

MEMORANDUM

Date: April 15, 2022

To: Donald Whipple, AICP
From: Emily Drahos, PWD, PWS
Subject: Battle Road Apartments Investigation
CC: Kim Mikel (City of Hampton), Taylor Sprenkle (WRA), Lynn Allsbrook (WRA)

Work Order Number: 19282-003 Contract Number: 19282 Project: Battle Road Apartments

Mr. Whipple:

On March 16, 2022, WRA conducted a site visit and third party review of a previous wetland delineation conducted at the proposed Battle Road Apartments Site (aka Sarah Bonwell Hudgins property). The previous delineation was conducted by Wetland Studies and Solutions, Inc. (WSSI) on August 30, 2021. Additionally, WRA conducted a site reconnaissance of the Hampton School Board Parcel (PIN 5000038) directly north of the proposed Battle Roads Apartments Site to investigate if the RPA previously determined by the City on the Mallory property (based off the delineation depicted on the AES figure dated November 21, 2017) extended to the Battle Road Apartments Site (see Attachment 1). Below are our findings.

- In our professional opinion, the wetland delineation lines depicted on WSSI's RPA figure, dated December 14, 2021, are correct. Please note that WSSI's wetland delineation lines are subject to USACE confirmation.
- Based on our site reconnaissance, the attached documentation, AES's figure dated November 21, 2017, and the City's previous RPA determination on the AES wetlands, it is our opinion that the entire School Board Parcel (PIN 5000038) is made up of non-tidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow, as defined in the City's zoning ordinance. Please note that the site reconnaissance conducted on the School Board Parcel does not constitute a formal wetland delineation or jurisdictional determination. A formal wetland delineation involves the preparation of a delineation report and a jurisdictional determination requires submittal of a delineation report to regulatory agencies for their approval.
- Based on our site reconnaissance, AES's figure dated November 21, 2017, and the City's previous RPA determination on the AES wetlands, the RPA would extend through the School Board Parcel (PIN 5000038) to the proposed Battle Roads Apartments site (see Attachment 1). It is our opinion that the green wetlands depicted on WSSI's wetland delineation figure, dated December 14, 2021, would be nontidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow. The pink wetlands (isolated wetlands) depicted on WSSI's figure would not be connected by surface flow and would not be contiguous to tidal wetlands or water bodies with perennial flow and would not be RPA features. Please note that the isolated nature of wetlands is determined by USACE and is subject to USACE confirmation.

Please contact me at edrahos@wrallp.com or 804-327-5227 if you have any questions or require any additional information.

Thank you,

Emily C. Drahos

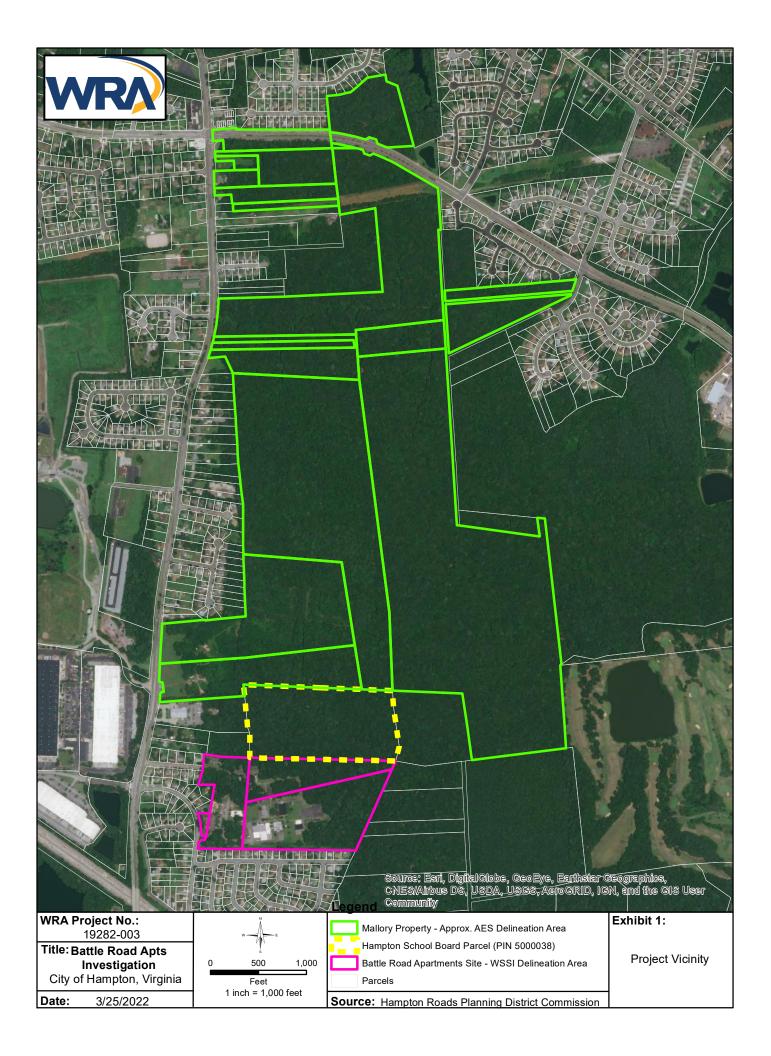
Emily C. Drahos

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Attachment 1: Project Vicinity



Attachment 2: School Board Parcel Data Point

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Battle Road Apartments RPA Investiga	tion City/County: City of H	lampton	Sampling Date: 03/16/2022					
-	•	•	Sampling Point: <u>FDP-Wet-1</u>					
		Section, Township, Range:Section, Township, Range:Slope (%): <u>0-2%</u> Slope (%): <u>0-2%Slope (%): <u>0-2%</u>Slope (%): <u>0-2%Slope (%): <u>0-2%</u>Slope (%): <u>0-2%Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%Slope (%): <u>0-2%</u>Slope (%): <u>0-2%Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%</u>Slope (%): <u>0-2%Slope (%): 0-2%Slope (%): 0-2%Slope (%): 0-2%Slope (%): 0-2%Slope (%): 0-2%Slope (%): 0-2%</u></u></u></u></u></u></u>						
Subregion (LRR or MLRA): <u>LRR T; MLRA 153B</u> Lat: 3								
Soil Map Unit Name: <u>Tomotley-Urban land complex</u> ,	•							
Are climatic / hydrologic conditions on the site typical for this time								
Are Vegetation, Soil, or Hydrology signifi	cantly disturbed? Are "N	ormal Circumstances"	present? Yes No					
Are Vegetation, Soil, or Hydrology natura	ally problematic? (If nee	ded, explain any answe	ers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No Wetland Hydrology Present? Yes ✓ No Remarks:	within a Wetland		No					
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that a	pply)	Surface Soil						
Surface Water (A1) Aquatic Faur			egetated Concave Surface (B8)					
High Water Table (A2) Marl Deposit			atterns (B10)					
Saturation (A3) Hydrogen Su		Moss Trim L						
	zospheres along Living Roots (Reduced I ron (C4)	C3) Dry-Season Crayfish Bu	Water Table (C2)					
	Reduction in Tilled Soils (C6)		/isible on Aerial Imagery (C9)					
Algal Mat or Crust (B4) Thin Muck S			c Position (D2)					
Iron Deposits (B5)		Shallow Aqu						
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra						
 Water-Stained Leaves (B9) 		Sphagnum i	moss (D8) (LRR T, U)					
Field Observations:								
Surface Water Present? Yes <u></u> No <u>Depth</u> (i								
Water Table Present? Yes <u></u> No <u>Depth</u> (i								
Saturation Present? Yes <u>V</u> No Depth (i (includes capillary fringe)	, <u> </u>	and Hydrology Prese	nt? Yes No					
Describe Recorded Data (stream gauge, monitoring well, aeria	photos, previous inspections),	If available:						
Remarks:								
Microtopographic relief and buttressed trur	nks.							

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

Sampling Point: FDP-Wet-1

		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30 feet</u>)		Species?		Number of Dominant Species		
1. <u>Pinus taeda</u>	25	Yes	FAC	That Are OBL, FACW, or FAC: 6 (A	.)	
2. <u>Quercus bicolor</u>	20	Yes	FACW	Total Number of Dominant		
3. <u>Quercus alba</u>	15	Yes	FACU	Species Across All Strata: (B)	
4. <u>Acer rubrum</u>	10	No	FAC			
5. <u>Liquidambar styraciflua</u>	5	No	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>86%</u> (A	/B)	
6					, , ,	
7				Prevalence Index worksheet:		
8				Total % Cover of: Multiply by:		
0	75	= Total Cov		OBL species x 1 = _0		
50% of total cover: <u>37.5</u>				FACW species x 2 =		
	20% 0	total cover		FAC species x 3 =		
Sapling/Shrub Stratum (Plot size: <u>30 feet</u>)	15		FAC	FACU species x 4 = 0		
1. <u>Liquidambar styraciflua</u>	10	Yes	FAC	UPL species x 5 =		
2. <u>Acer rubrum</u>		Yes		Column Totals: 0 (A) 0 (I	B)	
3. <u>Vaccinium fuscatum</u>	10	Yes	FACW		ы)	
4. <u>Ilex opaca</u>	5	No	FAC	Prevalence Index = B/A =		
5				Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7				✓ 2 - Dominance Test is >50%		
8						
··		= Total Cov	/er	3 - Prevalence Index is $\leq 3.0^{1}$		
50% of total cover: 20				Problematic Hydrophytic Vegetation ¹ (Explain)		
	20 % 01					
Herb Stratum (Plot size: <u>30 feet</u>)	15	Vaa	FACW	¹ Indicators of hydric soil and wetland hydrology must	t	
1. <u>Chasmanthium laxum</u>	15 1	Yes		be present, unless disturbed or problematic.		
2. <u>Smilax rotundifolia</u>	1	No	FAC	Definitions of Four Vegetation Strata:		
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or	
4				more in diameter at breast height (DBH), regardless		
5				height.		
6				Sapling/Shrub – Woody plants, excluding vines, les		
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	,0	
8						
				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	SS	
9						
10				Woody vine - All woody vines greater than 3.28 ft in	n	
11			<u> </u>	height.		
12						
		= Total Cov				
50% of total cover: <u>8</u>	20% of	total cover	<u>;</u> 3.2			
Woody Vine Stratum (Plot size: <u>30 feet</u>)						
1						
2						
3						
4						
5	0			Hydrophytic		
0	0 = Total Cover		-	Vegetation Present? Yes No		
50% of total cover: <u>0</u>	20% of	total cover	<u> </u>			
Remarks: (If observed, list morphological adaptations belo	w).					

SOIL

Sampling Point: FDP-Wet-1

4-8	Color (moist) 10YR 3/1	%		%	es Type ¹	Loc ²	Texture	Remarks
4-8		100	Color (moist)	/0			Sandy loam	Remarks
	10YR 3/1	50					Sandy loam	Mixed matrix
	10YR 4/2	50		_			Sandy loam	
8-16	10YR 6/1	90	10YR 6/6	10	С	М	Sandy loam	
	10YR 6/1	80	10YR 6/6	10	<u>C</u>	M	Sandy clay loam	
			7.5Y 5/8	10	C	М	Sandy clay loam	
			Reduced Matrix, M			ains.		PL=Pore Lining, M=Matrix.
lydric Soil In	ndicators: (Applic	cable to all	LRRs, unless othe	rwise no	ted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol (/	A1)		Polyvalue Be	elow Surfa	ace (S8) (I	.RR S, T,	U) 1 cm l	Muck (A9) (LRR O)
Histic Epi	pedon (A2)		Thin Dark S	urface (SS) (LRR S,	T, U)	2 cm l	Muck (A10) (LRR S)
Black Hist	tic (A3)		Loamy Muck	y Mineral	(F1) (LRI	R O)	Reduc	ced Vertic (F18) (outside MLRA 150A,B
	n Sulfide (A4)		Loamy Gley	5	. , .	,		nont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)			Anomalous Bright Loamy Soils (F20)					
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		F6)			RA 153B)
fields/ barried (10)			Red Parent Material (TF2)					
Muck Presence (A8) (LRR U) Redox Depressions (F8)			Very Shallow Dark Surface (TF12)					
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)				Other (Explain in Remarks)				
	Below Dark Surfac	ce (A11)	Depleted Oc			51)		
	k Surface (A12)		Iron-Mangar	· · ·	•	,	T) ³ India	cators of hydrophytic vegetation and
	airie Redox (A16) (MI RA 150			. ,	•		tland hydrology must be present,
	ucky Mineral (S1) (, 0)		ess disturbed or problematic.
-	eyed Matrix (S4)		Delta Ochric Reduced Ve		,	0A 150B		ess disturbed of problematic.
Sandy Git Sandy Re			Piedmont Fl					
				-	• •	•	49A) RA 149A, 153C	1520)
	Matrix (S6)	е т IN	Anomaious i	Singht Loa	arriy Solis (F20) (IVILI	KA 149A, 153C	, 155D)
	ace (S7) (LRR P, started) ayer (if observed)							
Type:	ayer (ir observed)	-						
· · ·	hes):						Hydric Soil	Present? Yes No
Deptil (illei								