

WATERSHED PROTECTION DEPARTMENT

P.O. Box 548 Pittsboro, NC 27312 PHONE: (919) 545-8394

Fax: (919) 542-2698 • E-mail: drew.blake@chathamcountync.gov • Website: www.chathamcountync.gov

April 18, 2022

Mr. Steven Ball Soil & Environmental Consultants, PA 8412 Falls of Neuse Road, Suite 104 Raleigh, North Carolina 27615

Project Name: Fearrington Big Hole Property Parcel # 95264

Location: <u>Big Hole Road, Chatham County</u>

Subject Features: Three (3) ephemeral stream segments, two (2)

intermittent stream segments, one (1) perennial stream

segment, and two (2) potential wetlands.

Date of March 28, 2022

Determination:

Explanation:

The site visit was completed on March 28, 2022, by Drew Blake with Chatham County Watershed Protection and Steven Ball of Soil & Environmental Consultants, PA. (S&EC), on Parcel # 95264 that is located within the Jordan Lake watershed. S&EC personnel completed a previous site visit which resulted in the identification of three (3) ephemeral stream segments, two (2) intermittent stream segments, one (1) perennial stream segment, and two (2) potential wetlands on the property. S&EC submitted a request for Chatham County to complete a formal review to determine if the features would be subject to riparian buffers according to Section 304 of the Chatham County Watershed Protection Ordinance.

All points of origin, stream type transitions, and wetland boundaries were reviewed and agreed to in the field by all parties in attendance.

Required Riparian Buffers:

All ephemeral stream segments will require a 30-ft buffer from the top of bank landward on both sides. All intermittent stream segments will require a 50-ft buffer from the top of bank landward on both sides. The perennial stream segment will require a 100-ft buffer from the top of bank landward on both sides. A 50-ft buffer will be required on all wetlands from the flagged boundary landward.

Impacts to Riparian Buffers:

Impacts to the riparian buffers may require a Riparian Buffer Authorization depending on the size and scope of the impacts. Please refer to Section 304 (J)(3) of the Chatham County Watershed Protection Ordinance to determine if your impacts will require a Riparian Buffer Authorization. If you determine that a Riparian Buffer Authorization is required please contact Drew Blake to receive the required application and submittal instructions.

This on-site determination shall expire five (5) years from the date of this letter. Landowners or affected parties that dispute a determination made by Chatham County, on parcels outside of the Jordan Lake watershed, may submit a request for appeal in writing to the Watershed Review Board. A request for a



WATERSHED PROTECTION DEPARTMENT

P.O. Box 548 Pittsboro, NC 27312 PHONE: (919) 545-8394

Fax: (919) 542-2698 • E-mail: drew.blake@chathamcountync.gov • Website: www.chathamcountync.gov

determination by the Watershed Review Board shall be made in accordance with Section 304 of the Chatham County Watershed Protection Ordinance. Landowners or affected parties that dispute a determination made by Chatham County, on parcels inside the Jordan Lake watershed, shall submit a request for appeal in writing to NC DWR, 401 & Buffer Permitting Unit, 1650 Mail Service Center, Raleigh, NC 27669-1650 attention of the Director of the NC Division of Water Quality.

Should this project result in any direct impacts to surface water features (i.e., crossing and/or filling streams or wetlands) additional reviews may be necessary. Additionally, a Section 404/401 Permit may be required. Any inquiries regarding Section 404/401 permitting should be directed to the Division of Water Resources (Central Office) at (919)-807-6364 and the US Army Corp of Engineers (Raleigh Regulatory Field Office) at (919)-554-4884.

Respectfully,

Drew Blake

Drew Blake

Senior Watershed Specialist, CESSWI

Enclosures:

Figure 1: USGS Topographic Map - Completed by S&EC

Figure 2: NRCS Soil Survey – Completed by S&EC

Figure 3: Wetland Sketch Map – Completed by S&EC

S&EC Stream ID Forms

S&EC Wetland Data Form

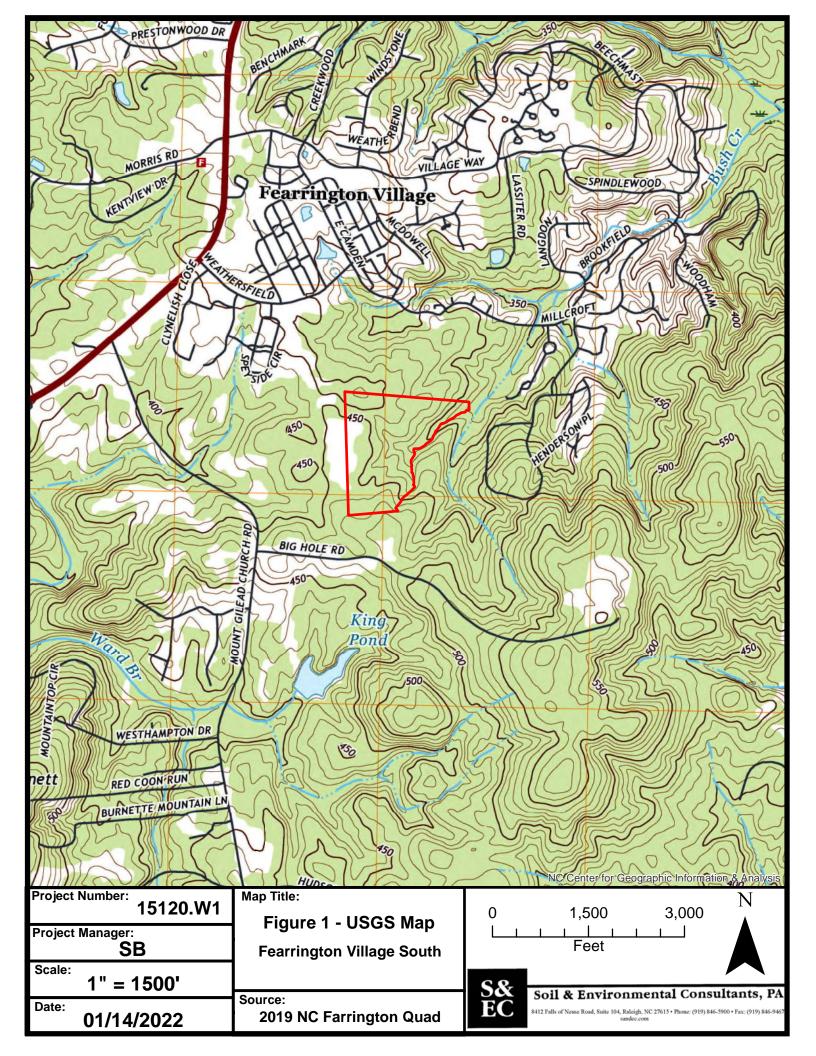
Major Subdivision Riparian Buffer Application

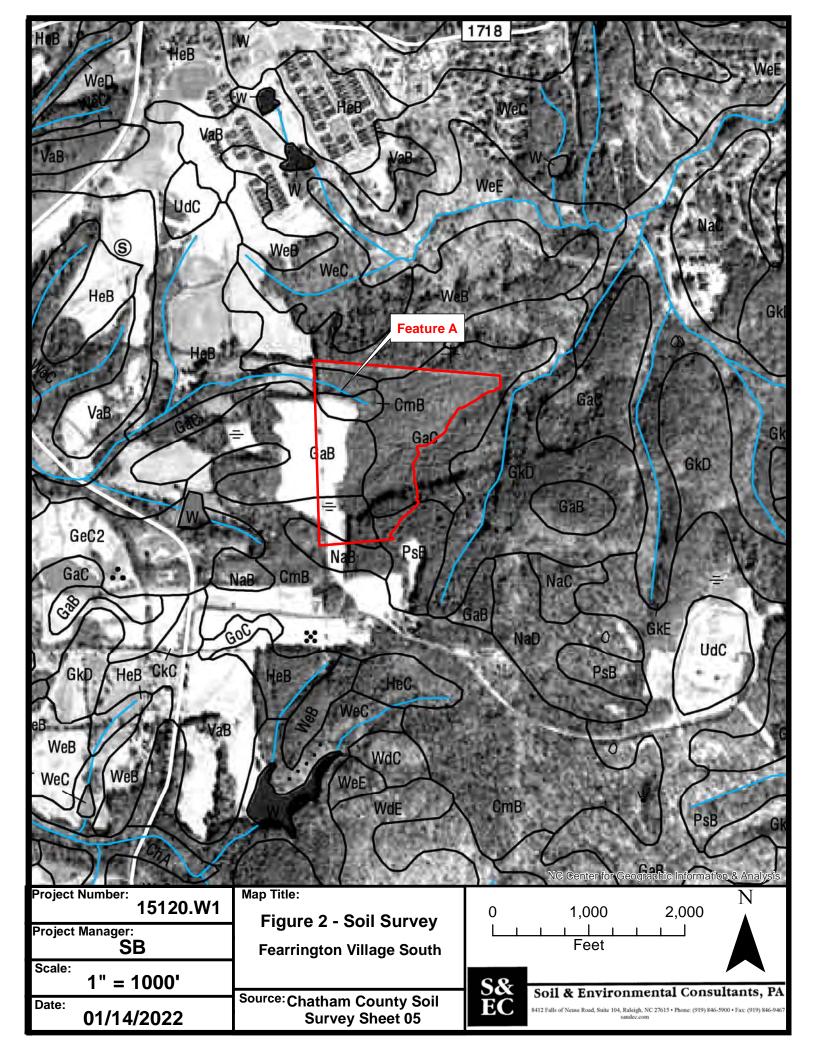
Authorized Agent Form

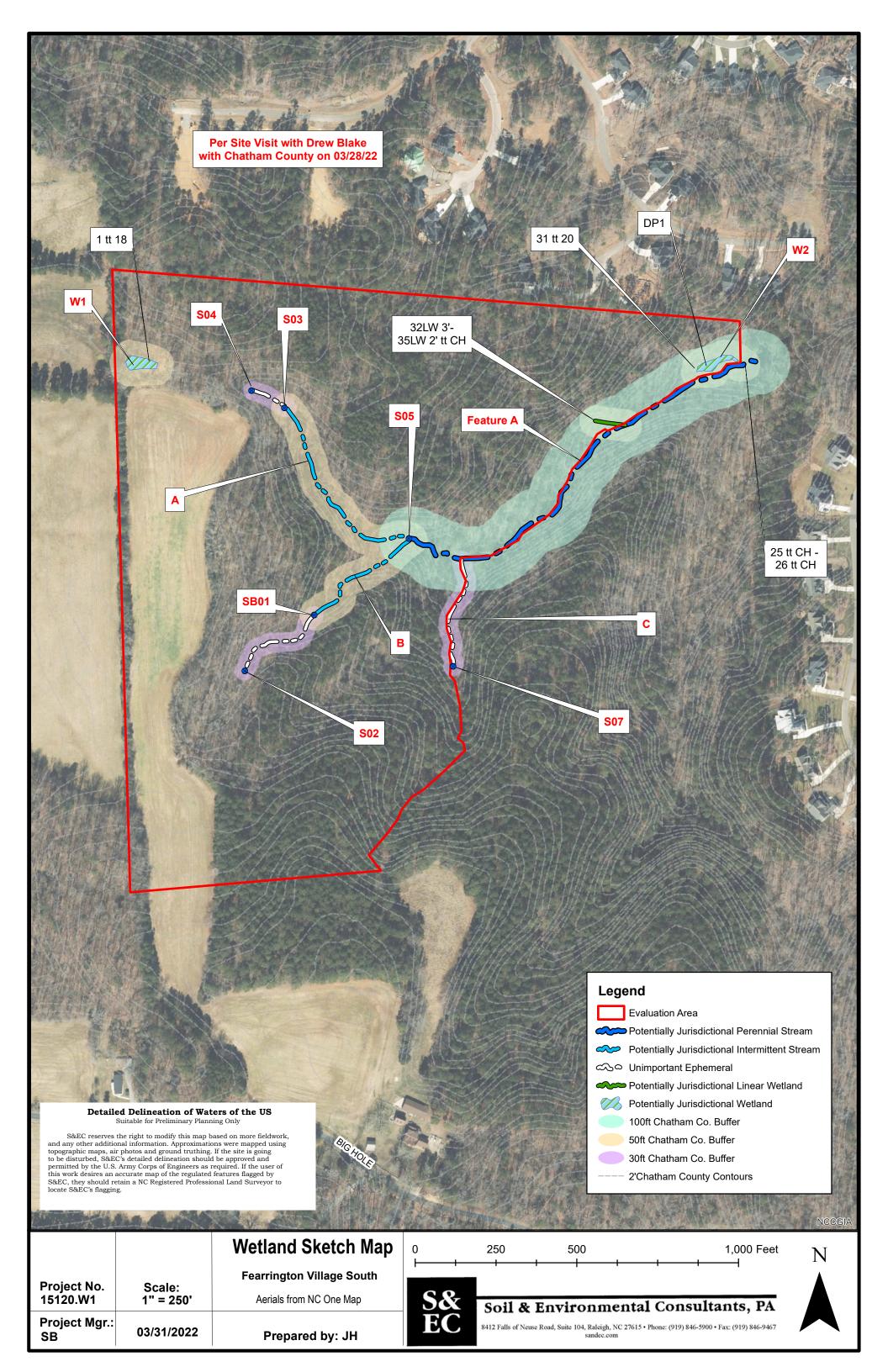
Authorization to Enter Property Form Site Photographs – provided by S&EC

one i notographs provided by seeme

cc: Rachael Thorn, Director, Chatham County Watershed Protection Department Kimberly Tyson, Planner II/Subdivision Administrator, Chatham County Planning Department Angela Plummer, Planner II/Zoning Administrator, Chatham County Planning Department Jason Sullivan, Director, Chatham County Planning Department







Project/Site: F	'arrington	Latitude: 35.	787774	
County: Ch	ethen	Longitude: -7	9.086719	
Stream Determin	nation (circle one)	Other e.g. Quad Name:		
Absent	Weak	Moderate	Strong	
0	(1)	2	3	
0	0	2	3	
0	1	2	3	
0	11	2	3	
0	1	2	3	
0	1	2	3	
0	1	2	3	
0	1	2	3	
0	(0.5)	1	1.5	
0	0.5	1	1.5	
	=0)	Yes =	= 3	
0	1	2	3	
(0)	1	2	3	
1.5	(1)	0.5	0	
0		1	1.5	
0	0.5	0	1.5	
No	₹	Yes :	= 3	
3 1	2	0	0	
3	2	Ø	0	
(0)	1	2	3	
	1	2	3	
	0.5	1	1.5	
6	0.5	1	1.5	
	0.5	1	1.5	
/ (0)	0.0			
9		1	1.5	
8	0.5	1 L = 1.5 Other€0	1.5	
ds. See p. 35 of manua	0.5 FACW = 0.75; OB			
	Absent O O O O O O O O O O O O O	Stream Determination (circle one) Ephemeral Intermittent Perennial	County: Chathan Congitude: -7	

Date: 1/25/2022	Project/Site:	illage	Latitude: 35.	78823	
Evaluator: SJEC-K. MURPHREG	County: Ch		Other e.g. Quad Name:		
Total Points: Stream is at least intermittent if ≥ 19 or perennial if $\geq 30^*$	Stream Determine	nation (circle one) mittent Perennial			
A. Geomorphology (Subtotal = 12	Absent	Weak	Moderate	Strong	
1ª Continuity of channel bed and bank	0	1	2	(3)	
Sinussity of channel along thalwag	0	(1)	2	3	
In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	Q	2	3	
Particle size of stream substrate	0	(1)	2	3	
5. Active/relict floodplain	0	(1)	2	3	
6. Depositional bars or benches	0	0	2	3	
7. Recent alluvial deposits	0	(1)	2	3	
8. Headcuts	Q	1	(2)	3	
9. Grade control	(ó)	0.5	1	1.5	
10. Natural valley	Ŏ I	0.5	(1)	1.5	
11. Second or greater order channel artificial ditches are not rated; see discussions in manual	No	(0)	Yes	= 3	
B. Hydrology 7					
12. Presence of Baseflow	0	11	(2)	3	
13. Iron oxidizing bacteria	(0)	1	2	3	
14. Leaf litter	1,5	(1)	0.5	0	
15. Sediment on plants or debris	(0)	0.5	1	1.5	
16. Organic debris lines or piles	Ō	0.5	(1)	1.5	
17. Soil-based evidence of high water table?	No) = 0	Yes	€3)	
C. Biology (Subtotal = 5)					
18. Fibrous roots in streambed	3	(2)	1	0	
19. Rooted upland plants in streambed	(3)	2	11	0	
20. Macrobenthos (note diversity and abundance)	0	1	2	3	
21. Aquatic Mollusks	(0)	1	2	3	
22. Fish	(0)	0.5	1	1.5	
23. Crayfish	(0)	0.5	11	1.5	
24. Amphibians	Œ.	0.5	1	1.5	
25. Algae	(0)	0.5	1	1.5	
26. Wetland plants in streambed		FACW = 0.75; OB	L = 1.5 Other =)	
*perennial streams may also be identified using other methods	s. See p. 35 of manua	ıl			
Notes:					
Sketch					

weak 1 1 1 1 1 1 1 1 1 1 1 1 1	Latitude: 35, Longitude: — Other e.g. Quad Name: Moderate 2 (2) 2 2 2 2 2 1 (1) Yes:	Strong (3) 3 3 3 3 1.5 1.5
weak 1 1 1 1 1 1 1 1 1 1 1 1 1	e.g. Quad Name: Moderate 2 (2) 2 2 2 2 2 1 (1) Yes	Strong (3) 3 3 3 3 3 3 1.5 1.5 = 3
1 1 1 1 1 (1) (1) (1) (1) (1) (1) (1) (1	2 (2) 2 (2) 2 2 2 2 1 (1) Yes	(3) 3 3 3 3 3 3 3 1.5 1.5 = 3
1 1 1 1 1 (1) (1) (1) (1) (1) (1) (1) (1	2 (2) 2 2 2 2 2 1 (1) Yes	3 3 3 3 3 3 1.5 1.5 = 3
1 1 1 1 (1) (1) (1) (1) (0.5 0.5 0.5 0 = 0	2 (2) 2 2 2 2 2 1 (1) Yes	3 3 3 3 3 3 1.5 1.5 = 3
1 1 1 (1) (1) (1) 0.5 0.5 0.5 0 = 0	2 (2) 2 2 2 2 2 1 (1) Yes	3 3 3 3 1.5 1.5 = 3
1 (1) (1) (1) (1) 0.5 0.5 0.5 0 = 0	2 2 2 2 1 (1) Yes	3 3 3 1.5 1.5 = 3
(1) (1) (1) (1) (0.5) (0.5) (0.5) (1) (1)	2 2 2 1 (1) Yes	3 3 3 1.5 1.5 = 3
(1) (1) 0.5 0.5 0.5 0 = 0	2 2 1 (1) Yes :	3 3 1.5 1.5 = 3
0.5 0.5 0.5 0 = 0	2 1 (1) Yes:	3 1.5 1.5 = 3
0.5 0.5 0 = 0	1 Yes :	1.5 1.5 = 3
0.5	(1) Yes:	1.5
1 1	Yes : 2 2	3
1 1	2	3
1	2	
1	2	
1	2	
		1 3
1 1.		
	0.5	0
0.5	1	1.5
0.5	(1)	1.5
o = 0	Yes	(3)
2	1	0
2	1	0
(1)	2	3
1		3
0.5		1.5
0.5	1	1.5
0.5	11	1.5
	1	1.5
FACW = 0.75; OE	3L = 1.5 Other =(0)
al		
Ja	0.5 0.5 0.5 0.5	0.5 1 0.5 1 0.5 1 0.5 1 0.5 1 FACW = 0.75; OBL = 1.5 Other =

Date: //25/2022_	Project/Site: Fe	errington	Latitude:35.7	190316		
Date: 1/25/2022_ Evaluator: ATK + Km	Project/Site: Fe	ham	Longitude: -79.086360			
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*	Stream Determin	ation (circle one) mittent Perennial	Other e.g. Quad Name:			
A. Geomorphology (Subtotal = 7)	Absent	Weak	Moderate	Strong		
1ª. Continuity of channel bed and bank	0	1	(2)	3		
2. Sinuosity of channel along thalweg	0	1	2	3		
In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	①->	2	3		
Particle size of stream substrate	0	O	2	3		
5. Active/relict floodplain	6)	1	2	3		
6. Depositional bars or benches	(0)	1	2	3		
7. Recent alluvial deposits	0	1	2	3		
8. Headcuts	0	1	2	3		
9. Grade control	0	0.5	1	1.5		
10. Natural valley	0	0.5	(1)	1.5		
11. Second or greater order channel	No	€0)	Yes =	= 3		
artificial ditches are not rated; see discussions in manual	*					
B. Hydrology (Subtotal = Z)						
12. Presence of Baseflow	0	1	2	3		
13. Iron oxidizing bacteria	0	1	2	3		
14. Leaf litter	1.5	0	0.5	0		
15. Sediment on plants or debris	0	0.5	0	1.5		
16. Organic debris lines or piles	0	0.5	1	1.5		
17. Soil-based evidence of high water table?	No	€0)	Yes	= 3		
C. Biology (Subtotal = 2)						
18. Fibrous roots in streambed	3	2	0	0		
19. Rooted upland plants in streambed	3	2	①	0		
20. Macrobenthos (note diversity and abundance)	0	1	2	3		
	0	1	2	3		
21. Aquatic Mollusks	(9)	0.5	1	1.5		
		0.5	1	1.5		
22. Fish	0					
22. Fish 23. Crayfish	8	0.5	1	1.5		
21. Aquatic Mollusks 22. Fish 23. Crayfish 24. Amphibians 25. Algae	0	0.5 0.5	1	1.5		
22. Fish 23. Crayfish 24. Amphibians 25. Algae	0	0.5	1	1.5		
22. Fish 23. Crayfish		0.5 0.5 FACW = 0.75; OB	1	1.5		

Project/Site: Fe	errington	Latitude: 35.	789135	
County: Chat	them	Longitude: -79.083807		
Stream Determin Ephemeral Inter	nation (circle one) mittent (Perennial)	Other e.g. Quad Name;	- ±	
Absent	Weak	Moderate	Strong	
0	1	2	3	
0	1	2	3	
0	1	2	3	
0	1	2	(3)	
0	1	2	3	
0	1	(2)	3	
0	①	2	3	
0	1	2	3	
0	0.5		1.5	
0	0.5	0	1.5	
No	= 0	Yes	3)	
0 1	1	2	(3)	
			3	
			0	
			1.5	
			1.5	
110		100		
(3)	2	1 1	0	
			0	
			3	
			3	
			1.5	
		1	1.5	
(6)			1.0	
(6)		1	1.5	
(b)	0.5	1	1.5	
77	0.5 0.5	1	1.5	
(b)	0.5 0.5 FACW = 0.75; OBL	1	1.5	
	Stream Determine Ephemeral Inter Absent 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	County: Chatham Stream Determination (circle-one) Ephemeral Intermittent Perennial	County: Chethem Circle-one Ephemeral Intermittent (Perennia) Other e.g. Quad Name:	

Date: (/25/202 2	Project/Site:	06/Feature	Latitude: 35.	788826		
Evaluator: SJEC-K.MulPhrey	County: Char		Longitude: -79. 08424			
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*	Stream Determin	nation (circle one) mittent Perennial	Other e g. Quad Name:			
A. Geomorphology (Subtotal = 10)	Absent	Weak	Moderate	Strong		
1ª Continuity of channel bed and bank	0	1	(2)	3		
Sinuosity of channel along thalweg	0	(1)	2	3		
In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3		
4. Particle size of stream substrate	0	1	(2)	3		
5. Active/relict floodplain	0	(1)	2	3		
6. Depositional bars or benches	(0)	1	2	3		
7. Recent alluvial deposits	(0)	1	2	3		
8. Headcuts	Q	11	(2)	3		
9. Grade control	0	0.5	X	1.5		
10. Natural valley	0	0.5	(1)	1.5		
11. Second or greater order channel	No	70)	Yes = 3			
artificial ditches are not rated; see discussions in manual						
B. Hydrology /)	0	1	(2)	3		
12. Presence of Baseflow			2	3		
13. Iron oxidizing bacteria	(0)	1	0.5	0		
14. Leaf litter	1.5	(1)	1	1.5		
15. Sediment on plants or debris	(0)	0.5	(1)	1.5		
16. Organic debris lines or piles		0.5	Yes			
17. Soil-based evidence of high water table?	INC) – 0	103			
C. Biology (Subtotal = 5_)		(a)	1	0		
18. Fibrous roots in streambed	3	2	1	0		
19. Rooted upland plants in streambed	(3)	2	2	3		
20. Macrobenthos (note diversity and abundance)	(2)		2	3		
21. Aquatic Mollusks	(6)	1	1	1.5		
22. Fish	(0)	0.5	1	1.5		
23. Crayfish		0.5	1	1.5		
24. Amphibians	(0)	0.5	1	1.5		
25. Algae	(0)	0.5 FACW = 0.75; OB	U = 1 F Other =	4-3-		
26. Wetland plants in streambed	1000		SE - 1.5 Other -/	0		
	ods. See p. 35 of manua	II.				
*perennial streams may also be identified using other meth Notes:						

NC DWQ Stream Identification Form	Version 4.1	507/Feat	ure C		
Date: 1/25/2022	Project/Site: F	earrington	Latitude: 35, 788384		
Evaluator: SHEC-K. MUVPHILLY	County: Ch	497	Longitude: - 79, 08443		
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*	Stream Determi Ephemeral Inte	nation (circle one) rmittent Perennial	Other e.g. Quad Name:		
A. Geomorphology (Subtotal = 5,5)	Absent	Weak	Moderate	Strong	
1 ^a Continuity of channel bed and bank	0	(1)	2	3	
Sinuosity of channel along thalweg	0	(1)	2	3	
In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	0	2	3	
Particle size of stream substrate	(0)	1	2	3	
5. Active/relict floodplain	Q	1	(2)	3	
6. Depositional bars or benches	(0)	1	2	3	
7. Recent alluvial deposits	(0)	1	2	3	
8. Headcuts	(0)	1	2	3	
9. Grade control	(0)	0.5	1	1.5	
10. Natural valley	0	(0.5)	1 1	1.5	
11. Second or greater order channel	No	o (0)	Yes	= 3	
artificial ditches are not rated; see discussions in manual		0			
B. Hydrology					
12. Presence of Baseflow	0	1	2	3	
13. Iron oxidizing bacteria	(0)	1	2	3	
14. Leaf litter	1.5	1	(0.5)	0	
15. Sediment on plants or debris	(0)	0,5	1	1.5	
16. Organic debris lines or piles	0	(0.5)	1	1.5	
17. Soil-based evidence of high water table?	No	(0 ± c	Yes	= 3	
C. Biology (Subtotal = H)					
18. Fibrous roots in streambed	3	2	(1)	0	
19. Rooted upland plants in streambed	(3)	2	1	0	
20. Macrobenthos (note diversity and abundance)	0	1 1	2	3	
21. Aquatic Mollusks	(0)	1	2	3	
22. Fish	(0)	0.5	11	1.5	
23. Crayfish	0	0.5	1	1.5	
24. Amphibians	(0)	0.5	1	1.5	
25. Algae	(0)	0.5	1	1.5	
26. Wetland plants in streambed	H	FACW = 0.75; OBI	$L = 1.5$ Other $\neq 0$	5')	
*perennial streams may also be identified using other methods	s. See p. 35 of manua	al.		<u> </u>	
Notes:					
Sketch					

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

Project/Site: Fearrington Village South	City/County: Chatham	Sampling Date: 1/25/2022
Applicant/Owner: Fitch Creations, INC		State: NC Sampling Point: DP1
Investigator(s): S&EC- AJ Kamal + Kevin Mur	phrey Section, Township, Range	e: Chapel Hill
Landform (hillside, terrace, etc.): Flooplain	Local relief (concave, convex	, none): Convex Slope (%): 2-4
Subregion (LRR or MLRA): LRR P, MLRA 13	6 Lat: 35.790567 Long:	-79.081743 Datum: NAD 83
Soil Map Unit Name: GaC	<u></u>	NWI classification: N/A
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold		Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrold		xplain any answers in Remarks.)
<u>——</u> ——		ions, transects, important features, etc.
' ' ' '	/es No Is the Sampled Area	
'	/es X No within a Wetland?	Yes _ X _ No
, 0,	/esXNo	
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 Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
X High Water Table (A2)	Hydrogen Sulfide Odor (C1)	X Drainage Patterns (B10)
X Saturation (A3)	X Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes x	No Depth (inches): 5	
Saturation Present? Yes x	No Depth (inches): 0 Wetland	Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous inspections), if a	available:
Remarks:		

ree Stratum (Plot size: 30ft X 30ft)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Platanus occidentalis		30	Yes	FACW			
ratarias ocoidentaris			103	TAOV	Number of Dominant Species That Are OBL, FACW, or FAC:	5	(A)
·					Total Number of Dominant Species Across All Strata:	6	_(B)
					Percent of Dominant Species That Are OBL, FACW, or FAC:	83.3%	(A/B)
					Prevalence Index worksheet:		<u> </u>
		30	=Total Cover		Total % Cover of:	Multiply by:	
50% of total cover:	15	20%	of total cover:	6	OBL species x	1 =	
apling/Shrub Stratum (Plot size: 15ft X 15ft)				FACW species x	2 =	
Platanus occidentalis	_	10	Yes	FACW	<u></u>	3 =	
Acer rubrum		5	Yes	FAC		4 =	
Ligustrum sinense		10	Yes	FACU		5 =	
_igaourann onnonoo					Column Totals: (A)		(B)
-					Prevalence Index = B/A	. =	(
					Hydrophytic Vegetation Indicat		
					1 - Rapid Test for Hydrophyti		
					X 2 - Dominance Test is >50%	c vegetation	
					3 - Prevalence Index is ≤3.0 ¹		
		05	T-1-1-0				
50% of total cover:	 13		=Total Cover of total cover:	5	4 - Morphological Adaptation data in Remarks or on a se		
erb Stratum (Plot size: 5ft X 5ft)					Problematic Hydrophytic Veg	etation ¹ (Expl	ain)
Carex sp.		10	Yes	FACW	¹ Indicators of hydric soil and wetla	and hydrology	must h
·					present, unless disturbed or prob		must b
					Definitions of Four Vegetation		
					Tree – Woody plants, excluding v		3 cm) o
					more in diameter at breast height height.		
		-			One lie of Ohmah Wanda alamba	1 15	
					Sapling/Shrub – Woody plants, than 3 in. DBH and greater than of (1 m) tall.		
). .					Herb – All herbaceous (non-wood of size, and woody plants less that		ardless
		10	=Total Cover		Woody Vine – All woody vines g	reater than 3.2	28 ft in
50% of total cover:	5	20%	of total cover:	2	height.		
oody Vine Stratum (Plot size:)						
Smilax rotundifolia		10	Yes	FAC			
-		10	=Total Cover		Hydrophytic		
	_		of total cover:	2	Vegetation Present? Yes X	No	
50% of total cover:	5	2070	oi total cover.	2	Present? Yes X	No	

SOIL Sampling Point: DP1

Profile Desc	ription: (Describe t	to the dep	th needed to docu	ment t	ne indica	tor or co	onfirm the absence o	f indicators.)
Depth	Matrix		Redox	r Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	7.5YR 4/6	80	5YR 5/8	15	С	M	Loamy/Clayey	Sandy Clay Loam
			7.5YR 5/2	5	D	M		
3-14	10YR 5/2	80	5YR 4/6	20	<u>C</u>	PL		Prominent redox concentrations
¹Type: C=Cc	oncentration, D=Depl	etion, RM	=Reduced Matrix, M			Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	•	·	·					ators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be	low Su	face (S8)	(MLRA		cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su				· · · · —	coast Prairie Redox (A16)
Black His			Loamy Muck	-				(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye					iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark				R	Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Da	k Surfa	ce (F7)			(outside MLRA 127, 147, 148)
Thick Da	rk Surface (A12)		Redox Depre	ssions	(F8)		V	ery Shallow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Iron-Mangan	ese Ma	sses (F12	2) (LRR 1	, — 0	other (Explain in Remarks)
Sandy G	leyed Matrix (S4)		MLRA 136)				
Sandy R	edox (S5)		Umbric Surfa	ce (F13) (MLRA	122, 130	3Indic	ators of hydrophytic vegetation and
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F1	9) (MLR	A 148) w	etland hydrology must be present,
Dark Sur	face (S7)		Red Parent N	/laterial	(F21) (M	LRA 127	, 147, 148) u	nless disturbed or problematic.
Restrictive L	.ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes_X_ No
Remarks: This data she Soils, Versior		astern Mou	untains and Piedmo	nt Regi	onal Supp	olement \	Version 2.0 to include	the NRCS Field Indicators of Hydric

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

A !! !!	City/County: Chatham		Sampling Date: <u>1/25/2022</u>		
Applicant/Owner: Fitch Creations, INC		State: NC	Sampling Point: DP2		
Investigator(s): S&EC- AJ Kamal + Kevin Murphrey	Section, Township, Range	Chapel Hill			
Landform (hillside, terrace, etc.): Hillsope	Local relief (concave, convex,	none): Convex	Slope (%): 2-4		
Subregion (LRR or MLRA): LRR P, MLRA 136 Lat: 35.78817		79.084980	Datum: NAD 83		
Soil Map Unit Name: GaC		NWI classification	tion: N/A		
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X		explain in Remarks.)		
Are Vegetation , Soil , or Hydrology significar		Circumstances" present?	,		
Are Vegetation, Soil, or Hydrology naturally		plain any answers in Re			
SUMMARY OF FINDINGS – Attach site map showi		-			
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area		-		
Hydric Soil Present? Yes No x		Yes	No x		
Wetland Hydrology Present? Yes No x					
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is required; check all that ap	ply)	Surface Soil Crac	ks (B6)		
Surface Water (A1) True Aquatic P		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2) Hydrogen Sulfie		Drainage Patterns			
	ospheres on Living Roots (C3)	Moss Trim Lines (
	educed Iron (C4)	Dry-Season Wate			
	eduction in Tilled Soils (C6)	Crayfish Burrows			
Drift Deposits (B3) — Thin Muck Surf Other (Explain			on Aerial Imagery (C9)		
Algal Mat or Crust (B4)Other (Explain Iron Deposits (B5)	in Remarks)	Stunted or Stress Geomorphic Posit			
iion Deposits (B3)		Shallow Aquitard			
l ——		Shallow Aquitaru	(D3)		
Inundation Visible on Aerial Imagery (B7)		Microtopographic	Relief (D4)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		Microtopographic FAC-Neutral Test			
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)		Microtopographic FAC-Neutral Test			
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations:	(inches):				
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No _X Depth	(inches):				
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth	(inches):				
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth	(inches):	FAC-Neutral Test	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe)	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe)	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Yes No X Depth Water Table Present? Yes No x Depth Saturation Present? Yes No x Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	(inches): Wetland	FAC-Neutral Test Hydrology Present?	(D5)		



Watershed Protection Department
Website: www.chathamnc.org

Date Received:	_ PL#

Riparian Buffer Review ApplicationSurface Water Identification Request

Will this project result in the review of less than or equal to 25 acres? Yes ☐ No ☑		
Will this project result in the review of greater than 25 acres? Yes ☑ No ☐		
If your project will result in a review of greater than 25 acres please contact a private consulting firm to complete the surface water determination. For stream determinations the consultant must have successfully completed the NCDWQ/NC State University Surface Waters Classification. For wetland delineations the consultant must demonstrate at least 2 years of experience delineating jurisdictional wetlands in accordance with the Eastern Mountains and Piedmont Regional Supplement to the 1987 US Corps of Engineers Wetland Delineation Manual. Please visit the Watershed Protection Department website for a list of consultants that regularly complete work within Chatham County.		
Review Type: Subdivisions (excluding Majors) Due Diligence/Voluntary/Jordan Reviews		
Application Date: 03/11/2022 Planning Application Number (Office Use Only):		
Tract Information		
Parcel #: 95264 Watershed District (and name of creek if known): Bush Creek		
Property Owner: Fitch Creations, Inc.		
Location/Physical Address of Tract: 0 Big Hole Rd, Pittsboro, NC 27312-8502		
Driving Directions from Pittsboro:		
Subdivision Name (if applicable):		
Owner's/Agent Contact Information (Agent: Consultant or individual(s) receiving lot(s))		
Name: Greg Fitch		
Contact Phone Numbers: (h)(w) 919-542-4000 (c)		
E-mail: NA		
Mailing Address: 2000 Fearrington Village Ctr. Pittsboro, NC 27312		
Do you wish to be contacted prior to Chatham County staff visiting the property? ✓ Yes □ No		
How much notice is required prior to arrival onsite? 1 week		
Trow much notice is required prior to arrival offsite:		



Watershed Protection Department Website: www.chathamnc.org

How would you like to receive the complete	review letter? (Please check one of the	following)
☐ I would like to pick up the completed Rip	arian Buffer Review at the County Office	e
☐ I would like the completed Riparian Buff	er Review mailed to me	
☑ I would like the completed Riparian Buff	er Review e-mailed to me	
Please include the following items with this	<u>equest</u>	
Copy of Original Plat, Chatham County C	IS Map, or detailed drawing indicating r	review area
☑ Signed Right to Enter Property Form		
Signed Owner's Agent Designation Form	(if applicable)	;
Fee (make checks payable to Chatham Co	unty)	
Minor Subdivisions: \$50 Adminis	tration Fee plus \$50 per lot created	
Total Lots Created:	Total Paid: \$	
Due Diligence and Voluntary Buf	fer Reviews: \$100 per feature found on	nsite
Feature is defined as any surface water to wetlands, ponds). Due Diligence and Volum prior to the report being sent to applicant.	nat is subject to Chatham County Ripar	rian Buffers (streams,
* The above fees do not apply to Jordan I streams in accordance with the 1994 Chath		
I have read and understand the regulations agree to adhere to these associated policies a		e, Section 304, and I
Owner/Agent Signature:	Date:	





CHATHAM COUNTY

AUTHORIZED AGENT FOR FORM

PROPERTY LEGAL DESCRIPTION:	
LOT NO. TRACT 'A' PARCEL ID (PIN)	95264 PARCEL SIZE 51.765
STREET ADDRESS: BIG HOLE ROAD	
Please print: Property Owner: Fitch Creat	rons, Inc.
Property Owner:	
The undersigned owner(s) of the above described	
(Contractor / Agent)	(Name of consulting firm if applicable)
Check here for all of the below options. Building Permit Zoning Compliance Permits Floodplain Determination Soil Erosion & Sedimentation Control Permits to install, repair, evaluate, or exp Evaluation/inspection/permitting of a pri	ermit pand onsite wastewater system(s)
Property Owner's Address (if different than pr	operty above):
2000 Fearington Village	CIF, MISDOO, NC C+317
Telephone: 99-542-4008	E-mail: grege teamington- Com
We hereby certify the above information submitted the wholedge. Owner Authorized Signature	Agent Authorized Signature
Date: 2(16/22	Date:



P.O. Box 548 Pittsboro, NC 27312

Website: www.chathamnc.org

Authorization to Enter Property Form

· · · · · · · · · · · · · · · · · · ·	
Date: 2 [16/22	
PARCEL No. (AKPAR) 95264	
I, (print name) Greg Fitch on behalf of Fitch Crestions, Inc.	scribed above,
or as a representative of the owner(s) do hereby convey permission to Chatham County staff to enter t	he property at
their convenience to conduct a surface water identification (SWID) necessary to determine whether or not	water features
on my property are subject to the riparian buffer regulations described in Section 304 of the Chatham Cou	nty Watershed
Protection Ordinance. The SWID will be public record and on file at the Planning and Watersh	ed Protection
Departments, and may be requested in the future for review by interested parties.	
I understand that stream delineations for the property listed above will be made by County staff only or	nce and that if
future subdivisions are proposed within this property boundary, it will require a surface water identification	on by a private
consultant at the property owner's expense.	
Greg Fitch (Print Owner's Name) Areg Fitch (Signature of Owner) (Date)	-
(Print Authorized Agent Name) (Signature of Authorized Agent) (Date)	

Representative Photos for

Fearrington Village (S&EC Project# 15120)



W1 (Feature A on SS)



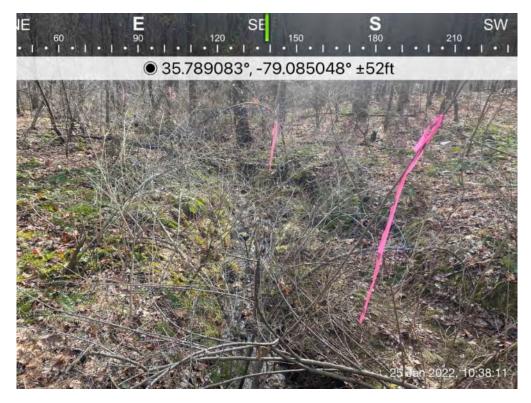
S01_Ephemeral



S02_Intermittent



S04_Ephemeral



S05_Perennial



Feature A_Perennial