







Area 16

Udorthents-Dumps complex Partially Hydric

Udorthents-Dumps complex Partially Hydric Area4



I-64 HAMPTON ROADS BRIDGE-TUNNEL EXPANSION PROJECT **ADDITIONAL DELINEATION AREAS 2019**

SHEET 18 OF 19



Additional Delineation Areas (2019) --·· Mean High Water (0.95 ft) Previously Confirmed PJD Delineation Boundary (2018) --·· Mean Low Water (-1.48 ft)

--..VDOT Right of Way

	NRCS Soil Boundary
\mathbb{Z}	NWI Wetlands
	FEMA 100-Year Floodplain

Confirmed Jurisdictional WOUS (2018)

		. ,
E1OW	E2US2	E2SS
E2RF	E2US3	E2FO
E2RS2	E2EM	PEM



PSS	R2
PFO	R4
PUB	R6





Conservation Service



USDA

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Altavista-Urban land complex, 0 to 3 percent slopes	0.4	2.0%
2	Augusta-Urban land complex, 0 to 2 percent slopes	0.1	0.7%
6	Bohicket muck, 0 to 1 percent slopes, very frequently flooded	0.2	0.8%
20	Seabrook-Urban land complex, 0 to 2 percent slopes	0.1	0.5%
22	State-Urban land complex, 0 to 3 percent slopes	0.0	0.1%
26	Udorthents-Dumps complex	4.2	21.7%
27	Urban land	0.0	0.2%
W	Water	14.3	73.9%
Totals for Area of Interest		19.3	100.0%





Delineated Areas





---- Mean High Water (0.95 ft) E1OW --...Mean Low Water (-1.48 ft) E2RF E2RS2

	E2US2	E2SS	PSS	R2
	E2US3	E2FO	PFO	R4
)	E2EM	PEM	PUB	R6









---- Mean High Water (0.95 ft) E10 --...Mean Low Water (-1.48 ft) E2 E2

OW	E2US2	E2SS	PSS	R2
2RF	E2US3	E2FO	PFO	R4
RS2	E2EM	PEM	PUB	R















--... Mean High Water (0.95 ft) --·· Mean Low Water (-1.48 ft) E2

10W	E2US2	E2SS	PSS	R2
2RF	E2US3	E2FO	PFO	R4
2RS2	E2EM	PEM	PUB	R6













--... Mean High Water (0.95 ft) --... Mean Low Water (-1.48 ft) E2

10W	E2US2	E2SS	PSS	R2
2RF	E2US3	E2FO	PFO	R4
2RS2	E2EM	PEM	PUB	R6









---- Mean High Water (0.95 ft) E1OW E2US2 E2SS PSS --...Mean Low Water (-1.48 ft) E2RF E2US3 PFO R4 E2FO E2RS2 E2EM PEM PUB R6

R2













---- Mean High Water (0.95 ft) E1OW E2US2 R2 E2SS PSS --·· Mean Low Water (-1.48 ft) E2RF E2US3 PFO R4 E2FO E2RS2 E2EM PEM PUB R6









---- Mean High Water (0.95 ft) E1OW E2US2 E2SS R2 PSS --··Mean Low Water (-1.48 ft) E2RF E2US3 PFO R4 E2FO E2RS2 E2EM PEM PUB R6









---- Mean High Water (0.95 ft) E1OW --...Mean Low Water (-1.48 ft) E2RF E2RS2

E2US2	E2SS	PSS	R2
E2US3	E2FO	PFO	R4
E2EM	PEM	PUB	R6









---- Mean High Water (0.95 ft) --·· Mean Low Water (-1.48 ft)

E1OW	E2US2	E2SS	PSS	R2
E2RF	E2US3	E2FO	PFO	R4
E2RS2	E2EM	PEM	PUB	R6









---- Mean High Water (0.95 ft) E1OW E2US2 E2SS --...Mean Low Water (-1.48 ft) E2RF











---- Mean High Water (0.95 ft) E10 --...Mean Low Water (-1.48 ft) E2F E2

IOW	E2US2	E2SS	PSS	R2
2RF	E2US3	E2FO	PFO	R4
2RS2	E2EM	PEM	PUB	R6









---- Mean High Water (0.95 ft) E10 --...Mean Low Water (-1.48 ft) E2F E2

IOW	E2US2	E2SS	PSS	R
2RF	E2US3	E2FO	PFO	R
2RS2	E2EM	PEM	PUB	R









---- Mean High Water (0.95 ft) E1OV E2RF --... Mean Low Water (-1.48 ft) E2RS

W	E2US2	E2SS	PSS	R
F	E2US3	E2FO	PFO	R
S2	E2EM	PEM	PUB	R









--... Mean High Water (0.95 ft) --·· Mean Low Water (-1.48 ft) E2

10W	E2US2	E2SS	PSS	R2
2RF	E2US3	E2FO	PFO	R4
2RS2	E2EM	PEM	PUB	R6









--... Mean High Water (0.95 ft) E1OV --... Mean Low Water (-1.48 ft) E2RF E2RS

W	E2US2	E2SS	PSS	R2
F	E2US3	E2FO	PFO	R4
S2	E2EM	PEM	PUB	R6









--... Mean High Water (0.95 ft) E1OW E2RF --... Mean Low Water (-1.48 ft) E2RS2

/	E2US2	E2SS	PSS	R2
	E2US3	E2FO	PFO	R4
2	E2EM	PEM	PUB	R6





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Data Forms

roject/Site: HRBT	City/County: Nir A	IV	12/01
roject/Site: HFD I pplicant/Owner: VDIT			Sampling Date: 10/8)
vestigator(s): AD			Sampling Point: <u>1////////////////////////////////////</u>
	Section, Township, Range: Local relief (concave, conve	N DODON LANCA	V1 01- 101 5%
ubregion (LRR or MLRA):	Lat: _26,94645054 Long	$= \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$	Siope (%):
oil Map Unit Name: Bihicket Much 0-1 %			
re climatic / hydrologic conditions on the site typical for			
re Vegetation, Soil, or Hydrology			
re Vegetation, Soil, or Hydrology	10	d, explain any answers	
UMMARY OF FINDINGS – Attach site m	ap showing sampling point loca	tions, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Are	2	
Hydric Soil Present? Yes _/	No within a Wetland?	Yes 🗸	No
Wetland Hydrology Present? Yes Ves	_ No	100	
PFD			
TIU			
YDROLOGY			
Netland Hydrology Indicators:		Socondary Indicate	an (minimum of hus section d)
Primary Indicators (minimum of one is required; check	s all that apply)	Surface Soil C	ors (minimum of two required)
	uatic Fauna (B13)		tated Concave Surface (B8)
High Water Table (A2)	l Deposits (B15) (LRR U)	Drainage Patte	• •
	Irogen Sulfide Odor (C1)	Moss Trim Line	es (B16)
	dized Rhizospheres along Living Roots (C3		ater Table (C2)
	sence of Reduced Iron (C4) cent Iron Reduction in Tilled Soils (C6)	Crayfish Burro	ws (C8) ble on Aerial Imagery (C9)
	n Muck Surface (C7)	Geomorphic P	- • • • •
	er (Explain in Remarks)	Shallow Aquita	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral T	est (D5)
Water-Stained Leaves (B9)		Sphagnum mo	ss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <u></u> No	Depth (inches): 0.5"		
Vater Table Present? Yes No	Bobai (moneo).		/
Saturation Present? Yes Vo		d Hydrology Present	Yes No
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w			
essine recorded Data (stream gauge, monitoring w	en, aenai priotos, previous inspections), ir a		
Remarks:			

1.10

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

Sampling Point: W(003-WF)

	Absolute	Dominant	Indicator	Dominance Test worksheet:
		Species?	Status	
1. Liquidamper sturaciflua	10	Y	FAL	That Are OBL, FACW, or FAC:
2. Praxinul Rehnin Mania	10	y	FALW	
3. Aur rebren	2		FAL	Total Number of Dominant Species Across All Strata: / 0 (B)
	10	y		Species Across All Strata: (B)
4. Robinia Pstudoacacia	1	- <u>v</u>	FALM	Percent of Dominant Species
5. Fraving nigra	- ()	<u> </u>	FACW	That Are OBL, FACW, or FAC: 70 (A/B)
6				-
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	45	= Total Cov	er	OBL species x 1 =
50% of total cover: 23				FACW species x 2 =
	20% 0	total cover.	-11-	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15)	Δ	M	TALL	FACU species x 4 =
1. Frakann/ pennin/Venin		<u> </u>	FACW	UPL species x 5 =
2. Ligutrum Schense	30	Y	FACU	
3				Column Totals: (A) (B)
4. Quercus higm	5		FAC	Desustance lades: = D(A =
5				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 487	20% of	total cover	19	
Herb-Stratum (Plot size:)				The direct second descent and southered by dealers around
1. Daring Renning Values	60	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2. RUMU allegher insis	40		FACU	
				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 of
5		()		height.
6				Sapling/Shrub - Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				-
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
	100	= Total Cov	ler	
50% of total cover: 50		f total cover	~ ^	
	20% 0	I LOLAI CUVEI	·	
	75	V/	+	
1. CUMPTIS radicans	25		FAC	
2. Smilax pona - nex	10	<u> </u>	FAC	
3				
4.				
5				
	35	= Total Cov		Hydrophytic Vegetation
50% statel 187		f total cover	- ti	Present? Yes <u>No</u>
50% of total cover: <u>18%</u>		r total cover	:	
Remarks: (If observed, list morphological adaptations belo	w).			
				A

rofile Desc	cription: (Describe	to the den	th neede	d to docur	nent the i	indicator	or confirm	n the absence	of indicato	ampling Point:	
Depth	Matrix				x Feature			andened			
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²		-	Remarks	_
1-2	5182.5/1	1010		11.				siltyloam	(
5-11	104R 4/1	. 98	7.51R	416	2	6	M	Santy loan	1		
1-13+	101R 5/1	14	10 YR	10/2	(p .	C	M	Sandy 12+	W.		
						\equiv	\equiv	=			
	oncentration, D=Dep						ains			ning, M=Matrix	
	Indicators: (Applic	cable to all						_		natic Hydric S	Soils':
Histosol Histic E	pipedon (A2)			olyvalue Be nin Dark Su					uck (A9) (L uck (A10) (
Hydroge Stratified Organic 5 cm ML Muck Pr 1 cm ML Depleted Thick Da Coast P	istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR F Jucky Mineral (A7) (L resence (A8) (LRR L Juck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (I <i>f</i> ucky Mineral (S1) (RR P, T, U) J) 20 (A11) MLRA 150/		parny Muck parny Gleye epleted Ma edox Dark epleted Dark edox Depre arl (F10) (L epleted Oci on-Mangan mbric Surfa	ed Matrix (trix (F3) Surface (F rk Surface essions (Fi .RR U) hric (F11) ese Masso uce (F13) (F2) 6) (F7) 8) (MLRA 1 es (F12) (I (LRR P, T	51) LRR O, P,	Piedmo Anoma (MLR Red Pa Very St Other (1 , T) ³ Indica	nt Floodpla lous Bright A 153B) rent Materi nallow Dark Explain in F ators of hyd	Surface (TF12	(LRR P, S, T) F20) 2) ation and
Sandy R Stripped Dark Su estrictive I Type: Depth (ind	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed)	S, T, U)		educed Ver edmont Flo	odplain S	MLRA 15 oils (F19)	(MLRA 14)	153D)	d or problemat	No
Sandy R Stripped Dark Su Restrictive I	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed)	S, T, U)		educed Ver edmont Flo	rtic (F18) (oodplain S	MLRA 15 oils (F19)	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed)	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su Restrictive I Type: Depth (inc Remarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		
Sandy R Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (if observed) ches):	s, t, u) : N/		educed Ver edmont Flo nomalous E	rtic (F18) (bodplain S Bright Loar	MLRA 15 oils (F19) my Soils (I	(MLRA 14) 49A) &A 149A, 153C,	153D)		

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WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site:H & B T	City/County: Nor HIL Sampling Date: 10/8/19
Applicant/Owner: VDVT	State: VA Sampling Point: WROD-UPL Area
Investigator(s):	Section, Township, Range:
21	Local relief (concave, convex, none): NOVQ Slope (%):
Subregion (LRR or MLRA): LRFT Lat: 36	,9464570 Long: -7626691174 Datum: NAP 83
Soil Map Unit Name: Bahicket Muck, D-17, Maper Vi	um freq. Averaud NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? No (in ito, explain in Kenanks.)
Are vegetation, Soil, or Hydrology significant	
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No V
Wetland Hydrology Present? Yes No	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply	Secondary Indicators (minimum of two required)
Surface Water (A1)	
High Water Table (A2)	
Saturation (A3)	
Water Marks (B1)	heres along Living Roots (C3)
Sediment Deposits (B2)	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Dther (Explain in	
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 Depth (inche	
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
upfill area noar weog	
op.	

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

	1 10	, ,
Sampling Point:	WPOOD	- 6 P

Tree Stratum (Plot size: 30')		Dominant		Dominance Test worksheet:
1. Rubinia pleudo acacia	<u>% Cover</u> 40	<u>Species?</u>	FAC W	Number of Dominant Species
2. Plannia sp.	$-\frac{10}{12}$		UNK	That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species 72 3
5				That Are OBL, FACW, or FAC: 33.3/ (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	- 40			OBL species x 1 =
		Total Cov		FACW species x 2 =
50% of total cover:	<u>20%</u> 20% of	total cover	-0_	FAC species x 2 =
Sapling/Shrub Stratum (Plot size: 15)	-	V	-	FACU species x 4 =
1. Frannus pennsyl, lanka	-2	1	FACW	
2. Ligustnin Sin ne	5	<u> </u>	FACU	UPL species x 5 =
3.				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6			·	1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is $\leq 3.0^1$
	10 .	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>5</u>	20% of	total cover:	:_2	
Herb Stratum (Plot size: 5')	,			¹ Indicators of hydric soil and wetland hydrology must
1 FRANDUS panneraliancia	5	N	FACW	be present, unless disturbed nr problematic
2 LONIGRA Aponica	20	Y	FACK	Definitions of Four Vegetation Strata:
3. Company rodicing	10	Y	FAC	
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 than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.	26	= Total Cov		
50% of total cover:			0	
Woody Vine Stratum (Plot size: 30)	20% of	total cover:		
1. Hedoca holiy	95	\checkmark	FACU	
			THEAT	
2				-
3				
4				
5			<u> </u>	Hydrophytic
11	79 -	= Total Cov	er	Vegetation Present? Yes No
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations be	low).			
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-				

SOIL

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Arca 19 moling Point: WP003-WPL

ofile Dese epth	Matrix		Redox Features					
nches)	Color (moist)	<u> </u>	Color (moist) %	Type ¹	Loc ²	Texture	Rema	arks
- 8	10 YR. 212	100				Sandy	lod m	
-13+	10 YR 4/3	<u> 00</u> 				Shally	104401	
ype: C=C dric Soil Histosol Histic E Black H Hydroge Stratifier Organic 5 cm Mu Muck Pr 1 cm Mu Depleter Thick Da Coast P Sandy M Sandy C Sandy F Stripped Dark Su	oncentration, D=Dep Indicators: (Applic (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P ucky Mineral (A7) (Ll resence (A8) (LRR P, T) d Below Dark Surfac ark Surface (A12) rairie Redox (A16) (I Aucky Mineral (S1) (Sleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed)	Detion, RM= cable to all L RR P, T, U) RR P, T, U) J) MLRA 150A LRR O, S) S, T, U) C	Reduced Matrix, MS=Masked RRs, unless otherwise note Polyvalue Below Surface Thin Dark Surface (S9) Loamy Mucky Mineral Loamy Gleyed Matrix (F3) Redox Dark Surface (F Depleted Matrix (F3) Redox Dark Surface (F Depleted Dark Surface Redox Depressions (F4 Marl (F10) (LRR U) Depleted Ochric (F11) Iron-Manganese Masse Umbric Surface (F13) (Delta Ochric (F17) (ML Reduced Vertic (F18) (Piedmont Floodplain S Anomalous Bright Loan	ed.) ce (S8) (Ll (LRR S, ⁻ (F1) (LRR S, ⁻ (F1) (LRR S, ⁻ (F1) (LRR S, ⁻ (F1) (LRR S, ⁻ (F7) (I (F7) (I (I (I (I (I (I (I (I (I (I	RR S, T, U) F, U) O) I, RR O, P, T U) M, 150B) MLRA 149	² Location: Indicators Indicators I cm 2 cm Reduc Piedrr Anom (ML Red F Uvery S Other) ³ Indi we un	PL=Pore Lining, M= s for Problematic Hy Muck (A9) (LRR O) Muck (A10) (LRR S) ced Vertic (F18) (out nont Floodplain Soils alous Bright Loamy S RA 153B) Parent Material (TF2) Shallow Dark Surface (Explain in Remarks cators of hydrophytic tland hydrology must less disturbed or prob	ydric Soils ³ : side MLRA 150A,E (F19) (LRR P, S, T Soils (F20) e (TF12)) vegetation and t be present, olematic.





Photo 3 – Waterway WL002 in Area 19, facing north (upstream) at culvert that extends under 1^{st} View Street



Photo 4 - Waterway WL002 in Area 19, facing south (downstream)



Photo 5 - Waterway WL002 in Area 19, facing right bank (west) and a structure located within the riparian buffer



Photo 6 – Waterway WL002 in Area 19, facing upstream (north)



Photo 7 - Wetland WP003 in Area 19, facing south



Photo 8 - Wetland WP003 in Area 19, facing north


Photo 9 – Area 8 facing south



Photo 10 – Area 8 facing north



Photo 11 – Area 8 facing east



Photo 12 – Area 1 facing north



Photo 13 – Area 1 facing south



Photo 14 – Area 1 facing east



Photo 15 – Area 2 facing south



Photo 16 – Area 2 facing north



Photo 17 - Area 3 overview facing north



Photo 18 – Area 4 facing north



Photo 19 – Area 4 facing south



Photo 22 - Area 6 overview photo facing north



Photo 23 – Area 7 facing north



Photo 24 – Area 7 facing south



Photo 25 – Area 8 facing north



Photo 26 – Area 8 facing south



Photo 27 – Area 8 facing southeast



Photo 28 – Area 8 facing southeast



Photo 29 – Area 8 facing west



Photo 30 – Area 9 facing east



Photo 31 – Area 9 facing southeast



Photo 31 – Area 9 facing west



Photo 31 – Area 10 facing east



Photo 32 – Area 10 facing east



Photo 33 – Area 11 facing north



Photo 34 – Area 11 facing south



Photo 35 – Area 12 facing east