Appendix G: USACE Wetland Determination Forms



Project/Site: Riggs Street		City	y/County: Oxfo	ord/New Haven County Sa	mpling Date: 2023-09-15
Applicant/Owner: Solli Engine			· ·	State: Connecticut	· -
				, Range:	
				convex, none): Convex	
Subregion (LRR or MLRA): R	144A	Lat: 41.44149106		Long: -73.11651751	Datum: WGS 84
Soil Map Unit Name: 47C				NWI classificatio	
Are climatic / hydrologic conditi	ons on the site typ	oical for this time of year?	Yes N	lo (If no, explain in Rema	arks.)
				Are "Normal Circumstances" pres	_
Are Vegetation, Soil	, or Hydrolog	y naturally proble	matic? (If needed, explain any answers in	n Remarks.)
SUMMARY OF FINDING	S - Attach s	ite map showing sa	ampling poir	nt locations, transects, in	nportant features, etc.
			Is the Samp		
Hydrophytic Vegetation Prese	nt? Yes_	No	within a We		No 🗸
Hydric Soil Present? Wetland Hydrology Present?	res_ Yes	No V			·
Remarks: (Explain alternative			if yes, option	nal Wetland Site ID:	
HADDOLOGA.					
HYDROLOGY Wetland Hydrology Indicate	are:			Secondary Indicators	(minimum of two required)
Wetland Hydrology Indicato		choole all that apply		·	(minimum of two required)
Primary Indicators (minimum	or one is requirea;		(DO)	Surface Soil Cra	, ,
Surface Water (A1)		Water-Stained Lea		Drainage Patterr	
High Water Table (A2) Saturation (A3)		Aquatic Fauna (B1 Marl Deposits (B15		Moss Trim Lines Dry-Season Wat	
Water Marks (B1)		Hydrogen Sulfide (Crayfish Burrows	
Sediment Deposits (B2)		Oxidized Rhizosph		· ·	e on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduc	_	Stunted or Stres	
Algal Mat or Crust (B4)		Recent Iron Reduc	` '		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard		
Inundation Visible on Aer	Other (Explain in R	Remarks)	Microtopographi		
Sparsely Vegetated Cond	cave Surface (B8)			FAC-Neutral Tes	st (D5)
Field Observations:					
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):		Wetland Hydrology Present?	Yes No
Describe Recorded Data (stre	am gauge, monito	oring well, aerial photos, p	previous inspect	ions), if available:	
Remarks:					
Tromano.					

SOIL Sampling Point: 1U

Depth	Matrix	to the dep	oth needed to docun Redox	x Features		or commi	ii tiie abseiice	or indicate	Ji 5. <i>j</i>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 4	10YR 2/1	100					Sandy Loam	Α		
4 - 6	10YR 3/4	100					Sandy Loam	Bw1		
6 - 16	10YR 4/6	100					Sandy Loam	Bw2		
-										
-										
								-		
		_								
		_								
							21			
Hydric Soil		oletion, RM	=Reduced Matrix, MS	=Masked	Sand Gra	ains.			Lining, M=Mati matic Hydric \$	
Histosol			Polyvalue Below	v Surface	(S8) (LR f	RR,			(LRR K, L, ML	
	pipedon (A2)		MLRA 149B)						lox (A16) (LRR	
	istic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Mucky M					-	or Peat (S3) (L) (LRR K, L)	.RR K, L, R)
	d Layers (A5)		Loamy Gleyed N			, - /	· · · · · · · · · · · · · · · · · · ·		Surface (S8) (L	RR K, L)
	d Below Dark Surfac	ce (A11)	Depleted Matrix				-		e (S9) (LRR K,	
	ark Surface (A12)		Redox Dark Sur		_`			-	Masses (F12) (I	
	Mucky Mineral (S1) Bleyed Matrix (S4)		Depleted Dark S Redox Depressi		/)				ain Soils (F19)	
	Redox (S5)		Redox Depressi	OIIS (FO)				arent Mater	6) (MLRA 1447 ial (F21)	4, 143, 1490)
	Matrix (S6)								k Surface (TF1:	2)
Dark Su	rface (S7) (LRR R,	MLRA 149	B)				Other	(Explain in	Remarks)	
³ Indicators o	f hydrophytic yegeta	ation and w	etland hydrology mus	t be prese	nt. unles:	s disturbed	l or problemati	C.		
	Layer (if observed)		, , , , , , , , , , , , , , , , , , , ,							
Type:										
Depth (in	ches):						Hydric Soil	Present?	Yes	No 🔽
Remarks:							I			

Project/Site: Riggs Street City/Co	county: Oxford/New Haven County Sampling Date: 2023-09-15					
Applicant/Owner: Solli Engineering, LLC	State: Connecticut Sampling Point: 1W					
Investigator(s): Alexander Wojtkowiak, Jackson Smith Section	on, Township, Range:					
Landform (hillslope, terrace, etc.): Slope Wetland System Local relie						
	Long:73.11690998 Datum: WGS 84					
	NWI classification: R5UBH					
Are climatic / hydrologic conditions on the site typical for this time of year? Ye						
Are Vegetation, Soil, or Hydrology significantly disturb						
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing sam	npling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) Transect Point taken approximately between w "Perimeter Survey Prepared For The William L.	Ives Revocable Trust Riggs Street Oxford,					
Connecticut" prepared by J. Edwards & Associa	-					
wetland soils were delineated by Soil Science a	and Environmental Services, Inc.					
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) Water-Stained Leaves						
High Water Table (A2) Aquatic Fauna (B13)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)						
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced Algal Mat or Crust (B4) Recent Iron Reduction						
Iron Deposits (B5) Thin Muck Surface (C						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	. , , ,					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:	FAC-Neutral Test (D3)					
Surface Water Present? Yes No Depth (inches): 0						
Water Table Present? Yes V No Depth (inches): 12						
Saturation Present? Yes No Depth (inches):	<u>.</u>					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:					
Remarks:						

	VEGETATION –	Use:	scientific	names	of	plants.
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VEGETATION - Use scientific names of plant	s.			Sampling Point: 1W
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?		Dominance Test worksheet:
1. Acer rubrum	20	Species: ✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. Betula alleghaniensis	20		FAC	That Are OBL, FACW, or FAC: 3 (A)
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A/B)
5				
6				Prevalence Index worksheet:
7	40	T-1-1-0		Total % Cover of: Multiply by: OBL species 75 y 1 = 75
Openity of Objects Opening (Distriction 15 ft r	40	= Total Cov	ver	OBL species $\frac{75}{20}$ $x = \frac{75}{40}$ FACW species $\frac{20}{x^2}$ $x = \frac{40}{x^2}$
Sapling/Shrub Stratum (Plot size: 15 ft r) 1. Rosa multiflora	25	V	FACU	FAC species 40 x 3 = 120
· · ·	<u>23</u> 		1700	FACU species 50
2. Salix spp.				UPL species $0 x 5 = 0$
3. Liriodendron tulipifera	10		FACU	Column Totals: 185 (A) 435 (B)
4. Berberis thunbergii		· ——	FACU	Prevalence Index = B/A = 2.35
5. Fagus grandifolia	5		FACU	
6. Hamamelis virginiana	<u>5</u>		FACU	Hydrophytic Vegetation Indicators:
7. Lindera benzoin	5		FACW	1 - Rapid Test for Hydrophytic Vegetation
	70	= Total Cov	ver	 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r)				3 - Prevalence Index is ≤3.0 4 - Morphological Adaptations ¹ (Provide supporting
1. Symplocarpus foetidus	75		OBL	data in Remarks or on a separate sheet)
2. Phragmites australis	10		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Osmundastrum cinnamomeum	5		FACW	The disease of the delice of the design of t
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8.				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines – All woody vines greater than 3.28 ft in
12	90	Total Car		height.
Wester/in Oustral (District 30 ft r		= Total Cov	ver	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				Hydrophytic Vegetation
4				Present? Yes V No No
	0	= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate	e sheet.)			

SOIL Sampling Point: 1W

1-12 10YR 2/1 100	1-12 10YR 2/1 100	0 - 12	Depth inches)	Matrix Color (moist)	%	Color (moist)	x Features %	SType ¹	Loc ²	Texture	Remarks
10YR 3/2 90 10YR 4/6 10 MS M Loamy Sand Bg	10YR 3/2 90 10YR 4/6 10 MS M Loamy Sand Bg	2 - 26 10YR 3/2 90 10YR 4/6 10 MS M Loamy Sand Bg		•		Color (moist)		туре	LOC		
e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	e: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Concentration			_						
ric Soil Indicators: Histosol (A1)	ric Soil Indicators: Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type:	12 - 26	10YR 3/2	90	10YR 4/6	10	MS	М	Loamy Sand	Bg
ric Soil Indicators: Histosol (A1)	ric Soil Indicators: Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type:	-								
ric Soil Indicators: Histosol (A1)	ric Soil Indicators: Histosol (A1)	dric Soil Indicators: Histosol (A1)	-								
ric Soil Indicators: Histosol (A1)	ric Soil Indicators: Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic Epipedon (A2) MLRA 149B) 5 cm Muck (A10) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 6 cm Mucky Place (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 6 cm Mucky Place (S7) (LRR K, L) 6 cm Mucky Place (S7) (LRR K, L) 6 cm Mucky Place (S8) (LRR K, L) 7 cm Mucky Place (S8) (LRR K, L) 8 cm Mucky Place (S8) (LRR K, L) 8 cm Mucky Place (S8) (LRR K, L) 9 cm Mucky Place (S8) (LRR K, L) 9 cm Mucky Place (S8) (LRR K, L) 8 cm Mucky Mineral (F1) (LRR K) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S8) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S9) (LRR K, L) 1 cm Polyvalue Below Surface (S									
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ric Soil Indicators: Histosol (A1)	ric Soil Indicators: Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Peeted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Depleted Surface (S7) (LRR R, MLRA 149B) Idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Depth (inches): Hydric Soil Present? Yes No	_								
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narks:	narks:	narks:	Depth (ind	ches):						Hydric Soil	Present? Yes V No V
			narks:								

Project/Site: Riggs Street		City/0	County: Oxford/New Hav	ren County Sampli	ng Date: 2023-09-15		
Applicant/Owner: Solli Engine			State: Connecticut Sampling Point: 2U				
Investigator(s): Alexander W					-		
Landform (hillslope, terrace, etc							
Subregion (LRR or MLRA): R							
•							
Are climatic / hydrologic conditi							
Are Vegetation, Soil				rcumstances" present?			
Are Vegetation, Soil				lain any answers in Rei			
SUMMARY OF FINDING	-			-			
SOWINART OF THE DIVE	15 - Allacii Si	te map snowing sai		s, transects, impo	Traint leatures, etc.		
Hydrophytic Vegetation Prese	ent? Yes _	No	Is the Sampled Area within a Wetland?	Yes No	V		
Hydric Soil Present?	Yes _	No V					
Wetland Hydrology Present? Remarks: (Explain alternative		No	If yes, optional Wetland Si	te ID:			
HADBOLOGA							
HYDROLOGY Wetland Hydrology Indicate	ure:		Sc	ocondary Indicators (mi	nimum of two required)		
Wetland Hydrology Indicato Primary Indicators (minimum		check all that apply)		-	· · · · · · · · · · · · · · · · · · ·		
Surface Water (A1)	or one is required,	Water-Stained Leave		Surface Soil Cracks (Drainage Patterns (B	` '		
High Water Table (A2)		Aquatic Fauna (B13)		_ Moss Trim Lines (B1	•		
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)							
Water Marks (B1)		Hydrogen Sulfide Od		_ Crayfish Burrows (C8			
Sediment Deposits (B2)		Oxidized Rhizosphe	res on Living Roots (C3)	_ Saturation Vis ble on	Aerial Imagery (C9)		
Drift Deposits (B3)		Presence of Reduce		Stunted or Stressed	Plants (D1)		
Algal Mat or Crust (B4)		Recent Iron Reduction		_ Geomorphic Position			
Iron Deposits (B5)	(5-)	Thin Muck Surface (_ Shallow Aquitard (D3			
Inundation Visible on Aer	• • • •	Other (Explain in Re	emarks)	_ Microtopographic Re			
Sparsely Vegetated Cond	cave Surface (B8)			_ FAC-Neutral Test (D	5)		
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?		Depth (inches):					
Saturation Present?		Depth (inches):		rology Present? Yes	s No_ <u>'</u>		
(includes capillary fringe) Describe Recorded Data (stre	am gauge, monito	oring well, aerial photos, pro	 evious inspections), if availab	ole:			
	33.,	3 - ,					
Remarks:							

Sampling Point: 2U

SOIL

O - 16 10YR 4/3 100 Sandy Loam BW	inches)	Matrix (Section 1)			ox Features	1 . 2	Tard		D	
rec C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. rec C=Concentration, D=Depletion, RM=Reduced Matrix, E3 rec C=Concentration, D=Depletion, RM=Reduced Matrix, E3 rec C=Concentration, D=Depletion, RM=Reduced Matrix. rec C=Concentration. rec C=Concentration.	0 10	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> Type ¹	Loc ²	Texture	Dist	Remarks	
	0 - 16	10YR 4/3	_ 100				Sandy Loam	BW		
	-									
	-				-					
		-								
						_				
				·						
rpe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. rpe: C=Concentration, D=Depletin, RM=Reduced Matrix, MS=Masked Sand Grains. rpe: C=Concentration, D=Depleted indicators. rpe: C=Concentration. rple=Pore Lining, M=Matrix. rlicitors of Problematic Hydric Soils? rpe: Loamy Muck (A10) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (A10) (LRR K, L, MLRA 149B) rpe: Loamy Muck (A10) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpe: Loamy Muck (A10) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, MLRA 149B) rpolyclade ic Ptolyclade (S3) (LRR K, L, R) rpolyclade ic Ptolyclade (S3) (LRR K,	-									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sorm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, LS, LS, LS, LS, LS, LS, LS, LS, LS, LS	-						-			
dric Soil Indicators: Histosol (A1)	-									
dric Soil Indicators: Histosol (A1)										
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sorm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, LS, LS, LS, LS, LS, LS, LS, LS, LS, LS						_				
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sorm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, LS, LS, LS, LS, LS, LS, LS, LS, LS, LS				·						
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sorm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, LS, LS, LS, LS, LS, LS, LS, LS, LS, LS	-									
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, F) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5)			pletion, RM	1=Reduced Matrix, M	S=Masked Sand G	rains.				
Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Hydric Soil Present? Yes No				Debarelya Bala	w Curtoss (CO) (LE	D D			-	
Black Histic (A3)						KK K,		, ,	•	,
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)					,	/ILRA 149B)			. , ,	
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 145, 149) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No V										,
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, F, S,										
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 148, 145, 149) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No V			ice (A11)							
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Depth (inches): Hydric Soil Present? Yes No V								-		
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	-									
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No				Redox Depress	ions (F8)					4A, 145, 14
Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No										12\
Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No			MLRA 149)B)						12)
Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No										
Type: Depth (inches):				etland hydrology mus	st be present, unles	ss disturbed	or problemation	D		
Depth (inches): No		aver lif abserved).							
	strictive L	_ayer (if observed							V	44
marks:	strictive L						Hydria Cail	Drocont?		
	Type: Depth (inc						Hydric Soil	Present?	Yes	No
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u>*</u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u>*</u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u>_</u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	estrictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u>_ </u>
	estrictive L Type:						Hydric Soil	Present?	Yes	_ No
	Type: Depth (inc						Hydric Soil	Present?	Yes	_ No
	estrictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u> </u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No <u>_</u>
	strictive L Type: Depth (inc						Hydric Soil	Present?	Yes	_ No

Project/Site: Riggs Street City/County: Oxford/New Haven Cou	unty Sampling Date: 2023-09-15		
Applicant/Owner: Solli Engineering, LLC State: Co	· -		
Investigator(s): Alexander Wojtkowiak, Jackson Smith Section, Township, Range:			
Landform (hillslope, terrace, etc.): Brook Local relief (concave, convex, none): Linea			
Subregion (LRR or MLRA): R 144A Lat: 41.44237101 Long: -73.1173485			
Soil Map Unit Name: 3 NWI c			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, expla			
	nces" present? Yes No		
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any	answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, trans	sects, important features, etc.		
Wetland Hydrology Present? Yes V No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Transect Point taken approximately between wf-280 & wf-129 as shown in the second	own on the survey titled Riggs Street Oxford,		
Connecticut" prepared by J. Edwards & Associates, LLC dated Janua			
wetland soils were delineated by Soil Science and Environmental Ser	vices, inc.		
HYDROLOGY			
	nIndicators (minimum of two required)		
	ce Soil Cracks (B6)		
	age Patterns (B10)		
	Trim Lines (B16)		
	eason Water Table (C2)		
	Crayfish Burrows (C8)		
	ation Vis ble on Aerial Imagery (C9)		
	ed or Stressed Plants (D1)		
	orphic Position (D2)		
Iron Deposits (B5) Thin Muck Surface (C7) Shallo	w Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microt	opographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8) V FAC-N	Neutral Test (D5)		
Field Observations:			
Surface Water Present? Yes No Depth (inches): 0			
Water Table Present? Yes No Depth (inches):			
Saturation Present? Yes No _ Depth (inches): Wetland Hydrology if (includes capillary fringe)	Present? Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

/EGETATION – Use scientific names of plants	3.			Sampling Point: 2W
Tree Stratum (Plot size: 30 ft r	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
1. Fagus grandifolia	25	<u>Species :</u>	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2. Acer saccharinum	20	~	FACW	(*,)
3. Acer rubrum	15	~	FAC	Total Number of Dominant Species Across All Strata: 9 (B)
4				Percent of Dominant Species That Are ORL FACW or FAC: 66.67 (A/B)
5				That Are OBL, FACW, or FAC: 66.67 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
15 ft	60	= Total Co	ver	OBL species $\frac{5}{33}$ $x = \frac{5}{66}$ FACW species $\frac{33}{30}$ $x = \frac{5}{60}$
Sapling/Shrub Stratum (Plot size: 15 ft r)	7		FACIL	FACW species $\frac{33}{15}$ $x = \frac{66}{45}$ FAC species $\frac{33}{15}$ $x = \frac{45}{15}$
1. Berberis thunbergii			FACU	FACU species 37
2. Lindera benzoin			FACW	UPL species $0 \times 5 = 0$
3. Rosa multiflora			FACU	Column Totals: 90 (A) 264 (B)
4.				Prevalence Index = B/A = 2.93
6.				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
7	45	Total Ca		✓ 2 - Dominance Test is >50%
Hart Otation (Distrator 5 ft r	10	= Total Co	ver	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r) 1. Boehmeria cylindrica	5	~	OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Impatiens capensis		~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Phalaris arundinacea	3		FACW	4
4. Polystichum acrostichoides	2		FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9		·		and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
	15	= Total Co	ver	neight.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2		·		
3				Hydrophytic
4				Vegetation Present? Yes No
	0	= Total Co	ver	

Sampling Point: 2W

SOIL

Profile Desc	ription: (Describe	to the dep	oth needed to docun	nent the in	dicator	or confirm	the absence	of indicato	rs.)
Depth	Matrix			K Features			_		
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type ¹	Loc ²	<u>Texture</u>		Remarks
0 - 10	10YR 3/2	75					Sand	С	
-									
			-						
-									
_									
								-	
-									
¹Type: C=Cc	oncentration D=Den	letion RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² l ocation	: PI =Pore I	 _ining, M=Matrix.
Hydric Soil I				doi.lou	010				natic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belov	V Surface (S8) (LRF	RR,	2 cm N	Лuck (А10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B)					Prairie Redo	ox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa						or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky N		(LRR K	, L)		Surface (S7)	
	l Layers (A5) I Below Dark Surface	- (Δ11)	Loamy Gleyed I Depleted Matrix						urface (S8) (LRR K, L) (S9) (LRR K, L)
	rk Surface (A12)	3 (7 (1 1)	Redox Dark Sui						lasses (F12) (LRR K, L, R)
	ucky Mineral (S1)		Depleted Dark S		')			-	in Soils (F19) (MLRA 149B)
	leyed Matrix (S4)		Redox Depress	ons (F8)					i) (MLRA 144A, 145, 149B)
	edox (S5)							arent Materia	
	Matrix (S6)		- \						Surface (TF12)
Dark Sur	face (S7) (LRR R, N	ILRA 149	B)				<u>V</u> Other	(Explain in R	remarks)
			etland hydrology mus	t be preser	nt, unless	disturbed	or problemation	c .	
	.ayer (if observed): nd, Gravel, Cobb		rock						
,, <u> </u>		ies, beui	OCK				Hydric Soil	Procent?	Yes No
Depth (inc	thes): 10						riyuric 30ii	rieseiit:	165 NU
Remarks:									
Sampling	g Point Withi	n Broo	k						

Project/Site: Riggs Street		City/	County: Oxford/Ne	ew Haven County Sa	mpling Date: 2023-09-15
Applicant/Owner: Solli Engine			-	State: Connecticut	·
Investigator(s): Alexander W					
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA): R	144A	Lat: 41.44108194	Long:	-73.12141695	Datum: WGS 84
Soil Map Unit Name: 73C				NWI classificatio	
Are climatic / hydrologic conditi	ons on the site typ	oical for this time of year?	Yes No	(If no, explain in Rema	arks.)
Are Vegetation, Soil				ormal Circumstances" prese	_
Are Vegetation, Soil	, or Hydrolog	y naturally problen	natic? (If need	ded, explain any answers in	Remarks.)
SUMMARY OF FINDING	S - Attach s	ite map showing sa	mpling point loc	ations, transects, in	nportant features, etc.
			Is the Sampled A		
Hydrophytic Vegetation Prese	ent? Yes _	No V	within a Wetland		No 🗸
Hydric Soil Present? Wetland Hydrology Present?	Yes	No	If was optional Wa	etland Site ID:	
Remarks: (Explain alternative			ii yes, optional we	etiand Site ID.	
HYDROLOGY					
Wetland Hydrology Indicate	rs.			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum		check all that apply)		Surface Soil Crac	
Surface Water (A1)	or one is required,	Water-Stained Leav	/es (B9)	Drainage Pattern	` ,
High Water Table (A2)		Aquatic Fauna (B13		Moss Trim Lines	
Saturation (A3)		Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)		Hydrogen Sulfide O		Crayfish Burrows	
Sediment Deposits (B2)		Oxidized Rhizosphe	eres on Living Roots (C3) Saturation Vis ble	e on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduce	` '	Stunted or Stress	sed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduct	,	· — ·		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard		
Inundation Visible on Aer		Other (Explain in Re	emarks)	Microtopographic	
Sparsely Vegetated Cond Field Observations:	cave Surface (B8)			FAC-Neutral Tes	it (D5)
Surface Water Present?	Ves No	Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?		Depth (inches):		and Hydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stre	eam gauge, monito	oring well, aerial photos, pi	revious inspections).	if available:	
(****	33.,	3 1 , ,,			
Remarks:					

	VEGETATION –	Use:	scientific	names	of	plants.
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•				Sampling Point: 3U
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	25	<u>opedies:</u> ✓	FAC	Number of Dominant Species
2. Quercus alba	20		FACU	That Are OBL, FACW, or FAC: 1 (A)
3. Fagus grandifolia	10		FACU	Total Number of Dominant Species Across All Strata: 6 (B)
4. Ulmus americana	5		FACW	Sporice / terese / till etilata:
	-			Percent of Dominant Species That Are OBL, FACW, or FAC: 16.67 (A/B)
5				
6				Prevalence Index worksheet:
7	00			Total % Cover of: Multiply by:
45.6	60	= Total Cov	er	OBL species $\frac{0}{5}$ $x_1 = \frac{0}{10}$
Sapling/Shrub Stratum (Plot size: 15 ft r)			E 4 O L L	77.017 species X2 =
1. Hamamelis virginiana	40		FACU	FAC species $\frac{25}{110}$ $x = \frac{75}{440}$
2. Betula lenta	15		FACU	UPL species 95 x 5 = 475
3. Fagus grandifolia	15		FACU	Column Totals: 235 (A) 1000 (B)
4. Liriodendron tulipifera	10		FACU	
5				Prevalence Index = B/A = 4.26
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r				3 - Prevalence Index is ≤3.0 ¹
1. Dennstaedtia punctilobula	95	~	UPL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2.				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10	· ·			Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12	<u> </u>			Woody vines – All woody vines greater than 3.28 ft in
	95	= Total Cov	er	height.
Woody Vine Stratum (Plot size: 30 ft r)				
vvoody vine Stratum (Plot size: 30 111				
1				
1	<u> </u>			Hydrophytic
1				Hydrophytic Vegetation
1				

Sampling Point: 3U

Depth	Matrix		oth needed to document the indicator or confirm Redox Features		•
(inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ²	Texture	Remarks
0 - 2	10YR 2/2	100		Sandy Loam	<u>A</u>
2 - 12	10YR 4/3	100		Sandy Loam	Bw1
12 - 16	10YR 4/6	100		Sandy Loam	Bw2
	-				
	-				
-					
_					
¹ Type: C=C	oncentration, D=D	epletion, RM	I=Reduced Matrix, MS=Masked Sand Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil		•	,		for Problematic Hydric Soils ³ :
Black H Hydroge Stratified Deplete Thick Da Sandy M Sandy F Stripped Dark Su Indicators o	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R of hydrophytic vege	, MLRA 149	Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) B) etland hydrology must be present, unless disturbed of the surface (F7)	Coast 5 cm M Dark S Polyva Thin D Iron-M Piedm Mesic Red P Very S Other	Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Burface (S7) (LRR K, L) Burlace (S8) (LRR K, L) Burlace (S9) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) Burlace (TA6) (MLRA 144A, 145, 149B) Burlace (TF12) B

Project/Site: Riggs Street	City/County: Oxford/New H	laven County Sampling	Date: 2023-09-15
Applicant/Owner: Solli Engineering, LLC		State: Connecticut Samplin	ng Point: 3W
Investigator(s): Alexander Wojtkowiak, Jackson			<u> </u>
Landform (hillslope, terrace, etc.): Brook			Slope (%): 3
Subregion (LRR or MLRA): R 144A Lat:		3.12099045	
	25/1g.		
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology		I Circumstances" present?	Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, e	explain any answers in Rema	arks.)
SUMMARY OF FINDINGS – Attach site m		ons, transects, import	ant features, etc.
Hydric Soil Present? Yes	ely between wf-490 & wf-56 he William L. Ives Revocable	3 as shown on the Trust Riggs Stree	e survey titled
wetland soils were delineated by	Soil Science and Environmer	ital Services, inc.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (minim	
Primary Indicators (minimum of one is required; check		Surface Soil Cracks (B6	*
<u> </u>	Water-Stained Leaves (B9)	Drainage Patterns (B10))
	Aquatic Fauna (B13)	Moss Trim Lines (B16)	
	Marl Deposits (B15)	Dry-Season Water Tabl	le (C2)
	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)	
		Saturation Vis ble on Ae	
	Presence of Reduced Iron (C4)	Stunted or Stressed Pla	
1	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D	02)
	Thin Muck Surface (C7)	Shallow Aquitard (D3)	(() ()
	Other (Explain in Remarks)	Microtopographic Relief	f (D4)
Sparsely Vegetated Concave Surface (B8) Field Observations:		FAC-Neutral Test (D5)	
	Donath (in all a a). O		
	Depth (inches): 0		
	Depth (inches):		.
Saturation Present? Yes No No	Depth (inches): Wetland F	Hydrology Present? Yes _	No
Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, previous inspections), if ava	nilable:	
Remarks:			
Remarks.			

	S.			Sampling Point: 3W
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?		Dominance Test worksheet:
1. Betula alleghaniensis	30	Species?	FAC	Number of Dominant Species
2. Fagus grandifolia	20	~	FACU	That Are OBL, FACW, or FAC: 6 (A)
3. Acer rubrum	15		FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 85.71 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	65	= Total Co	ver	OBL species 35 x 1 = 35
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 25 x 2 = 50
1. Betula alleghaniensis	20	~	FAC	FAC species 65 $x 3 = 195$
2. Lindera benzoin	15	~	FACW	FACU species $\frac{35}{2}$ $x 4 = \frac{140}{2}$
3. Catalpa speciosa	5		FACU	UPL species $\frac{0}{100}$ x 5 = $\frac{0}{100}$
4. Liriodendron tulipifera	5		FACU	Column Totals: <u>160</u> (A) <u>420</u> (B)
5. Rosa multiflora	_ -		FACU	Prevalence Index = B/A = 2.63
· ·			1700	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
- 2.	50	= Total Co	ver	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r				4 - Morphological Adaptations ¹ (Provide supporting
1. Lysimachia thyrsiflora	15		OBL	data in Remarks or on a separate sheet)
2. Osmundastrum cinnamomeum	10		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Boehmeria cylindrica	5		OBL	¹ Indicators of hydric soil and wetland hydrology must
4. Carex diandra	5		OBL	be present, unless disturbed or problematic.
_{5.} Symplocarpus foetidus	5	·	OBL	Definitions of Vegetation Strata:
6. Viola cucullata	5		OBL	
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines – All woody vines greater than 3.28 ft in
12	4 =	T 0		height.
20 ft r	43	= Total Co	ver	
Woody Vine Stratum (Plot size: 30 ft r)				
1	_			
2				Hydrophytic
2		-		
				Vegetation Present? Yes No

SOIL Sampling Point: 3W

Profile Desc	ription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirn	n the absence	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0 - 16	10YR 2/2	100					Sandy Loam	<u>A</u>
16 - 18	10YR 5/1	80	10YR 5/6	20	С	M	Sandy Loam	Bg
_								
								-
		<u> </u>			-			
					-			
		_,						
-								
_								
	-		-	· ——	-			·
				-				
		_						
					_			
¹Type: C=Ce	oncentration, D=Dep	oletion, RN	M=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil							Indicators	for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov		(S8) (LR	R R,		Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B)	'		I D A 440D		Prairie Redox (A16) (LRR K, L, R)
	stic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Mucky N					Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed			·, - /		alue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix		,			Park Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Redox Dark Su	rface (F6))		Iron-M	langanese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark		F7)			ont Floodplain Soils (F19) (MLRA 149B)
	Sleyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)							arent Material (F21)
	l Matrix (S6) rface (S7) (LRR R, I	MI DA 140	IR)					Shallow Dark Surface (TF12) (Explain in Remarks)
Daik Su	nace (37) (LKK K, I	WILKA 148	, oo,				<u>•</u> Other	(Explain in Remarks)
			etland hydrology mus	st be pres	ent, unles	s disturbed	or problemation	c.
	Layer (if observed)	:						
Type: Co							Hudria Cail	Present? Yes V No No
	ches): 2						Hydric Soil	resent? res No
Remarks:								
Samplin	g Point Withi	in Broo	ok					

Riggs Street Oxford, CT 06478

United States Army Corps of Engineers Wetland Delineation <u>Site Photos</u>

Federal Wetland Delineation Plot ID: 1W



Federal Wetland Delineation Plot ID: 1U



Riggs Street Oxford, CT 06478

United States Army Corps of Engineers Wetland Delineation <u>Site Photos</u>

Federal Wetland Delineation Plot ID: 2W



Federal Wetland Delineation Plot ID: 2U



Riggs Street Oxford, CT 06478

United States Army Corps of Engineers Wetland Delineation <u>Site Photos</u>

Federal Wetland Delineation Plot ID: 3W



Federal Wetland Delineation Plot ID: 3U

