.		PL=Pore L		•
-	dicators: (Applicat	ole to all LF			-			s for Proble	•	ric Soils³:
Histosol (A	,	,	Thin Dark Su					Muck (A9) (	-	
Histic Epip		,	Barrier Island			12)		Muck (A10)		
Black Histi	` ,		(MLRA 15	•	•			Prairie Red	, ,	
	Sulfide (A4)	•	Loamy Muck	-		RR O)	•	t <b>side MLR<i>A</i> ced</b> Vertic (I	,	
	ayers (A5) odies (A6) <b>(LRR, P,</b>	T UN	Loamy Gleye Depleted Ma					tside MLRA	,	R)
	ky Mineral (A7) <b>(LRI</b>	-	Redox Dark							19) <b>(LRR P, T)</b>
	sence (A8) <b>(LRR U)</b>		Depleted Da		` '				,	Soils (F20)
·	(A9) <b>(LRR P, T)</b>	•	Redox Depre		` '			RA 153B)		( -,
Depleted E	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	.RR U)				Parent Mate	rial (F21)	
Thick Dark	Surface (A12)		Depleted Oc	hric (F1	1) <b>(MLR</b> A	151)	Very	Shallow Dar	k Surface (	F22)
Coast Prai	rie Redox (A16) (M	LRA 150A)	Iron-Mangan	ese Mas	sses (F12	2) (LRR (	O, P, T) (out	tside MLRA	A 138, 152A	in FL, 154)
Sandy Mu	cky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa	ace (F13	) (LRR P	, T, U)	Barrie	r Islands Lo	w Chroma	Matrix (TS7)
	yed Matrix (S4)		Delta Ochric			-		.RA 153B, 1	-	
Sandy Red			Reduced Ve	,				(Explain in	Remarks)	
Stripped M		T 110	Piedmont Flo							
	ace (S7) (LRR P, S,	-	Anomalous E	-			· _	otoro of bud	lrophytic vo	actation and
Polyvalue (LRR S,	Below Surface (S8)		(MLRA 14 Very Shallow					alors of riyu tland hydrol		getation and
(LIXIX 3,	1, 0)	,	(MLRA 13					ess disturbe	•	•
Restrictive La	yer (if observed):		•		<u> </u>					
Type:	,									
Depth (inc	hes):						Hydric Soil Pres	sent?	Yes	No X
Remarks: This data form Version 8.0, 20	is revised from Atla 016	ntic and Gu	ulf Coastal Plain F	Regional	Supplem	ent Vers	ion 2.0 to include th	e NRCS Fi	eld Indicato	rs of Hydric Soils,

Project/Site: Big Creek	City/County:	: Millington / Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-16
Investigator(s): FCA, NJC	Section, Townshi	ip, Range:	
Landform (hillside, terrace, etc.): Terrace	Local relief (concav	re, convex, none): Convex	Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134	•	Long: -89.87004	Datum: NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0		<u> </u>	tion: N/A
Are climatic / hydrologic conditions on the site to			explain in Remarks.)
Are Vegetation, Soil, or Hydrolo		"Normal Circumstances" present	
Are Vegetation, Soil, or Hydrolo		needed, explain any answers in Re	
SUMMARY OF FINDINGS – Attach s			
Hydrophytic Vegetation Present? Y	es X No Is the Samp	alad Araa	
, , , ,	res No X within a We		No X
	es No X		<u> </u>
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)	Surface Soil Crac	ks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetate	ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	s (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (	
Water Marks (B1)	Oxidized Rhizospheres on Living Roo		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	` '	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutral Test Sphagnum Moss	` '
	——————————————————————————————————————	Spriagrium Moss	(Do) (LKK 1,U)
Field Observations: Surface Water Present? Yes	No. V. Donth (inches):		
l ———	No X Depth (inches):  No X Depth (inches):		
	No X Depth (inches):	Wetland Hydrology Present?	Yes No X
(includes capillary fringe)	Deput (mortes).	Wedana Hydrology i resent:	163 NO _X
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspe	ctions), if available:	
, , ,		,	
Remarks:			
No positive indicators of hydrology in the Upla	nd plot		

۷E	<b>GETATION (Four Strata)</b> – Use scientit	fic names o	of plants.		Sampling Point:	UPL-16	
Tre	ee Stratum (Plot size: 30-feet )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1.	Quercus falcata	25	Yes	FACU	Number of Dominant Species		
2.	Quercus phellos	25	Yes	FACW	That Are OBL, FACW, or FAC:	4 (A	<b>(</b> )
3.	Ulmus rubra	35	Yes	FAC	Total Number of Dominant		
4.	Fraxinus pennsylvanica	25	Yes	FACW	Species Across All Strata:	7 (B	3)
5.	Prunus serotina	5	No	FACU	Percent of Dominant Species		
6.					That Are OBL, FACW, or FAC:	57.1% (A	√B)
7.					Prevalence Index worksheet:		
8.					Total % Cover of:	Multiply by:	
		115 :	=Total Cover		OBL species0 x 1 =	. 0	
	50% of total cover:5	8 20%	of total cover:	23	FACW species 50 x 2 =	100	
Sa	pling/Shrub Stratum (Plot size: 15-feet )				FAC species 57 x 3 =	171	
1.	Ulmus rubra	20	Yes	FAC	FACU species 60 x 4 =	240	
2.	Ligustrum sinense	2	No	FAC	UPL species 0 x 5 =	. 0	
3.					Column Totals: 167 (A)	511	(B)
4.					Prevalence Index = B/A =	3.06	
5.					Hydrophytic Vegetation Indicators	<del></del>	
6.					1 - Rapid Test for Hydrophytic V		
7.					X 2 - Dominance Test is >50%	J	
8.					3 - Prevalence Index is ≤3.0 <sup>1</sup>		
		22 :	=Total Cover		Problematic Hydrophytic Vegeta	ition <sup>1</sup> (Explain)	
	50% of total cover: 1		of total cover:	5		(   )	
He	rb Stratum (Plot size: 5-feet )						
1.	Lonicera japonica	15	Yes	FACU	1		
2.	Rosa multiflora	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland present, unless disturbed or problem		st be
3.	Nood Malimora	10	100	17100	Definitions of Four Vegetation Stra		
3. 4.					1		. \
<del>-</del> . 5.					Tree – Woody plants, excluding vine more in diameter at breast height (D		
6.					height.	2/, . oga. a.oo	J 0.
7.							
7. 8.					Sapling/Shrub – Woody plants, exc		ss
9.					than 3 in. DBH and greater than 3.28	3 ft (1 m) tall.	
10.					Herb – All herbaceous (non-woody)		ess
11.					of size, and woody plants less than 3	3.28 ft tall.	
12.			<del></del>				
			=Total Cover		<b>Woody Vine</b> – All woody vines greatheight.	ter than 3.28 ft	ın
	50% of total cover: 1	5 20%	of total cover:	6	neight.		
	oody Vine Stratum (Plot size:15-feet)						
1.							
2.							
3.							
4.							
5.					Hydrophytic		
		:	=Total Cover		Vegetation		
	50% of total cover:	20%	of total cover:		Present? Yes X No	<b></b>	
Re	marks: (If observed, list morphological adaptation	ns below.)			•		

SOIL Sampling Point: UPL-16

Profile Desc	ription: (Describe t	o the dept	h needed to docu	ment th	ne indica	tor or co	onfirm the absence	of indicators.)	
Depth	Matrix			Featur					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-1	10YR 3/2	100	_				Loamy/Clayey		
1-7	10YR 4/6	100					Loamy/Clayey		
7-18	10YR 5/2	90	10YR 6/6	10	С	М	Loamy/Clayey	Prominent redox concentrations	s
			_						
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masl	ked Sand	Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.	
	ndicators: (Applical							for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Thin Dark Su	rface (S	9) <b>(LRR</b>	S, T, U)	1 cm N	fluck (A9) <b>(LRR O)</b>	
Histic Ep	ipedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm N	fluck (A10) (LRR S)	
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)	
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) <b>(L</b>	RR O)	(outs	side MLRA 150A)	
Stratified	Layers (A5)		Loamy Gleye			•	Reduc	ed Vertic (F18)	
	Bodies (A6) (LRR, P,	T, U)	Depleted Mar		, ,		— (outs	side MLRA 150A, 150B)	
_ `	cky Mineral (A7) (LR		Redox Dark S				Piedmo	ont Floodplain Soils (F19) <b>(LRR P, T</b>	Γ)
	esence (A8) (LRR U)	-	Depleted Dar		` '			llous Bright Floodplain Soils (F20)	•
	ck (A9) <b>(LRR P, T)</b>		Redox Depre		` '			RA 153B)	
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>		()			arent Material (F21)	
	rk Surface (A12)	(****)	Depleted Oct	-	1) <b>(MLR</b>	151)		hallow Dark Surface (F22)	
	airie Redox (A16) ( <b>M</b>	I RA 150A				-		side MLRA 138, 152A in FL, 154)	
	ucky Mineral (S1) <b>(Li</b>		Umbric Surfa		`	, ,	, , ,	Islands Low Chroma Matrix (TS7)	
	leyed Matrix (S4)	0, 0,	Delta Ochric			-		RA 153B, 153D)	
	edox (S5)		Reduced Ver			-		Explain in Remarks)	
	Matrix (S6)		Piedmont Flo	,			<u> </u>	Explain in Remarks)	
	face (S7) <b>(LRR P, S,</b>	T 11\	Anomalous E						
	e Below Surface (S8)			-				tors of hydrophytic vegetation and	
			(MLRA 149						
(LRR S	5, 1, 0)		Very Shallow		,	•		and hydrology must be present, ss disturbed or problematic.	
Restrictive I	.ayer (if observed):		(WLKA 130	5, 132A	III FL, 13	) <del>4</del> )	I unie	ss disturbed of problematic.	
Type:	ayer (ii observed).								
Depth (in	ches):						Hydric Soil Pres	ent? Yes No X	
Remarks: This data form Version 8.0, 2		antic and G	ulf Coastal Plain R	egional	Supplen	nent Vers	sion 2.0 to include the	NRCS Field Indicators of Hydric So	oils,

Project/Site: Big Creek	City/County: Mill	lington / Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-17/20
Investigator(s): FCA, NJC	Section, Township, R	tange:	
Landform (hillside, terrace, etc.): Terrace	 Local relief (concave, co	onvex, none): Convex	Slope (%):0-1%
Subregion (LRR or MLRA): LRR P, MLRA 13-		_ong: -89.86937	Datum: NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0			tion: N/A
Are climatic / hydrologic conditions on the site			explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	—	ormal Circumstances" present	
Are Vegetation, Soil, or Hydrolo		ded, explain any answers in Re	
SUMMARY OF FINDINGS – Attach	<del></del>		
Hydrophytic Vegetation Present?	es X No Is the Sampled	Δrea	
, , , ,	es No X within a Wetland		No X
	ves No X		
Remarks:	•		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crack	
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test	
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) <b>(LRR T,U)</b>
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches): We	etland Hydrology Present?	Yes No _X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspection	s), if available:	
Remarks:	عمام لمص		
No positive indicators of hydrology in the Upla	ina piot		

VEGETATION (Four Strata) – Use scient	Absolute	Dominant	Indicator	Sampling Point: <u>UPL-</u>	-17/20
Tree Stratum (Plot size: 30-feet )	% Cover	Species?	Status	Dominance Test worksheet:	
Liquidambar styraciflua	40	Yes	FAC	Number of Dominant Species	
2. Ulmus rubra	35	Yes	FAC	That Are OBL, FACW, or FAC: 6	(A)
3. Platanus occidentalis	10	No	FACW	Total Number of Dominant	
4				Species Across All Strata: 6	(B)
5				Percent of Dominant Species	
6				That Are OBL, FACW, or FAC: 100.0%	(A/B)
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by	y:
	85	=Total Cover		OBL species 0 x 1 = 0	_
50% of total cover:	43 20%	of total cover:	17	FACW species 35 x 2 = 70	)
Sapling/Shrub Stratum (Plot size: 15-feet	)			FAC species130 x 3 =39	0
1. Lindera benzoin	25	Yes	FACW	FACU species 5 x 4 = 20	)
2. Ulmus rubra	5	No	FAC	UPL species 0 x 5 = 0	
3.				Column Totals: 170 (A) 48	0 (B)
4.				Prevalence Index = B/A = 2.82	
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	า
7.				X 2 - Dominance Test is >50%	
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
·	30	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Ex	nlain)
E00/ of total cover:			6	Floblematic Hydrophytic vegetation (EX	piairi)
<del></del>	15 20%	of total cover:	6		
Herb Stratum (Plot size: 5-feet )		.,			
1. Viola sororia	15	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrolog	gy must be
2. Ligustrum sinense	15	Yes	FAC	present, unless disturbed or problematic.	
3. Lonicera japonica	5	<u>No</u>	FACU	Definitions of Four Vegetation Strata:	
4				Tree – Woody plants, excluding vines, 3 in. (7	
5				more in diameter at breast height (DBH), rega	ardless of
6				height.	
7				Sapling/Shrub – Woody plants, excluding vir	nee leee
8.				than 3 in. DBH and greater than 3.28 ft (1 m)	
9				,	
10				Harle All barbaras as (non-succedus) plants un	
11.				<b>Herb</b> – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tal	-
12.				or size, and woody plants loss than 6.26 it tal	
	35	=Total Cover		Woody Vine – All woody vines greater than 3	3.28 ft in
50% of total cover:	18 20%	of total cover:	7	height.	
Woody Vine Stratum (Plot size: 15-feet )					
1. Vitis rotundifolia	20	Yes	FAC		
2.	,				
3.					
4.		-			
5.	· -	•			
J		=Total Cover		Hydrophytic	
F00/ -f1-1-1			4	Vegetation	
50% of total cover:	10 20%	of total cover:	4	Present? Yes X No No	
Remarks: (If observed, list morphological adaptation	ons below.)				

SOIL Sampling Point: UPL-17/20

ription: (Describe t	to the dept	h needed to doc	ument th	ne indica	ator or co	onfirm the	absence d	of indicators.)			
Matrix	•							,			
Color (moist)	%	Color (moist)	%		Loc <sup>2</sup>	Textu	ıre	Remarks			
10YR 3/3	100	, ,				Loamy/0	Clayey				
10YR 4/3	80	10YR 5/1	20	D	М	Loamy/0	Clayey				
10YR 6/3	75	10YR 5/1	25	D	М	Loamy/0	Clayey				
		10YR 5/6	5	C	M			Distinct redox concentrations			
oncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	2L	ocation: F	PL=Pore Lining, M=Matrix.			
Indicators: (Applica	ble to all L	RRs, unless othe	erwise n	oted.)		In	dicators f	for Problematic Hydric Soils <sup>3</sup> :			
(A1)		Thin Dark S	urface (S	9) <b>(LRR</b>	S, T, U)		_ 1 cm M	uck (A9) (LRR O)			
pipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)	_	2 cm M	uck (A10) (LRR S)			
stic (A3)		(MLRA 15	3B, 153	D)			Coast F	Prairie Redox (A16)			
n Sulfide (A4)		Loamy Muck	ky Minera	al (F1) <b>(L</b>	RR O)		outs	ide MLRA 150A)			
Layers (A5)		Loamy Gley	ed Matrix	(F2)			Reduce	ed Vertic (F18)			
	, T, U)					_	– (outsi	ide MLRA 150A, 150B)			
	-		` ′				•	nt Floodplain Soils (F19) (LRR P, T)			
	-			` '				ous Bright Floodplain Soils (F20)			
· , • •				` '		(MLRA 153B)					
	e (A11)			/			-	rent Material (F21)			
	, (, , , ,		-	1) <b>(MLR</b>	A 151)	_		nallow Dark Surface (F22)			
<del></del>							_ ′	ide MLRA 138, 152A in FL, 154)			
` , `						-, · , · <b>,</b>	•	Islands Low Chroma Matrix (TS7)			
	0, 0,				-	(MLRA 153B, 153D)					
					-						
			•	. •		_		-xpiair iii remaino)			
	T III					-					
	-		-			.0)	<sup>3</sup> Indicate	ors of hydrophytic vegetation and			
	,	•				wetland hydrology must be present,					
3, 1, 0)						unless disturbed or problematic.					
_ayer (if observed):		(MERA 10	, 10 <u>2</u> A					o disturbed of problematic.			
nches):						Hydric S	oil Prese	nt? Yes No _X			
m is revised from Atla 2016	antic and G	ulf Coastal Plain I	Regional	Supplen	nent Vers	sion 2.0 to ir	nclude the	NRCS Field Indicators of Hydric Soils,			
	Matrix Color (moist)  10YR 3/3  10YR 4/3  10YR 6/3  10YR 6/3  concentration, D=Deplet of the properties of the propertie	Matrix Color (moist)  %  10YR 3/3  100  10YR 4/3  80  10YR 6/3  75  Discentration, D=Depletion, RM= Indicators: (Applicable to all L (A1) Injection (A2) In Sulfide (A4) I Layers (A5) Bodies (A6) (LRR, P, T, U) Icky Mineral (A7) (LRR P, T, U) Icky Mineral (A7) (LRR P, T, U) In Below Dark Surface (A11) In Surface (A12) In Sulfide (A4) I Layers (A5) I Layers (A16) (MLRA 150A) I Layers (A5) I Layers (A	Matrix Redo Color (moist) % Color (moist)  10YR 3/3 100  10YR 4/3 80 10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/6  10YR 5/6  10YR 5/1  10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/1  10YR 5/1  10YR 5/1  10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/1  10YR 5/1  10YR 5/1  10YR 5/1  10YR 5/1  10YR 5/6  10YR 5/6  10YR 5/8  10YR 5/1  10YR 5/1  10YR 5/6  10YR 5/1  10YR 5/	Matrix Redox Feature Color (moist) % Color (moist) %  10YR 3/3 100  10YR 4/3 80 10YR 5/1 20  10YR 5/6 5  10YR 5/1 20  10YR 5/1 20  10YR 5/6 5  10YR 5/4 20  10YR 5	Matrix	Matrix	Matrix	Color (moist)			

Project/Site: Big Creek	City/County: Millington	/ Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-18
Investigator(s): FCA, NJC	Section, Township, Range:		
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, convex, r	none): Convex	Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35	5.318556 Long: -8	9.870240	Datum: NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0 to 2 percer			tion: N/A
Are climatic / hydrologic conditions on the site typical for the			explain in Remarks.)
Are Vegetation, Soil, or Hydrologysi		ircumstances" present	
		•	
Are Vegetation, Soil, or Hydrologyna		plain any answers in Re	•
SUMMARY OF FINDINGS – Attach site map	showing sampling point location	ons, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area		
<u> </u>	No X within a Wetland?	Yes	No X
	No X		
Remarks:	<del></del>		
upland are has an elevated path for off-road vehicles			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required; check all	that apply)	Surface Soil Crack	ks (B6)
Surface Water (A1) Aquatic	Fauna (B13)	Sparsely Vegetate	ed Concave Surface (B8)
High Water Table (A2) Marl De	posits (B15) (LRR U)	Drainage Patterns	s (B10)
Saturation (A3) Hydroge	en Sulfide Odor (C1)	Moss Trim Lines (	(B16)
Water Marks (B1) Oxidized	d Rhizospheres on Living Roots (C3)	Dry-Season Wate	r Table (C2)
Sediment Deposits (B2) Presence	e of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3) Recent	Iron Reduction in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
<del></del>	ck Surface (C7)	Geomorphic Posit	
	explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test	` '
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) <b>(LRR T,U)</b>
Field Observations:			
Surface Water Present? Yes No X	Depth (inches):		
Water Table Present? Yes No X	Depth (inches):		<b>V N</b> V
Saturation Present? Yes No X	Depth (inches): Wetland F	Hydrology Present?	Yes No _X_
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections) if av	vailable:	
bescribe recorded bata (stream gauge, monitoring well,	acital priotos, previous inspections), il av	allabic.	
Remarks:			
No positive indicators of hydrology in the Upland plot			

VEGETATION (Four Strata) – Use scienti	fic names	of plants.		Sampling Point:	UPL-18
Tree Stratum (Plot size: 30-feet )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Quercus alba	30	Yes	FACU	Number of Dominant Species	
2. Juglans nigra	35	Yes	UPL	That Are OBL, FACW, or FAC:	4 (A)
3. Ulmus rubra	20	Yes	FAC	Total Number of Dominant	
4. Liquidambar styraciflua	10	No	FAC	Species Across All Strata:	7 (B)
5				Percent of Dominant Species	
6.				That Are OBL, FACW, or FAC:	57.1% (A/B)
7				Prevalence Index worksheet:	
8.				Total % Cover of: M	lultiply by:
	95	=Total Cover		OBL species0 x 1 =	0
50% of total cover:4	8 20%	of total cover:	19	FACW species 15 x 2 =	30
Sapling/Shrub Stratum (Plot size: 15-feet )				FAC species 70 x 3 =	210
1. Cornus florida	35	Yes	UPL	FACU species 30 x 4 =	120
2. Ligustrum sinense	5	No	FAC	UPL species 70 x 5 =	350
3.			,	Column Totals: 185 (A)	710 (B)
4.				Prevalence Index = B/A =	3.84
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Ve	
7				X 2 - Dominance Test is >50%	<b>J</b>
8.				3 - Prevalence Index is ≤3.0¹	
·	40	=Total Cover		Problematic Hydrophytic Vegetat	ion <sup>1</sup> (Explain)
50% of total cover: 2		of total cover:	8	Troblematio Hydrophytic Vegetat	ion (Explain)
Herb Stratum (Plot size: 5-feet )	2070	or total cover.			
	15	Yes	FACW	1.	
1. Arundinaria gigantea				<sup>1</sup> Indicators of hydric soil and wetland	
2. <u>Ligustrum sinense</u>	15	Yes	FAC	present, unless disturbed or problems	
3.				Definitions of Four Vegetation Stra	
4				Tree – Woody plants, excluding vines	
5 6.				more in diameter at breast height (DE height.	sh), regardless of
7.					
8.				Sapling/Shrub – Woody plants, excl	
				than 3 in. DBH and greater than 3.28	ft (1 m) tall.
9.					
10.				Herb – All herbaceous (non-woody) p	olants, regardless
11.				of size, and woody plants less than 3	.28 ft tall.
12				l	
		=Total Cover		<b>Woody Vine</b> – All woody vines greate height.	er than 3.28 ft in
	5 20%	of total cover:	6	neignt.	
Woody Vine Stratum (Plot size:15-feet)					
1. Vitis rotundifolia	20	Yes	FAC		
2.					
3.					
4.					
5.				Hydrophytic	
<u> </u>	20 :	=Total Cover		Vegetation	
50% of total cover: 1	0 20%	of total cover:	4	Present? Yes X No	
Remarks: (If observed, list morphological adaptation	ns helow \			<u> </u>	
nemarks. (ii observeu, list morphological adaptatio	no Delow.)				
					ĺ

SOIL Sampling Point: UPL-18

Profile Desc Depth	cription: (Describe to Matrix	to the dept		<b>ıment tl</b> x Featur		ator or co	onfirm the absence o	of indic	ators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Ren	narks	
0-7	10YR 3/3	100					Loamy/Clayey				
7-18	10YR 6/3	60	10YR 6/6	5	С	M	Loamy/Clayey	Di	stinct redox	concentration	ons
			10YR 3/3	25		M			Mo	ttling	
			10YR 5/2	10				F	aint redox o	concentration	ns
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	IS=Mas	ked San	d Grains.	<sup>2</sup> Location: F	PL=Pore	e Lining, M=	Matrix.	
	Indicators: (Applica						Indicators				=
Histosol	(A1)		Thin Dark Su	ırface (S	9) <b>(LRR</b>	S, T, U)	1 cm M	uck (A9	) (LRR O)		
Histic Ep	oipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	uck (A1	0) <b>(LRR S)</b>		
Black Hi	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	rairie R	edox (A16)		
Hydroge	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) <b>(L</b>	.RR O)	(outs	ide MLI	RA 150A)		
Stratified	d Layers (A5)		Loamy Gleye	ed Matrix	x (F2)		Reduce	d Vertic	(F18)		
Organic	Bodies (A6) (LRR, P	, T, U)	Depleted Ma	trix (F3)			(outs	ide MLI	RA 150A, 15	50B)	
5 cm Mu	ıcky Mineral (A7) <b>(LR</b>	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floo	dplain Soils	(F19) <b>(LRR</b>	P, T)
Muck Pr	Muck Presence (A8) (LRR U)  Depleted Dark Surface (F7)  Anomalous Bright Floodpla							in Soils (F2	.0)		
1 cm Mu	1 cm Muck (A9) (LRR P, T) Redox Depressions (F8)						(MLR	A 153B	)		
Depleted	Depleted Below Dark Surface (A11)  Marl (F10) (LRR U)						Red Pa	rent Ma	terial (F21)		
Thick Dark Surface (A12)  Depleted Ochric (F11) (MLRA 151)						Very Sh	nallow D	ark Surface	(F22)		
Coast Pr	Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O,						D, P, T) (outs	ide MLI	RA 138, 152	A in FL, 15	4)
	Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U)							Islands	Low Chrom	a Matrix (TS	57)
	Gleyed Matrix (S4)		Delta Ochric	-	(MLR	A 153B	, 153D)	`	,		
	Sandy Redox (S5)  Reduced Vertic (F18) (MLRA 150A, 150B)  Other (Explain in Remains						in Remarks)	)			
	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>			,		
	rface (S7) (LRR P, S	. T. U)	Anomalous E	•	`	, ,	•				
	e Below Surface (S8		(MLRA 14	U	•	`	,	ors of h	vdrophytic v	egetation ar	nd
	S, T, U)	,	Very Shallow						rology must	-	
(=::::	-, -, -,		(MLRA 13		`	,		-	bed or prob		
	Layer (if observed):										
Type:	achae):						Hydric Soil Prese	nt?	Vos	No. \	<b>v</b>
Depth (ir Remarks:	iches).						nyunc son Frese	iii ?	Yes	No_>	<u>`</u>
Version 8.0,		antic and G	ulf Coastal Plain R	Regional	Suppler	nent Vers	ion 2.0 to include the	NRCS	Field Indica	ors of Hydri	c Soils,

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 0	01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point:	UPL-19/20
Investigator(s): FCA, NJC	ection, Township, Range:	
Landform (hillside, terrace, etc.): Terrace Loca	I relief (concave, convex, none): Convex Slope (%):	0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.321103	Long: -89.868756 Datum: N	NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0 to 2 percent slopes, occas	sionally flooded, long duration NWI classification: N/A	
Are climatic / hydrologic conditions on the site typical for this time of year		.)
Are Vegetation, Soil, or Hydrology significantly distu		
Are Vegetation , Soil , or Hydrology naturally problem		
SUMMARY OF FINDINGS – Attach site map showing sa		es, etc.
Hydrophytic Vegetation Present?         Yes	Is the Sampled Area within a Wetland?  Yes No _X	
Wetland Hydrology Present? Yes No X	<del></del>	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two re	quired)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)	
Surface Water (A1) — Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface	e (B8)
High Water Table (A2)  Marl Deposits (B15) (L		
Saturation (A3) Hydrogen Sulfide Odor		
Water Marks (B1) Oxidized Rhizospheres		
Sediment Deposits (B2)  Presence of Reduced  Presence of Reduced		(C0)
Drift Deposits (B3) Recent Iron Reduction Algal Mat or Crust (B4) Thin Muck Surface (C7		(C9)
Iron Deposits (B5)  Other (Explain in Remains)		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)	
Field Observations:	<u> </u>	
Surface Water Present? Yes No _X Depth (inches	):	
Water Table Present? Yes No X Depth (inches	):	
Saturation Present? Yes No X Depth (inches	): Wetland Hydrology Present? Yes	No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:	
Remarks:		
No positive indicators of hydrology in the Upland plot		

<u>Tree Stratum</u> (Plot size: 30-feet )					
		bsolute 6 Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Carya glabra		20	Yes	FACU	Number of Dominant Species
2. Fraxinus americana		35	Yes	FACU	That Are OBL, FACW, or FAC: 3 (A)
3. Ulmus rubra		25	Yes	FAC	Total Number of Dominant
4.					Species Across All Strata: 7 (B)
5					Percent of Dominant Species
6.					That Are OBL, FACW, or FAC: 42.9% (A/B)
7					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
			Total Cover		OBL species 0 x 1 = 0
50% of total cover:	40	20%	of total cover:	16	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 15-feet	_)				FAC species 85 x 3 = 255
1. Cornus florida		15	Yes	UPL	FACU species65
2. Ligustrum sinense		35	Yes	FAC	UPL species15 x 5 =75
3. Populus deltoides		5	No	FAC	Column Totals: 165 (A) 590 (B)
4.					Prevalence Index = B/A = 3.58
5					Hydrophytic Vegetation Indicators:
6.					1 - Rapid Test for Hydrophytic Vegetation
7.					2 - Dominance Test is >50%
8					3 - Prevalence Index is ≤3.0 <sup>1</sup>
	_	55 =	Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	28	20%	of total cover:	11	
Herb Stratum (Plot size:5-feet)					
1. Ligustrum sinense		20	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Lonicera japonica		10	Yes	FACU	present, unless disturbed or problematic.
3.					Definitions of Four Vegetation Strata:
4.					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.					more in diameter at breast height (DBH), regardless of
6.		•			height.
7.					
8.					Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.					than 3 in. DBH and greater than 3.26 it (1 iii) tail.
10.					
11.					Herb – All herbaceous (non-woody) plants, regardless
12.					of size, and woody plants less than 3.28 ft tall.
		30 =	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	15	-	of total cover:	6	height.
Woody Vine Stratum (Plot size: 15-feet )		_			
1.					
2.					
3.					
4.					
5.					
0.			Total Cover		Hydrophytic
	_		of total cover:		Vegetation Present? Yes No X
50% of total cover:			or total bover.		11030Ht. 103 10X
50% of total cover:		_			
50% of total cover:Remarks: (If observed, list morphological adaptated)	tions b	_			•
	tions b	_			
	tions b	_			
	tions b	_			

SOIL Sampling Point: UPL-19/20

	cription: (Describe t	to the dep				ator or co	onfirm the absence	of indica	ators.)		
Depth	Matrix			k Featur		. 2			_		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rem	arks	
0-5	10YR 3/3	100					Loamy/Clayey				
5-18	10YR 5/3	100					Loamy/Clayey				
-	-										
1 <sub>Tyrpo:</sub> C-C	oncentration, D=Depl	otion BM	-Paduaad Matrix A		Lod Con	Croins	<sup>2</sup> Logotion:	DI _Dore	Lining, M=I	Motrix	
	Indicators: (Applica					d Grains.				dric Soils <sup>3</sup> :	
Histosol		DIO 10 UII 2	Thin Dark Su		-	S. T. U)			(LRR 0)		
	pipedon (A2)		Barrier Island	•	, .				0) <b>(LRR S)</b>		
	stic (A3)		(MLRA 15			,			edox (A16)		
Hydroge	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) <b>(L</b>	RR O)	(outs	side MLF	RA 150A)		
Stratified	d Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic	(F18)		
Organic	Bodies (A6) (LRR, P	, T, U)	Depleted Ma	trix (F3)			(outs	side MLF	RA 150A, 15	0B)	
	ıcky Mineral (A7) <b>(LR</b>		Redox Dark		` '					F19) <b>(LRR P, T)</b>	
	resence (A8) (LRR U)	)	Depleted Da		` '					in Soils (F20)	
	ick (A9) (LRR P, T)	(0.4.4)	Redox Depre		(F8)		(MLRA 153B)  Red Parent Material (F21)				
Depleted Below Dark Surface (A11) Marl (F10) (LRR U						\ 151\			eriai (F21) ark Surface	(E22)	
Thick Dark Surface (A12)  — Depleted Ochric (F11) (MLRA						-	<del></del> ′			(F22) A in FL, 154)	
	Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U)								•		
	Gleyed Matrix (S4)	5, 5,	Delta Ochric			-	Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D)				
	Redox (S5)		Reduced Ve			-					
	Matrix (S6)		Piedmont Flo	oodplair	Soils (F	19) <b>(MLR</b>			,		
Dark Su	rface (S7) (LRR P, S	, T, U)	Anomalous I	Bright Fl	oodplain	Soils (F2	0)				
Polyvalu	e Below Surface (S8)	)	(MLRA 14	9A, 153	C, 153D)	1	<sup>3</sup> Indica	tors of h	drophytic ve	egetation and	
(LRR	S, T, U)		Very Shallov	Dark S	Surface (F	<sup>-</sup> 22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss distur	bed or probl	ematic.	
Restrictive	Layer (if observed):										
Type:											
Depth (i	nches):						Hydric Soil Prese	ent?	Yes	NoX	
Remarks: This data for Version 8.0,	m is revised from Atla 2016	antic and G	Gulf Coastal Plain F	Regional	l Supplen	nent Vers	ion 2.0 to include the	NRCS I	Field Indicat	ors of Hydric Soils,	

Project/Site: Big Creek	City/County	/: Millington / Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-20/21
Investigator(s): FCA, NJC	Section, Townsh	nip, Range:	
Landform (hillside, terrace, etc.): Terrace	Local relief (conca	ve, convex, none): Convex	Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 13	34 Lat: 35.320952	Long: -89.867136	Datum: NAD83
Soil Map Unit Name: Fm: Falaya silt loam		NWI classifica	ation: N/A
Are climatic / hydrologic conditions on the site	typical for this time of year?		explain in Remarks.)
Are Vegetation, Soil, or Hydrold		e "Normal Circumstances" present	
Are Vegetation, Soil, or Hydrok		needed, explain any answers in Ro	
SUMMARY OF FINDINGS – Attach			
Hydrophytic Vegetation Present?	Yes X No Is the Sam	nlad Araa	
, , , ,	Yes No X within a We		No_X_
	Yes No X		<u></u>
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	<u> </u>
Surface Water (A1)	Aquatic Fauna (B13)		red Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	ots (C3) Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)	)	FAC-Neutral Test	,
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
	No X Depth (inches):		
	No X Depth (inches): Depth (inches):	Wetland Hydrology Present?	Voc. No. Y
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):	Wetiana Hyurology Fresent:	Yes No _X
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	 ections), if available:	
2000120 110001404 2414 (0.10411) 3443-,	moning won, donar priores, provides	ottorio, ii avanab.c.	
Remarks:			
No positive indicators of hydrology in the Upla	and plot		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30-feet )	% Cover	Species?	Status	Dominance Test worksheet:
Liriodendron tulipifera	65	Yes	FACU	Number of Dominant Species
2. Ulmus rubra	15	No	FAC	That Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
5.				``
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
7.				Prevalence Index worksheet:
1.				
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 x 1 = 0
50% of total cover: 4	0 20%	of total cover:	16	FACW species 35 x 2 = 70
Sapling/Shrub Stratum (Plot size: 15-feet )	)			FAC species 65 x 3 = 195
1. Lindera benzoin	35	Yes	FACW	FACU species 65 x 4 = 260
2. Liquidambar styraciflua	10	No	FAC	UPL species0 x 5 =0
3. Ulmus rubra	20	Yes	FAC	Column Totals: 165 (A) 525 (B)
4.				Prevalence Index = B/A = 3.18
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
				1 — · · · · · · · · · · · · · · · · · ·
7.				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	65 :	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 3	20%	of total cover:	13	
Herb Stratum (Plot size: 5-feet )				
1. Ligustrum sinense	10	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Viola sororia	10	Yes	FAC	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4.				
5.				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
· · · · · · · · · · · · · · · · · · ·				height.
6.				
7.				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				of size, and weedy plants less than 6.25 it tall.
	20 :	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 1		of total cover:	4	height.
Woody Vine Stratum (Plot size: 15-feet )	2070	or total cover.		
1.				
2				
3.				
4.				
5.				Hydrophytic
	:	=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No No
Remarks: (If observed, list morphological adaptation	ns below.)			

Sampling Point: UPL-20/21

SOIL Sampling Point: UPL-20/21

	ription: (Describe t	to the dept				ator or co	onfirm the absence	of indicate	ators.)			
Depth	Matrix			k Featur		. 2			_			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rem	narks		
0-7	10YR 3/3	100					Loamy/Clayey					
7-18	10YR 5/3	100					Loamy/Clayey					
1- 0.0							2					
	oncentration, D=Depl					Grains.			E Lining, M=I			
-	ndicators: (Applica	bie to all L			-	C T II)				dric Soils <sup>3</sup> :		
Histosol	ipedon (A2)		Thin Dark Su Barrier Island	•	, .				) (LRR O) 0) (LRR S)			
Black His			(MLRA 15			12)			edox (A16)			
	n Sulfide (A4)		Loamy Muck		-	RR (I)			RA 150A)			
	Layers (A5)		Loamy Gleye	,	· , •		•	ed Vertic	•			
	Bodies (A6) (LRR, P	, T, U)	Depleted Ma						RA 150A, 15	(0B)		
	cky Mineral (A7) (LR	-	Redox Dark				•		•	, (F19) <b>(LRR P, T)</b>		
Muck Pre	esence (A8) (LRR U)	)	Depleted Da	rk Surfa	ce (F7)					in Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)					
Depleted Below Dark Surface (A11)  Marl (F10) (LRR U)							Red Pa	arent Ma	terial (F21)			
Thick Dark Surface (A12) Depleted Ochric (F11) (MLI						A 151)	Very S	hallow D	ark Surface	(F22)		
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRF						2) <b>(LRR C</b>	), P, T) (outs	side MLF	RA 138, 152	A in FL, 154)		
	Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U)									a Matrix (TS7)		
	leyed Matrix (S4)		Delta Ochric			-	(MLRA 153B, 153D)					
	edox (S5)		Reduced Ve	•			· —	Explain	in Remarks)			
	Matrix (S6)		Piedmont Flo									
	face (S7) (LRR P, S	-	Anomalous E	•	•	•	,	toro of b	udranhutia u	agatation and		
	e Below Surface (S8) <b>S, T, U)</b>	)	(MLRA 14 Very Shallow				<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,					
(LINK )	3, 1, 0)		(MLRA 13		,	,		unless disturbed or problematic.				
Postrictivo I	_aver (if observed):		(IIILITA 10	o, 102A		<del></del>	unic	oo alotai	bed of probl	cinatio.		
Type:	-ayer (ii observeu).											
Depth (in	nches).						Hydric Soil Prese	ent?	Yes	No X		
Remarks:							11,4110 00111100					
	m is revised from Atla 2016	antic and G	ulf Coastal Plain F	Regional	l Supplen	nent Vers	ion 2.0 to include the	NRCS	Field Indicat	ors of Hydric Soils,		

Project/Site: Big Creek	City/County: Millin	igton / Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-23/24/27
Investigator(s): FCA, NJC	Section, Township, Rar	nge:	
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, con	vex, none): Convex	Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 13		ng: -89.856056	Datum: NAD83
Soil Map Unit Name: Fm: Falaya silt loam		NWI classifica	ation: N/A
Are climatic / hydrologic conditions on the site	typical for this time of year?		explain in Remarks.)
Are Vegetation, Soil, or Hydrold		mal Circumstances" present	
Are Vegetation, Soil, or Hydrold		d, explain any answers in Re	
<del></del>	site map showing sampling point lo		
Hydrophytic Vegetation Present?	Yes No X Is the Sampled Ar	rea	
, , , ,	Yes No X within a Wetland?		No X
	Yes No X		
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	` '
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
— Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)	1	FAC-Neutral Test	,
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)
Field Observations: Surface Water Present? Yes	No. V. Donth (inches):		
	No X Depth (inches): Depth (inches):		
Saturation Present? Yes		and Hydrology Present?	Yes No X
(includes capillary fringe)	NO X Deptil (iliches).	and rigurology Fresent:	Yes No _X
	nitoring well, aerial photos, previous inspections)	 ). if available:	
		, ii d. a. a. a. a.	
			<u> </u>
Remarks:			
No positive indicators of hydrology in the Upla	and plot		

VEGETATION (Four Strata) – Use scientifi	c names o	of plants.		Sampling Point: UPL-23/24/27
Tree Stratum (Plot size: 30-feet )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus taeda	55	Yes	FAC	Number of Dominant Species
2. Platanus occidentalis	35	Yes	FACW	That Are OBL, FACW, or FAC: 3 (A)
3. Liriodendron tulipifera	15	No	FACU	Total Number of Dominant
4				Species Across All Strata: 6 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
8.				
0.	405	Tatal Cause		
50% of total occurs 50		=Total Cover	0.4	OBL species 0 x 1 = 0
50% of total cover: 53	20%	of total cover:	21	FACW species 60 x 2 = 120
Sapling/Shrub Stratum (Plot size: 15-feet )				FAC species 55 x 3 = 165
Liriodendron tulipifera	15	Yes	FACU	FACU species 47 x 4 = 188
2. Platanus occidentalis	25	Yes	FACW	UPL species0 x 5 =0
3				Column Totals: 162 (A) 473 (B)
4.				Prevalence Index = B/A = 2.92
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	40 =	Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 20	20%	of total cover:	8	<u> </u>
Herb Stratum (Plot size: 5-feet )				
1. Allium vineale	5	Yes	FACU	1
Lonicera japonica	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Quercus rubra	2	No	FACU	Definitions of Four Vegetation Strata:
		INU	FACU	
4.				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.				height.
6				113-9
7				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				, , , , , , , , , , , , , , , , , , , ,
	17 =	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 9	20%	of total cover:	4	height.
Woody Vine Stratum (Plot size: 15-feet )				
1.				
2.				
3.				
4.		-		
5		Tatal Cause		Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes No X
Remarks: (If observed, list morphological adaptation	s below.)			

SOIL Sampling Point: UPL-23/24/27

Profile Desc	ription: (Describe to	o the dep	th needed to docu	ıment tl	he indica	tor or co	onfirm the absence	of indicators.)		
Depth	Matrix			c Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-9	10YR 3/3	100					Loamy/Clayey			
9-18	10YR 4/3	85	10YR 4/1	10	D	M	Loamy/Clayey			
			10YR 5/6	5	C	_M_				
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion RM=	Reduced Matrix, M	IS=Mas	ked Sand	Grains	<sup>2</sup> I ocation:	PL=Pore Lining, M=Matrix.		
	Indicators: (Applicat					· Oranio.		for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Thin Dark Su			S. T. U)		Muck (A9) <b>(LRR O)</b>		
	pipedon (A2)		Barrier Island			-		Muck (A10) (LRR S)		
Black Hi			(MLRA 15		,	,		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck		•	RR O)		side MLRA 150A)		
	Layers (A5)		Loamy Gleye			,	•	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma				— (outs	side MLRA 150A, 150B)		
	cky Mineral (A7) (LRI	-	Redox Dark				Piedmo	ont Floodplain Soils (F19) <b>(LRR P, T)</b>		
	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)			alous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre				(MLF	RA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	.RR U)			Red Pa	arent Material (F21)		
Thick Da	ark Surface (A12)		Depleted Oc	hric (F1	1) <b>(MLR</b>	<b>151</b> )	Very S	hallow Dark Surface (F22)		
Coast Pr	rairie Redox (A16) (M	LRA 150A	) Iron-Mangan	ese Mas	sses (F12	2) <b>(LRR (</b>	D, P, T) (outs	side MLRA 138, 152A in FL, 154)		
Sandy M	lucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ice (F13	3) (LRR P	, T, U)	Barrier	Islands Low Chroma Matrix (TS7)		
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) <b>(</b>	MLRA 15	1)	(MLF	RA 153B, 153D)		
Sandy R	edox (S5)		Reduced Ver	rtic (F18	) (MLRA	150A, 15	<b>50B)</b> Other (	(Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>	A 149A)			
Dark Sui	rface (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	20)			
Polyvalu	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		<sup>3</sup> Indica	tors of hydrophytic vegetation and		
(LRR	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.		
	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Prese	ent? Yes No X		
Remarks: This data for Version 8.0,		entic and G	Gulf Coastal Plain R	Regional	Supplem	nent Vers	sion 2.0 to include the	e NRCS Field Indicators of Hydric Soils,		

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-25/26/27
Investigator(s): FCA, NJC	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace	Local relief (concave, convex, none): Convex Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.320879	Datum: NAD83
Soil Map Unit Name: Fm: Falaya silt loam	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	
Are Vegetation, Soil, or Hydrology naturally p	
	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland? Yes No _X
Remarks:	
HYDROLOGY	
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  No X  Depth (in Muck Surface (B7))  Water Table Present? Yes  No X  Depth (in Mack Surface (B7))  Water Table Present?	B13) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) e Odor (C1) Spheres on Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Succe (C7) Sparsely Vegetated Concave Surface (B8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos, previous inspections), if available:
Remarks: No positive indicators of hydrology in the Upland plot	

VEGETATION (Four Strata) – Use scienti	ific names o	of plants.		Sampling Point: UPL-25/26/27
Tree Stratum (Plot size: 30-feet )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<ol> <li>Pinus taeda</li> <li>Pinus taeda</li> </ol>	98	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant Species Across All Strata: 3 (B)
				· · ·
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	98 =	=Total Cover		OBL species 0 x 1 = 0
50% of total cover:	49 20%	of total cover:	20	FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size: 15-feet	)			FAC species 98 x 3 = 294
Liriodendron tulipifera	35	Yes	FACU	FACU species 35 x 4 = 140
Platanus occidentalis	10	Yes	FACW	UPL species 0 x 5 = 0
3.			17.011	Column Totals: 143 (A) 454 (B)
4.				Prevalence Index = $B/A = 3.17$
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0¹
8	45	T-1-1 0		
		=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	23 20%	of total cover:	9	
Herb Stratum (Plot size: 5-feet )				
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2.	·			present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
6.				height.
7.				
				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9	-			
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	=	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	20%	of total cover:		height.
Woody Vine Stratum (Plot size: 15-feet )				
1.				
2.				
3.		-		
4.				
	·			
5		<del></del>		Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No No
Remarks: (If observed, list morphological adaptatio	ns below.)			•

SOIL Sampling Point: UPL-25/26/27

Profile Desc	cription: (Describe t	o the depth	needed to docu	ıment th	ne indica	tor or co	onfirm the absenc	e of indicators.	.)		
Depth	Matrix		Redox	k Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	_	Remarks		
0-7	10YR 3/3	100					Loamy/Clayey				
7-18	10YR 5/3	100					Loamy/Clayey				
	·										
								_			
	oncentration, D=Deple					Grains.		: PL=Pore Linin	•		
_	Indicators: (Applicat	ole to all LR			-				tic Hydric Soils <sup>3</sup> :		
— Histosol	` '	-	Thin Dark Su					Muck (A9) (LRI	-		
	oipedon (A2) stic (A3)	-	Barrier Island (MLRA 15			12)		Muck (A10) <b>(LF</b>			
	n Sulfide (A4)		Loamy Muck	•	•	RR (I)		st Prairie Redox Itside MLRA 15	` '		
	d Layers (A5)	-	Loamy Gleye			O)	•	iced Vertic (F18	,		
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma		( -)			ıtside MLRA 15	<b>,</b>		
	icky Mineral (A7) <b>(LR</b>	-	Redox Dark		(F6)				Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)	_	Depleted Dai	rk Surfa	ce (F7)		Anon	nalous Bright Flo	oodplain Soils (F20)		
1 cm Mu	ıck (A9) (LRR P, T)	_	Redox Depre	essions (	(F8)		(MI	LRA 153B)			
Depleted	d Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	.RR U)			Red	Parent Material	(F21)		
Thick Da	ark Surface (A12)	_	Depleted Ocl	hric (F1	1) <b>(MLRA</b>	151)	Very Shallow Dark Surface (F22)				
Coast P	rairie Redox (A16) ( <b>M</b>	LRA 150A)	Iron-Mangan	ese Mas	ses (F12	() <b>(LRR (</b>	R O, P, T) (outside MLRA 138, 152A in FL, 154)				
	lucky Mineral (S1) <b>(Li</b>	RR O, S)	Umbric Surfa			-			Chroma Matrix (TS7)		
	Gleyed Matrix (S4)	-	Delta Ochric			-		LRA 153B, 153I	•		
	tedox (S5)	-	Reduced Ver	•				r (Explain in Rer	marks)		
	Matrix (S6)	<b>-</b>	Piedmont Flo								
	rface (S7) <b>(LRR P, S,</b>	-	Anomalous E	-		Solis (F2		notore of budron	bytic vegetation and		
	e Below Surface (S8) <b>S, T, U)</b>		(MLRA 149 Very Shallow			22)			hytic vegetation and must be present,		
(LKK	3, 1, 0)	-	(MLRA 13					less disturbed o	· ·		
Restrictive I	Layer (if observed):		•		•						
Type:	,										
Depth (ir	nches):						Hydric Soil Pre	sent? Ye	es No_X_		
Remarks: This data for Version 8.0,		antic and Gu	lf Coastal Plain R	Regional	Supplem	ent Vers	sion 2.0 to include ti	he NRCS Field I	Indicators of Hydric Soils,		

Project/Site: Big Creek	City/County: Mil	llington / Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-27a
Investigator(s): FCA, NJC	Section, Township, F	Range:	<u>-</u>
Landform (hillside, terrace, etc.): Berm	 Local relief (concave, co	onvex, none): Convex	Slope (%):1-2%
Subregion (LRR or MLRA): LRR P, MLRA 134	4 Lat: 35.311023	Long: -89.838307	Datum: NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0			tion: N/A
Are climatic / hydrologic conditions on the site			explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	· · · · · · · · · · · · · · · · · · ·	ormal Circumstances" present	
Are Vegetation , Soil , or Hydrolo		ded, explain any answers in Re	
SUMMARY OF FINDINGS – Attach s			
Hydrophytic Vegetation Present? Y	es No X Is the Sampled	Δτοα	
, , , ,	ves No X within a Wetlan		No X
	'esNo_X		
Remarks:	<u> </u>	_	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)	Surface Soil Cracl	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (0		
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 Posit	ion (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:			
	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches): We	etland Hydrology Present?	Yes No _X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspection	ns), if available:	
Demonto			
Remarks:  No positive indicators of hydrology in the Upla	and plot		
Two positive indicators of figure 10g, in the Up.	na piot		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30-feet )	% Cover	Species?	Status	Dominance Test worksheet:
Liquidambar styraciflua	25	Yes	FAC	Number of Dominant Species
2. Ulmus rubra	25	Yes	FAC	That Are OBL, FACW, or FAC: 5 (A)
3. Prunus serotina	30	Yes	FACU	Total Number of Dominant
4.				Species Across All Strata: 9 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 55.6% (A/B)
7.				Prevalence Index worksheet:
0				
8.		<del></del>		Total % Cover of: Multiply by:
		Total Cover		OBL species 0 x 1 = 0
50% of total cover:	40 20%	of total cover:	16	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 15-feet	_)			FAC species 85 x 3 = 255
Ligustrum sinense	15	Yes	FAC	FACU species 75 x 4 = 300
2. Acer rubrum	10	Yes	FAC	UPL species 0 x 5 = 0
3. Quercus rubra	10	Yes	FACU	Column Totals: 160 (A) 555 (B)
4.				Prevalence Index = B/A = 3.47
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
	<del></del>			3 - Prevalence Index is ≤3.0¹
8		T-1-1-0		1 <del></del>
		Total Cover	_	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	18 20%	of total cover:	7	
Herb Stratum (Plot size: 5-feet )				
1. Lonicera japonica	25	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Ligustrum sinense	10	Yes	FAC	present, unless disturbed or problematic.
3. Allium vineale	10	Yes	FACU	Definitions of Four Vegetation Strata:
· · · · · · · · · · · · · · · · · · ·				
4.				Tree – Woody plants, excluding vines, 3 in, (7.6 cm) or
4 5.				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. 6.				more in diameter at breast height (DBH), regardless of
5. 6. 7.				more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less
5. 6. 7.				more in diameter at breast height (DBH), regardless of height.
5. 6. 7. 8. 9.				more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less
5. 6. 7. 8. 9.				more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less
5. 6. 7. 8. 9.				more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5. 6. 7. 8. 9. 10.				more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5. 6. 7. 8. 9.		=Total Cover		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
5. 6. 7. 8. 9.	45 =	=Total Cover	9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5. 6. 7. 8. 9. 10. 11. 12.	45 =		9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover:	45 = 23 20% (		9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover:	45 = 23 20% (		9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
5.	45 = 23 20% (		9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
5.	45 = 23 20% (		9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
5.	45 = 23 20% (		9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
5.	45 = 23 20% ·	of total cover:	9	more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.
5.	<u>45</u> = <u>23</u> _ 20% (	of total cover:		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
5.	<u>45</u> = <u>23</u> _ 20% (	of total cover:		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.
5.	45 = 23 20% (	of total cover:		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover:	45 = 23 20% (	of total cover:		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover:	45 = 23 20% (	of total cover:		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover:	45 = 23 20% (	of total cover:		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover:	45 = 23 20% (	of total cover:		more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation

Sampling Point: UPL-27a

SOIL Sampling Point: UPL-27a

	ription: (Describe t	o the dept				ator or co	onfirm the absence	of indic	ators.)		
Depth	Matrix			Featur		. 2			_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rem	arks	
0-5	10YR 3/3	100					Loamy/Clayey				
5-18	10YR 5/3	100					Loamy/Clayey				
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion RM=	Reduced Matrix, M	IS=Mas	ked San	d Grains.	<sup>2</sup> l ocation:	PI =Pore	e Lining, M=ľ		
	ndicators: (Applica								olematic Hy		
Histosol (			Thin Dark Su		-	S, T, U)			) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island			-			0) <b>(LRR S)</b>		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie R	edox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) <b>(L</b>	RR O)	(out	side ML	RA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic	(F18)		
Organic I	Bodies (A6) (LRR, P	, T, U)	Depleted Ma	trix (F3)	)		(out	side MLI	RA 150A, 15	0B)	
	cky Mineral (A7) (LR	-	Redox Dark	Surface	(F6)					F19) <b>(LRR P, T)</b>	
	esence (A8) <b>(LRR U)</b>	)	Depleted Dar		` '			7	•	in Soils (F20)	
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	RA 153B	•		
	Below Dark Surface	e (A11)	Marl (F10) <b>(L</b>	-	A) (141 B)		Red Parent Material (F21)				
	rk Surface (A12)	U DA 450A	Depleted Ocl			-	Very Shallow Dark Surface (F22) D, P, T) (outside MLRA 138, 152A in FL, 154)				
	airie Redox (A16) ( <b>M</b> ucky Mineral (S1) <b>(L</b> l		<u> </u>				Barrier Islands Low Chroma Matrix (TS7)				
	leyed Matrix (S4)	KK 0, 3)	Umbric Surfa  Delta Ochric			-	(MLRA 153B, 153D)				
	edox (S5)		Reduced Ver						in Remarks)		
	Matrix (S6)		Piedmont Flo					(Explain)	iii rtoinantoj		
	face (S7) <b>(LRR P, S</b> ,	. T. U)	Anomalous E				-				
	e Below Surface (S8)	-	(MLRA 149	-			· _	ators of h	ydrophytic ve	egetation and	
(LRR S	S, T, U)		Very Shallow				wetland hydrology must be present,				
	•		(MLRA 13	B, 152A	in FL, 1	54)	unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Pres	ent?	Yes	NoX	
Remarks:											
This data form Version 8.0, 2	m is revised from Atla	antic and G	fulf Coastal Plain R	Regional	l Suppler	nent Vers	ion 2.0 to include th	e NRCS	Field Indicate	ors of Hydric Soils,	
version 6.0, 2	2016.										

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-27b
Investigator(s): FCA, NJC	Section, Township, Range:
Landform (hillside, terrace, etc.): Terrace Loc	cal relief (concave, convex, none): Convex Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.319052	Long: -89.849209 Datum: NAD83
Soil Map Unit Name: Fm: Falaya silt loam	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	
<del></del>	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland?  Yes No _X
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Ode	or (C1) Moss Trim Lines (B16)
I ——	es on Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced	
Drift Deposits (B3) Recent Iron Reductio	
Algal Mat or Crust (B4)  Thin Muck Surface (C	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Other (Explain in Ren	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T,U)
Field Observations:	Spriagrium Woss (56) (ERR 1,5)
	16).
Surface Water Present? Yes No X Depth (inche Water Table Present? Yes No X Depth (inche	
Saturation Present? Yes No X Depth (inche	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:	
No positive indicators of hydrology in the Upland plot	
I	

۷E	<b>GETATION (Four Strata)</b> – Use scientit	fic names o	of plants.		Sampling Point:	UPL-27b
Tre	ee Stratum (Plot size: 30-feet )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	Pinus taeda	35	Yes	FAC	Number of Dominant Species	
2.	Ulmus rubra	20	Yes	FAC	That Are OBL, FACW, or FAC:	4 (A)
3.	Liriodendron tulipifera	30	Yes	FACU	Total Number of Dominant	
4.	Liquidambar styraciflua	5	No	FAC	Species Across All Strata:	7 (B)
5.					Percent of Dominant Species	
6.			·		That Are OBL, FACW, or FAC:	57.1% (A/B)
7.					Prevalence Index worksheet:	
8.				,	Total % Cover of: M	fultiply by:
		90 =	=Total Cover	,	OBL species 0 x 1 =	
	50% of total cover: 4	5 20%	of total cover:	18	FACW species 0 x 2 =	0
Sa	pling/Shrub Stratum (Plot size: 15-feet )				FAC species 90 x 3 =	270
1.	Carpinus caroliniana	15	Yes	FAC	FACU species 65 x 4 =	
2.	Liriodendron tulipifera	15	Yes	FACU	UPL species 0 x 5 =	0
3.					Column Totals: 155 (A)	530 (B)
4.					Prevalence Index = B/A =	3.42
5.					Hydrophytic Vegetation Indicators:	
6.					1 - Rapid Test for Hydrophytic Ve	
						egetation
7.					X 2 - Dominance Test is >50%	
8.			T-1-1 O		3 - Prevalence Index is ≤3.0 <sup>1</sup>	(:1 /=1-:-)
			=Total Cover		Problematic Hydrophytic Vegetat	ion (Explain)
		5 20%	of total cover:	6		
<u>He</u>	rb Stratum (Plot size:5-feet)					
1.	Lonicera japonica	20	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland	
2.	Microstegium vimineum	15	Yes	FAC	present, unless disturbed or problema	atic.
3.					Definitions of Four Vegetation Stra	ıta:
4.					Tree – Woody plants, excluding vines	
5.					more in diameter at breast height (DE height.	3H), regardless of
6.					noight.	
7.					Sapling/Shrub – Woody plants, excl	uding vines less
8.					than 3 in. DBH and greater than 3.28	
9.						
10.					<b>Herb</b> – All herbaceous (non-woody) p	olante regardless
11.					of size, and woody plants less than 3	
12.					1	
		35 =	=Total Cover		Woody Vine - All woody vines greate	er than 3.28 ft in
	50% of total cover:1	8 20%	of total cover:	7	height.	
Wc	oody Vine Stratum (Plot size: 15-feet )	<u></u>				
1.						
2.						
3.						
4.	_					
5.						
٥.			=Total Cover		Hydrophytic	
	50% of total cover:		of total cover:		Vegetation Present? Yes X No	
	50% of total cover:	20%	or total cover.		Present? Yes X No	
Re	marks: (If observed, list morphological adaptation	ns below.)				
ı						

SOIL Sampling Point: UPL-27b

		to the depti				ator or co	onfirm the absence	of indicators.)			
Depth	Matrix			K Featur		12	Tandama	D -			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks		
0-7	10YR 3/3	100					Loamy/Clayey				
7-18	10YR 5/3	100					Loamy/Clayey				
	oncentration, D=Depl					d Grains.		PL=Pore Lining, M			
-	Indicators: (Applica	ible to all Li			-	C T II)		for Problematic H	yarıc Solis":		
Histosol	` '		Thin Dark Su	,	, ,			/luck (A9) <b>(LRR O)</b> /luck (A10) <b>(LRR S)</b>			
	pipedon (A2)		Barrier Island			12)		. ,			
Black His			(MLRA 15		-	DD 0)		Prairie Redox (A16)	•		
	n Sulfide (A4)		Loamy Muck	•	` ' '	LKK ()	•	side MLRA 150A)			
	Layers (A5)	T 11\	Loamy Gleye					ed Vertic (F18)	EOD)		
	Bodies (A6) (LRR, Park) (LR) (LR)	-	Depleted Ma Redox Dark	` '			•	side MLRA 150A, 1	•		
			Depleted Dai		` '			ont Floodplain Soils alous Bright Floodpl			
	esence (A8) <b>(LRR U</b> ) ick (A9) <b>(LRR P, T)</b>	,	Redox Depre		` ,			RA 153B)	airi 30iis (i 20)		
	d Below Dark Surface	<sub>2</sub> (Δ11)	Marl (F10) <b>(L</b>		(10)		•	•			
	ark Surface (A12)	5 (A11)	Depleted Oc	-	1) /MI D	۸ ۱۶۱۱	Red Parent Material (F21)  Very Shallow Dark Surface (F22)				
	rairie Redox (A16) ( <b>N</b>	II DA 150A\				-					
	lucky Mineral (S1) <b>(L</b>	,	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	Bleyed Matrix (S4)	.ixix <b>0</b> , <b>3</b> )	Delta Ochric			-	(MLRA 153B, 153D)				
	edox (S5)		Reduced Ver			-		(Explain in Remarks	-1		
	Matrix (S6)		Piedmont Flo	•				Lxpiaiii iii Neiliaiks	<i>)</i>		
	rface (S7) <b>(LRR P, S</b>	T 11\	Anomalous E								
	e Below Surface (S8	-	(MLRA 14	_				tore of hydrophytic	vegetation and		
	S, T, U)	')	Very Shallow				<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,				
(LIXIX )	3, 1, 0)		(MLRA 13				unless disturbed or problematic.				
Restrictive L	Layer (if observed):				•						
Type:											
Depth (ir	nches):						Hydric Soil Prese	ent? Yes	No X		
Remarks:											
		antic and G	ulf Coastal Plain R	Regional	l Suppler	ment Vers	ion 2.0 to include the	NRCS Field Indica	ators of Hydric Soils,		
Version 8.0,	2016.										

Project/Site: Big Creek	City/County: N	Millington / Shelby Co	Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions		State: TN	Sampling Point: UPL-28/29
Investigator(s): FCA, NJC	Section, Township	, Range:	
Landform (hillside, terrace, etc.): Flat	Local relief (concave,	, convex, none): Convex	Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134	Lat: 35.331739	Long: -89.845682	Datum: NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0	to 2 percent slopes, occasionally flooded,	long duration NWI classificat	tion: N/A
Are climatic / hydrologic conditions on the site to			explain in Remarks.)
Are Vegetation, Soil, or Hydrolo		Normal Circumstances" present	
Are Vegetation, Soil, or Hydrolo	· <del></del>	eeded, explain any answers in Re	
SUMMARY OF FINDINGS – Attach s			
Hydrophytic Vegetation Present? Y	es No X Is the Sample	ed Area	
' ' ' <del>'</del>	es No X within a Wetla		No X
Wetland Hydrology Present? Y	es No X		
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)	Surface Soil Cracl	, ,
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	S (C3) Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test	` '
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) <b>(LRR T,U)</b>
Field Observations:			
	No X Depth (inches):		
	No X Depth (inches):		
	No X Depth (inches):	Wetland Hydrology Present?	Yes No _X
(includes capillary fringe)	taria a mali a paria la bata a manaisma isana at	inna) if available.	
Describe Recorded Data (stream gauge, mon	toring well, aerial photos, previous inspecti	ions), if available:	
Remarks:			
No positive indicators of hydrology in the Upla	nd plot		

VE	<b>GETATION (Four Strata)</b> – Use scient	tific	names o	of plants.		Sampling Point:	UPL-28/	/29
Tre	e Stratum (Plot size: 30-feet )		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1.	Celtis laevigata		15	Yes	FACW	Number of Dominant Species		
2.	Ulmus rubra	_	15	Yes	FAC	That Are OBL, FACW, or FAC:	4	(A)
3.	Liriodendron tulipifera	_	30	Yes	FACU	Total Number of Dominant		- `
4.	Quercus bicolor	_	10	No	FACW	Species Across All Strata:	7	(B)
5.	Betula nigra	_	5	No	FACW			_ ` ′
6.		_				Percent of Dominant Species That Are OBL, FACW, or FAC:	57.1%	(A/B)
7.		_				Prevalence Index worksheet:	07.170	_(/ (/ D)
8.		_					fultiply by:	
0.		_	 75 =	Total Cover		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		_
	FOO/ of total acyon				15			_
0	1	38		of total cover:	15	FACW species 35 x 2 =		_
	bling/Shrub Stratum (Plot size: 15-feet	.)	45	.,	E4011	FAC species 35 x 3 =		—
1.	Liriodendron tulipifera	_	45	Yes	FACU	FACU species 90 x 4 =		
2.	Ligustrum sinense	_	20	Yes	FAC	UPL species 0 x 5 =	0	<del>_</del>
3.		_				Column Totals: 160 (A)	535	(B)
4.		_				Prevalence Index = B/A =	3.34	
5.		_				Hydrophytic Vegetation Indicators:		
6.		_				1 - Rapid Test for Hydrophytic Ve	egetation	
7.						X 2 - Dominance Test is >50%		
8.						3 - Prevalence Index is ≤3.0 <sup>1</sup>		
			65 =	Total Cover		Problematic Hydrophytic Vegetat	tion <sup>1</sup> (Expla	in)
	50% of total cover:	 33	20%	of total cover:	13			
Her	<u>b Stratum</u> (Plot size: 5-feet )		_					
1.	Arundinaria gigantea		5	Yes	FACW	1 a disease of budgie sell and westened	h	
2.	Lonicera japonica	_	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland present, unless disturbed or problema		nust be
3.	Zornocra japornoa	_		100	17.00	Definitions of Four Vegetation Stra		
4.		_				_		>
5.		_				Tree – Woody plants, excluding vines more in diameter at breast height (DE		
		-				height.	orij, rogara	1000 01
6.		-						
7.		-				Sapling/Shrub – Woody plants, excl	uding vines	s, less
8.		_				than 3 in. DBH and greater than 3.28	ft (1 m) tall	l.
9.		_						
10.						<b>Herb</b> – All herbaceous (non-woody) p	olants. rega	rdless
11.						of size, and woody plants less than 3		
12.								
		_	20 =	Total Cover		Woody Vine – All woody vines greate	er than 3.28	8 ft in
	50% of total cover:	10	20%	of total cover:	4	height.		
Wo	ody Vine Stratum (Plot size:15-feet)							
1.								
2.			<u> </u>					
3.								
4.		_						
5.		_						
0.		_		Total Cover		Hydrophytic		
	50% of total cover:	_		of total cover:		Vegetation Present? Yes X No		
				oi total cover.		Present? Yes X No		
Rer	marks: (If observed, list morphological adaptation	ons b	oelow.)					

SOIL Sampling Point: UPL-28/29

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	(Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-5	10YR 3/3	100					Loamy/Clayey			
5-12	10YR 4/3	90	10YR 5/6	10	C	<u>M</u>	Loamy/Clayey	Distinct redox concentrations		
12-18	10YR 5/3	85	10YR 5/1	15	<u>D</u>	<u>M</u>	Loamy/Clayey	mottling		
			10YR 6/6	5	С	M		Distinct redox concentrations		
1 0 0		<del></del>					21			
	ncentration, D=Deple					Grains.		PL=Pore Lining, M=Matrix.		
-	ndicators: (Applical	ole to all L				C T II\		for Problematic Hydric Soils <sup>3</sup> :		
Histosol (	ipedon (A2)		Thin Dark Su					luck (A9) <b>(LRR O)</b>		
			Barrier Island			12)		luck (A10) (LRR S)		
Black His			(MLRA 15		-	BB (A)		Prairie Redox (A16) ide MLRA 150A)		
	Sulfide (A4)		Loamy Muck			KK U)	`	•		
	Layers (A5)	T 11\	Loamy Gleye		, ,			ed Vertic (F18) ide MLRA 150A, 150B)		
	Bodies (A6) (LRR, P,	_	Depleted Mar				`	, ,		
	cky Mineral (A7) (LR	-	Redox Dark		` '			ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		Depleted Day		` '		Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)	(111)	Redox Depre		(ГО)		(MLRA 153B)  Pod Parent Material (E21)			
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	-	1) <b>/MI</b> D /	151)	Red Parent Material (F21)  Very Shallow Dark Surface (F22)			
	rk Surface (A12)	I DA 150A	<del></del> :	Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR 0						
	airie Redox (A16) ( <b>M</b>				`	, <b>.</b>	, , ,			
	ucky Mineral (S1) (LI	KK (), (3)	Umbric Surfa			-	Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D)			
	eyed Matrix (S4)		Delta Ochric			-				
	edox (S5)		Reduced Ver	•			· — `	Explain in Remarks)		
	Matrix (S6)	T	Piedmont Flo							
	face (S7) <b>(LRR P, S,</b>		Anomalous E	_			·	and of hardwards of a constation and		
	Below Surface (S8)	)	(MLRA 14					ors of hydrophytic vegetation and		
(LRR S	s, I, U)		Very Shallow				wetland hydrology must be present, unless disturbed or problematic.			
			(MLRA 13	8, 152A	IN FL, 1:	04)	unies	ss disturbed or problematic.		
Restrictive L Type:	ayer (if observed):									
Depth (in	ches).						Hydric Soil Prese	ent? Yes No X		
Remarks:							Tryullo Coll 1 1030	<u> </u>		
		antic and G	iulf Coastal Plain R	tegional	Supplen	nent Vers	ion 2.0 to include the	NRCS Field Indicators of Hydric Soils,		

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-29a
Investigator(s): FCA, NJC	ection, Township, Range:
Landform (hillside, terrace, etc.): Terrace Loca	al relief (concave, convex, none): Convex Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.314727	Long: -89.838029 Datum: NAD83
Soil Map Unit Name: Ca: Calloway silt loam, 0 to 2 percent slopes	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or HydrologyX _ significantly dist	<u>—</u> —
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Area within a Wetland? Yes NoX
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (I	
Saturation (A3) Hydrogen Sulfide Odo	
	s on 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	n in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)Thin Muck Surface (C	7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Rem	arks) 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 X Depth (inches Water Table Present? Yes No X Depth (inches	
· ` `	
Saturation Present? Yes No _X Depth (inches (includes capillary fringe)	S):   Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections). if available:
<b>3 1 3 1 1 1 1 1 1 1 1 1 1</b>	1
Remarks:	
No positive indicators of hydrology in the Upland plot	
1	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30-feet )	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus taeda	15	No	FAC	Number of Dominant Species
2. Liquidambar styraciflua	35	Yes	FAC	That Are OBL, FACW, or FAC: 3 (A)
3. Quercus nigra	15	No	FAC	Total Number of Dominant
4. Platanus occidentalis	20	Yes	FACW	Species Across All Strata: 5 (B)
5. Betula nigra	15	No	FACW	
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)
7.		-		Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
o	100	=Total Cover		
FOOV of total account			20	
·	50 20%	of total cover:	20	FACW species 35 x 2 = 70
Sapling/Shrub Stratum (Plot size: 15-feet	)	.,	=	FAC species 110 x 3 = 330
Liquidambar styraciflua	45	Yes	FAC	FACU species 35 x 4 = 140
2. Juniperus virginiana	20	Yes	FACU	UPL species 0 x 5 = 0
3.				Column Totals: 180 (A) 540 (B)
4				Prevalence Index = B/A = 3.00
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	65 =	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	33 20%	of total cover:	13	<del></del>
Herb Stratum (Plot size: 5-feet )				
1.				In directors of hydric and wetlend hydrology may at he
2.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Allium vineale	15	Yes	FACU	Definitions of Four Vegetation Strata:
4.		100	17.00	
5.				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
6.				
7.				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	15=	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	8 20%	of total cover:	3	height.
Woody Vine Stratum (Plot size: 15-feet )				
1				
2.				
3.				
1	-	-		
5.				
J		=Total Cover		Hydrophytic
FOOV of total account		of total cover:		Vegetation
50% of total cover:	000/	or ioial cover.		Present? Yes X No No
	20%	or total cover.		<del></del>
Remarks: (If observed, list morphological adaptation		or total oover.		
Remarks: (If observed, list morphological adaptation		or total cover.		<u> </u>
Remarks: (If observed, list morphological adaptation		or total cover.		
Remarks: (If observed, list morphological adaptation		or total dovor.		
Remarks: (If observed, list morphological adaptation		or total devel.		

Sampling Point: UPL-29a

SOIL Sampling Point: UPL-29a

Profile Desc	ription: (Describe t	o the dept	h needed to docu	ıment tl	he indica	ator or co	onfirm the absence	of indicators.)	
Depth	Matrix		Redox	c Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 3/3	100					Loamy/Clayey		
8-18	10YR 6/3	85	10YR 6/1	10	D	M	Loamy/Clayey		
			10YR 6/6	5	С	М		Distinct redox concentrations	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.	
	ndicators: (Applica							for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Thin Dark Su	ırface (S	9) <b>(LRR</b>	S, T, U)	1 cm N	Muck (A9) (LRR O)	
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)	
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)	
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) <b>(L</b>	RR O)	(outs	side MLRA 150A)	
Stratified	Layers (A5)		Loamy Gleye			•	Reduc	ed Vertic (F18)	
	Bodies (A6) (LRR, P	, T, U)	Depleted Ma				— (outs	side MLRA 150A, 150B)	
	cky Mineral (A7) (LR	-	Redox Dark				Piedmo	ont Floodplain Soils (F19) (LRR P, T)	
	esence (A8) (LRR U)	-	Depleted Dai		` '		Anomalous Bright Floodplain Soils (F20)		
	ck (A9) <b>(LRR P, T)</b>		Redox Depre		` '		(MLRA 153B)		
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>		()		Red Parent Material (F21)		
I —	rk Surface (A12)	(	Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)		
	airie Redox (A16) ( <b>M</b>	I RA 150A	Iron-Manganese Masses (F12) (LRR C						
	ucky Mineral (S1) <b>(L</b>		Umbric Surfa		`	, <b>.</b>	Barrier Islands Low Chroma Matrix (TS7)		
	leyed Matrix (S4)	itit 0, 0,	Delta Ochric			-	(MLRA 153B, 153D)		
	edox (S5)		Reduced Ver			-			
	Matrix (S6)		Piedmont Flo	•			· —	(Explain in Remarks)	
	face (S7) <b>(LRR P, S</b> ,	T 11\	Anomalous E						
	e Below Surface (S8)		(MLRA 14	-			· _	tors of hydrophytic vegetation and	
		)	•						
(LKK s	S, T, U)		Very Shallow					and hydrology must be present, ss disturbed or problematic.	
Restrictive I	.ayer (if observed):		(WLKA 130	6, 13ZA	III FL, 13	3 <del>4)</del>	unie	ss disturbed of problematic.	
Type:	ayer (ii observeu).								
Depth (in	iches):						Hydric Soil Pres	ent? Yes No X	
Remarks: This data for Version 8.0, 2		antic and G	ulf Coastal Plain R	Regional	Supplen	nent Vers	ion 2.0 to include the	e NRCS Field Indicators of Hydric Soils,	

Project/Site: Big Creek	City/County: Millington / Shelby Co Sampling Date: 01/29/2020
Applicant/Owner: Barge Design Solutions	State: TN Sampling Point: UPL-29b
Investigator(s): FCA, NJC	Section, Township, Range:
Landform (hillside, terrace, etc.): Flat Loc	cal relief (concave, convex, none): Convex Slope (%): 0-1%
Subregion (LRR or MLRA): LRR P, MLRA 134 Lat: 35.315985	Long: -89.841222 Datum: NAD83
Soil Map Unit Name: Wv: Waverly silt loam, 0 to 2 percent slopes, occi	asionally flooded, long duration NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes X No (If no, explain in Remarks.)
Are Vegetation X , Soil , or Hydrology significantly dis	
Are Vegetation , Soil , or Hydrology naturally proble	
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	<del></del>
Remarks:	
recent brush mowing within the sample point area	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15)	· · · · · · · · · · · · · · · · ·
Saturation (A3)  Hydrogen Sulfide Odd	i de la companya de
	es on Living Roots (C3)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Sediment Deposits (B2)  Presence of Reduced	
Drift Deposits (B3)  Recent Iron Reductio	
Algal Mat or Crust (B4)  Thin Muck Surface (C	
Iron Deposits (B5)  Other (Explain in Ren	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)
Field Observations:	<u> </u>
Surface Water Present? Yes No X Depth (inche	es):
Water Table Present? Yes No X Depth (inche	
Saturation Present? Yes No X Depth (inche	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:  No positive indicators of hydrology in the Upland plot	
The positive indicators of flydrology in the opiana plot	
1	

**VEGETATION** (Four Strata) – Use scientific names of plants. Sampling Point: UPL-29b Absolute Dominant Indicator Tree Stratum (Plot size: 30-feet ) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 2 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) 7. Prevalence Index worksheet: Total % Cover of: **OBL** species =Total Cover 0 x 1 = 50% of total cover: **FACW** species x 2 = 20% of total cover: Sapling/Shrub Stratum (Plot size: \_\_\_\_15-feet \_\_\_) 75 x 3 = FAC species 15 1. Liquidambar styraciflua **FACU** species x 4 = 60 x 5 = 2. UPL species 0 0 Column Totals: 90 (A) (B) 3. 285 4. Prevalence Index = B/A = 3.17 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 75 =Total Cover Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 50% of total cover: 38 20% of total cover: Herb Stratum (Plot size: \_\_\_\_5-feet \_\_\_) 1. Solidago altissima <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 15 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 50% of total cover: 8 20% of total cover: Woody Vine Stratum (Plot size: 15-feet ) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Recent brush mowing within the upland sample plot area

SOIL Sampling Point: UPL-29b

Depth Marix Reduce Neatures Remarks    Color (missit) %   Color (missit) %   Type   Loc   Texture   Remarks	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Color (moist)		-	-						•		
4-18 10YR 5/3 80 10YR 4/1 15 D M Loamy/Clayey  10YR 5/6 5 C M Distinct redox concentrations  10YE 5/6 C M Distinct redox concentrations  10YE 5/6 C M Distinct redox concentrations  11 Concentration  11 Concentrations  11 Concentrations  11 Concentrations  12 Concentration  12 Concentration  12 Concentration  13 Concentration  14 Concentration  15 Concentration  15 Concentration  16 Co	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	0-4	10YR 3/3	100					Loamy/Clayey			
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histor Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histor Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histor Soil McConstruction (A2)  Barrier Islands 1 cm Muck (S12)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR O)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F2)  Sor Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F6)  Muck Presence (A8) (LRR U)  Thick Dark Surface (A12)  Depleted Deric (F11) (MLRA 151)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Stripped Matrix (S4)  Dark Surface (S7)  Loamy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Reduced Vertic (F18) (MLRA 150A, 150B)  Pelamont Teloodplain Soils (F20)  Wink A 153B, 153D  Other (Explain in Remarks)  Wery Shallow Dark Surface (F8)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Pelamont Floodplain Soils (F20)  "MRA 153B, 153D  Other (Explain in Remarks)  Indicators for Problematic Hydric Soils (F18)  1 cm Muck (A9) (LRR O)  1 cm Muck (A9) (LRR O)  1 cm Muck (A9) (LRR O)  Coast Prairie Redox (A16)  (MLRA 153B, 153D)  (MLRA 153B, 153D)  Red Parent Material (F21)  Very Shallow Dark Surface (F2)  (outside MLRA 150A, 150B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Pleidmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Floodplain Soils (F20)  "MRA 143A, 153C, 153D)  Other (Explain in Remarks)  Indicators for Problematic Muck (A10) (LRR P, T, U)  Polyvalue Below Surface (S8)  (MLRA 153B, 152A in FL, 154)  Wery Shallow Dark Surface (F22)  (MLRA 153B, 152A in FL, 154)  Wery Shallow Dark Surface (F22)  (MLRA 153B, 152A in FL, 154)  Wery Shallow Dark Surface (F22)  (MLRA	4-18	10YR 5/3	80	10YR 4/1	15	D	М	Loamy/Clayey			
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histor Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histor Epipedon (A2)  Barrier Islands 1 cm Muck (S12)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR O)  Stratified Layers (A5)  Organic Bodies (A6) (LRR, P, T, U)  Depleted Matrix (F2)  5 cm Mucky Mineral (A7) (LRR P, T, U)  Pepleted Dark Surface (F6)  Tom Muck (A9) (LRR U)  Depleted Dark Surface (F7)  Anomalous Bright Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Stripped Matrix (S4)  Deriv Depleted Obric (F11) (MLRA 150A, 150B)  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Teloodplain Soils (F20)  (MLRA 153B, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  Wery Shallow Dark Surface (F8)  (MLRA 153B, 152A in FL, 154)  Dark Surface (F7) (LRR P, S, T, U)  Polyvalue Below Surface (S8)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils				10YR 5/6	5	С	M		Distinct redox concentrations		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F2)  Coast Prairie Redox (A16)  Muck Presence (A8) (LRR P, T, U)  Depleted Dark Surface (F7)  Histo Ard Surface (A12)  Depleted Dark Surface (F1) (LRR O, T)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Each Varface (A16)  Muck Mineral (A7) (LRR P, T)  Depleted Dark Surface (F1)  Muck (A9) (LRR P, T)  Depleted Dark Surface (F7)  Anomalous Bright Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Coast Prairie Redox (A16) (MLRA 150A)  Inon-Manganese Masses (F12) (LRR O, P, T)  Sandy Mucky Mineral (S1) (LRR O, S)  Stripped Matrix (S6)  Dark Surface (S8)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F20)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  Anomalous Bright Floodplain Soils (F20)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Pickmont Floodplain Soils (F20)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F2)  Muck Presence (A8) (LRR P, T, U)  Depleted Dark Surface (F7)  Muck Presence (A8) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A16)  Unbric Surface (F1) (LRR O, P, T, U)  Sandy Mucky Mineral (A7) (LRR O, S)  Delta Ochric (F17) (MLRA 151)  Sandy Mucky Mineral (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S8)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  In m Muck (A9) (LRR O, 2 cm Muck (A10) (LRR P, T, U)  Thick Dark Surface (S8)  (MLRA 153B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Piedmont Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  Muck (A9) (LRR O, P, T)  Anomalous Bright Floodplain Soils (F20)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F2)  Muck Presence (A8) (LRR P, T, U)  Depleted Dark Surface (F7)  Muck Presence (A8) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A16)  Unbric Surface (F1) (LRR O, P, T, U)  Sandy Mucky Mineral (A7) (LRR O, S)  Delta Ochric (F17) (MLRA 151)  Sandy Mucky Mineral (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S8)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  In m Muck (A9) (LRR O, 2 cm Muck (A10) (LRR P, T, U)  Thick Dark Surface (S8)  (MLRA 153B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Piedmont Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  Muck (A9) (LRR O, P, T)  Anomalous Bright Floodplain Soils (F20)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils	<u> </u>										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F2)  Muck Presence (A8) (LRR P, T, U)  Depleted Dark Surface (F7)  Muck Presence (A8) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A16)  Unbric Surface (F1) (LRR O, P, T, U)  Sandy Mucky Mineral (A7) (LRR O, S)  Delta Ochric (F17) (MLRA 151)  Sandy Mucky Mineral (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S8)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  In m Muck (A9) (LRR O, 2 cm Muck (A10) (LRR P, T, U)  Thick Dark Surface (S8)  (MLRA 153B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Piedmont Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  Muck (A9) (LRR O, P, T)  Anomalous Bright Floodplain Soils (F20)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F2)  Muck Presence (A8) (LRR P, T, U)  Depleted Dark Surface (F7)  Muck Presence (A8) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Thick Dark Surface (A16)  Unbric Surface (F1) (LRR O, P, T, U)  Sandy Mucky Mineral (A7) (LRR O, S)  Delta Ochric (F17) (MLRA 151)  Sandy Mucky Mineral (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S8)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  In m Muck (A9) (LRR O, 2 cm Muck (A10) (LRR P, T, U)  Thick Dark Surface (S8)  (MLRA 153B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Reduced Vertic (F18)  (outside MLRA 150A, 150B)  Piedmont Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  Muck (A9) (LRR O, P, T)  Anomalous Bright Floodplain Soils (F20)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils	1Type: C-Ce	angentration D-Dept	otion DM-I	Poduood Motrix M			Croins	<sup>2</sup> Logotion:	DI - Doro Lining M-Motriy		
Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR S) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, T) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) Thick Dark Surface (A12) Depleted Octric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) (MLRA 153D) Stripped Matrix (S6) Reduced Vertic (F18) (MLRA 150A) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A) Soils (F19) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Soils (F20)  Wery Shallow Dark Surface (F22) (MLRA 153B) Other (Explain in Remarks)  Restrictive Layer (if observed): Type: Depth (inches):  Depth (inches): Hydric Soil Present? Yes No X							Grains.				
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR O) Some Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Depleted Dark Surface (F6) Time Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (LRR P, T, U) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Stripped Matrix (S4) Dark Surface (S5) Dired Matrix (S6) Dark Surface (S8) (LRR P, T, U) Detended Surface (A11) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S8) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR P, S, T, U) Popth (inches): Hydric Soil Present?  Reamarks: This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils  Coast Prairie Redox (A16) (cutside MLRA 150A) (cutside MLRA 150A) (cutside MLRA 150B) Piedmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20)  (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) Barrier Islands Low Chroma Matrix (TS7)  (MLRA 153B) Sitripped Matrix (S6) Dark Surface (S8) (MLRA 149A, 153C, 153D)  Very Shallow Dark Surface of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches):  Depth (inches): Hydric Soil Present?  Yes No X	-		DIE 10 all L			-	e T II\		•		
Black Histic (A3)  (MLRA 153B, 153D)  (Depteted Matrix (F2)  (Depteted Born Surface (F1)  (Depteted Born Surface (F1)  (Depteted Born Surface (F2)  (Depteted Born Surface (F3)  (Depteted Born Surface (A12)  (Depteted Born Surface (A12)  (Depteted Dorn Surface (F12)  (Doast Prairie Redox (A16) (MLRA 150A)  (MLRA 153B)  (MURA 153B, 153D)  (MURA 153B)  (MURA 153B, 153D)  (MURA 153B, 153D)		` ,					-				
Hydrogen Sulfide (A4) Stratified Layers (A5) Coganic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F19) (LRR P, T) Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Depleted Deric (F11) (MLRA 151) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F11) (MLRA 151) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present?  Loamy Mucky Mineral (S1) (LRR O, S) Heducator of Hydric Soils Reduced Vertic (F18) (outside MLRA 150A, 150B) Reduced Vertic (F17) (MLRA 151B, 154) Reduced Vertic (F17) (MLRA 151) Coast Prairie Redox (A16) (MLRA 153B, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Other (Explain in Remarks)  Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Tyes No X  Remarks: This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils						•	12)				
Stratified Layers (A5)  Organic Bodies (A6) (LRR, P, T, U)  Depleted Matrix (F2)  Sem Mucky Mineral (A7) (LRR P, T, U)  Muck Presence (A8) (LRR U)  Depleted Dark Surface (F7)  Anomalous Bright Floodplain Soils (F20)  1 cm Muck (A9) (LRR P, T)  Redox Depressions (F8)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Detail Obertic (F18)  Detail Obertic (F18)  (outside MLRA 150A, 150B)  Piedmont Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Stripped Matrix (S6)  Piedmont Floodplain Soils (F19) (MLRA 151)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Anomalous Bright Floodplain Soils (F19) (MLRA 151)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Anomalous Bright Floodplain Soils (F19) (MLRA 150A, 150B)  Other (Explain in Remarks)  (MLRA 153B, 153D)  Other (Explain in Remarks)  (MLRA 153B, 153D)  (MLRA 149A, 153C, 153D)  (MLRA 149A, 153C, 153D)  (MLRA 149A, 153C, 153D)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Depth (inches):  Hydric Soil Present?  Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils		` '		•	•	•	BB (A)				
Organic Bodies (A6) (LRR, P, T, U)  S cm Mucky Mineral (A7) (LRR P, T, U)  Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Dark Surface (F7)  Anomalous Bright Floodplain Soils (F20)  Muck Presence (A8) (LRR U)  Depleted Dark Surface (F7)  Anomalous Bright Floodplain Soils (F20)  (MLRA 153B)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Iron-Manganese Masses (F12) (LRR O, P, T)  Sandy Mucky Mineral (S1) (LRR O, S)  Umbric Surface (F13) (LRR P, T, U)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  (Anomalous Bright Floodplain Soils (F20)  (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Type:  Depth (inches):  Depth (inches):  Type:  Depth (inches):  Typ							KK U)		•		
S cm Mucky Mineral (A7) (LRR P, T, U)			T 11)						, ,		
Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Iron-Manganese Masses (F12) (LRR O, P, T)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Reduced Vertic (F18) (MLRA 150A, 150B)  Dark Surface (S7) (LRR P, S, T, U)  Polyvalue Below Surface (S8)  (MLRA 158, T, U)  Redox Depressions (F8)  Marl (F10) (LRR U)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (S7) (LRR P, S, T, U)  Anomalous Bright Floodplain Soils (F20)  (MLRA 149A, 153C, 153D)  Very Shallow Dark Surface (F22)  wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils			-	<del></del> '	` ,				· •		
1 cm Muck (A9) (LRR P, T)			-			` '			, , , , , ,		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Depleted Ochric (F11) (MLRA 151)  Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)  Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) (LRR S, T, U) Very Shallow Dark Surface (F22) Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No X  Remarks: This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils			'	<del></del> '		` ,					
Thick Dark Surface (A12)  Depleted Ochric (F11) (MLRA 151)  Coast Prairie Redox (A16) (MLRA 150A)  Iron-Manganese Masses (F12) (LRR O, P, T)  Sandy Mucky Mineral (S1) (LRR O, S)  Umbric Surface (F13) (LRR P, T, U)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Polyvalue Below Surface (S8)  (MLRA 149A, 153C, 153D)  (MLRA 149A, 153C, 153D)  Anomalous Bright Floodplain Soils (F20)  Wery Shallow Dark Surface (F22)  (MLRA 153B, 153D)  Other (Explain in Remarks)  Anomalous Bright Floodplain Soils (F20)  Polyvalue Below Surface (S8)  (MLRA 149A, 153C, 153D)  Very Shallow Dark Surface (F22)  wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils			Δ (Δ11)								
Coast Prairie Redox (A16) (MLRA 150A)	· ·		(7(1)								
Sandy Mucky Mineral (S1) (LRR O, S)  Umbric Surface (F13) (LRR P, T, U)  Barrier Islands Low Chroma Matrix (TS7)  (MLRA 153B, 153D)  Sandy Redox (S5)  Reduced Vertic (F18) (MLRA 150A, 150B)  Other (Explain in Remarks)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Dark Surface (S7) (LRR P, S, T, U)  Polyvalue Below Surface (S8)  (MLRA 149A, 153C, 153D)  Anomalous Bright Floodplain Soils (F20)  Polyvalue Below Surface (S8)  (MLRA 149A, 153C, 153D)  Very Shallow Dark Surface (F22)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils		` ,	II RA 150A)	<del></del> ·	,	, <b>.</b>	,				
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Polyvalue Below Surface (S8)  (MLRA 149A, 153C, 153D)  Very Shallow Dark Surface (F22)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils		, , ,	•						• • • • • • • • • • • • • • • • • • • •		
Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)  Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A)  Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20)  Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Indicators of hydrophytic vegetation and Very Shallow Dark Surface (F22) wetland hydrology must be present, (MLRA 138, 152A in FL, 154) unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils			.ttt 0, 0,				-				
Stripped Matrix (S6)						-					
Dark Surface (S7) (LRR P, S, T, U)  Polyvalue Below Surface (S8)  (MLRA 149A, 153C, 153D)  Very Shallow Dark Surface (F22)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils					•			· — `	Explain in Nomano)		
Polyvalue Below Surface (S8)  (LRR S, T, U)  Very Shallow Dark Surface (F22)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils			T. U)					-			
(LRR S, T, U)  Very Shallow Dark Surface (F22)  (MLRA 138, 152A in FL, 154)  Restrictive Layer (if observed):  Type:  Depth (inches):  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils			-		-				tors of hydrophytic vegetation and		
(MLRA 138, 152A in FL, 154) unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X  Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils			,	•							
Type:  Depth (inches):  Remarks: This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils	(Little)	5, 1, 5,									
Depth (inches): Hydric Soil Present? Yes No X  Remarks: This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils	Restrictive L	ayer (if observed):									
Remarks:  This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils	Type:										
This data form is revised from Atlantic and Gulf Coastal Plain Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils	Depth (in	iches):						Hydric Soil Prese	ent? Yes No X		
	This data form		antic and G	ulf Coastal Plain R	Regional	Supplen	nent Vers	ion 2.0 to include the	e NRCS Field Indicators of Hydric Soils,		