CHATHAM COUNTY
NORTH CAROLINA

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

July 20, 2021

Robert Turnbull
Terracon
2401 Brentwood Road, Suite 107
Raleigh, NC 27604

Project Name:	Ridge Crest (Parcels 1798)
Chatham County Watershed Project #:	WP-21-244
Location:	Manns Chapel Road & Hamlets Chapel Road, Chatham County (Parcel# 1798)
Subject Feature(s):	Four (4) ephemeral stream segments, four (4) perennial stream segments, one (1) potential wetland, and one (1) mapped floodplain
Date of Determination:	June 23, 2021

Explanation:

The site visit was completed on June 23, 2021 by Drew Blake with the Chatham County Watershed Protection Department, and Robert Turnbull of Terracon, on a property identified as Chatham County Parcel # 1798 that is located inside of the Jordan Lake watershed. Terracon personnel completed a previous site visit which resulted in the identification of four (4) ephemeral stream segments, four (4) perennial stream segments, and one (1) potential wetland on the property. Terracon 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 in the field. The wetland boundaries flagged in the field by Terracon have been reviewed and confirmed by the US Army Corps of Engineers (USACE).

Required Riparian Buffers:

The required riparian buffers described below are based on the surface water features identified on Exhibit 3: Potential Wetlands and Waters, completed by Terracon. Streams S2, S3, S5, and S6 were identified as ephemeral streams and will therefore require a 30-ft buffer from the top of bank landward on both sides of the features. Streams S1, S4, S7 (Wilkinson Creek) and S7a were identified as perennial streams and will therefore require a 100-ft buffer from the top of bank landward on both sides. The start point for Stream S4 was relocated to the nearest property line to the north. A FEMA mapped floodplain is located along Wilkinson Creek and stream S6. The

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riparian buffers in this portion of the streams S6, S7 and S7a will extend to the 100-ft from the top of bank or to the mapped floodplain limits, whichever is more restrictive.

A 50-ft buffer will be required beginning at the flagged boundary and proceeding landward of any flagged wetlands determined jurisdictional by the USACE. Any wetlands determined to be non-jurisdictional by the USACE will receive a 50-ft buffer from the flagged boundary as observed during the site visit. Please provide a copy of the USACE determination once completed.

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 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: Wetland Sketch Map – completed by Terracon
Figure 2: USGS Topographic Map – Completed by Terracon
Figure 3: NRCS Soil Survey – Completed by Terracon
Terracon Stream ID Forms
Terracon Wetland Determination Forms

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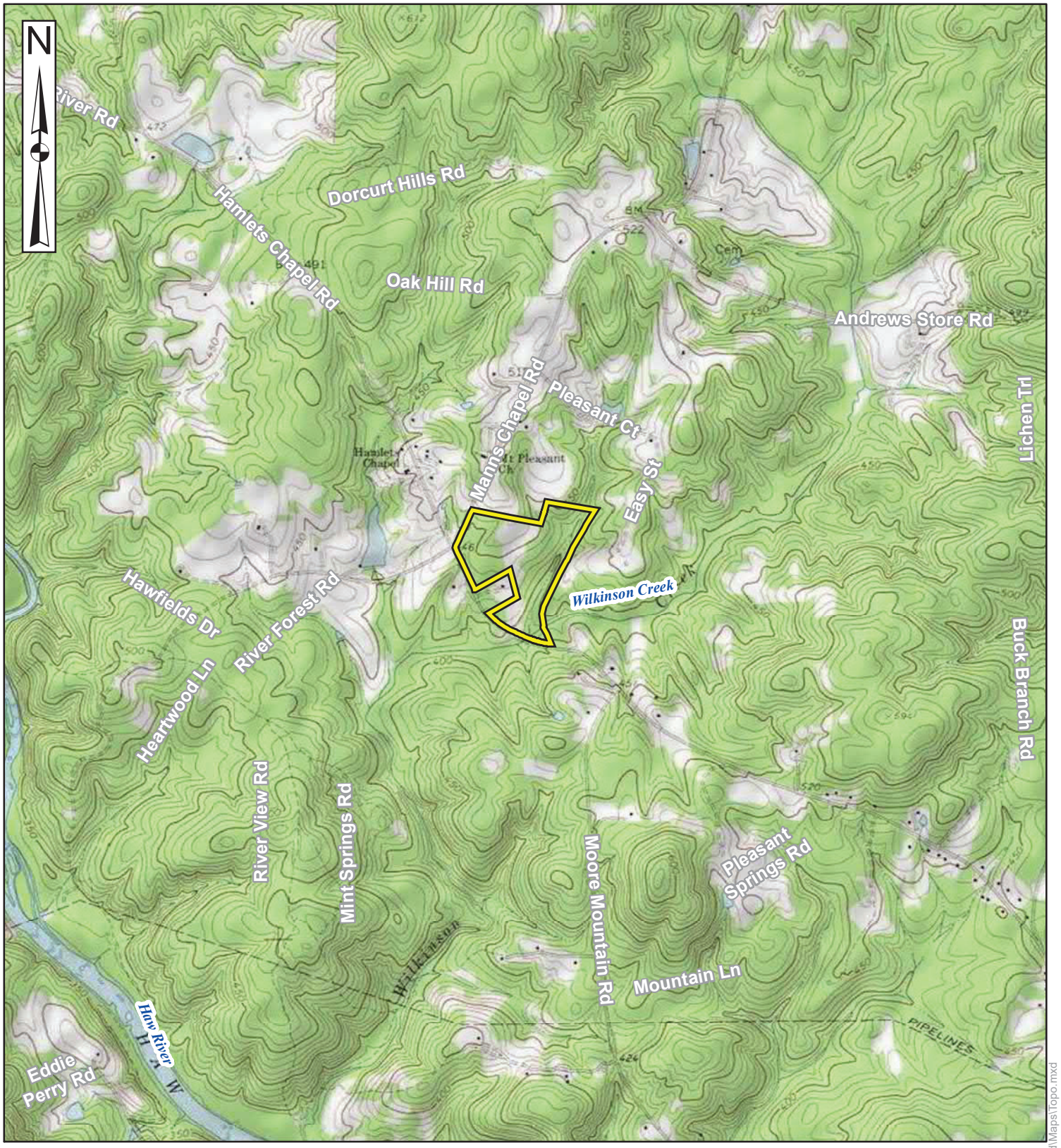
Major Subdivision Riparian Buffer Application
Authorized Agent Form
Authorization to Enter Property Form

cc: Chad Abbott, Principal Engineer, C3 Design
Ricky Spoon, Lovin' Spoonful, LLC
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



Site Boundary

0 1,000 2,000 4,000 Feet

DATA SOURCES:
2013 National Geographic Society/ESRI, i-cubed seamless USGS quadrangles (Bynum, NC); Site Boundary based on Chatham County Parcel Data.

PM: RT	Project No. 702107006	Terracon	Project Location	EXHIBIT NO.
Drawn By: CW	Scale: 1 in = 2,000 ft		130 Manns Chapel Road Pittsboro, Chatham County, North Carolina	1
Checked By: RT	Filename: Topo.mxd			
Approved By: RT	Date: January 2021			

2401 Brentwood Road, Suite 107 Raleigh, NC 27604
Phone: (919) 873-2211 Fax: (919) 873-9555

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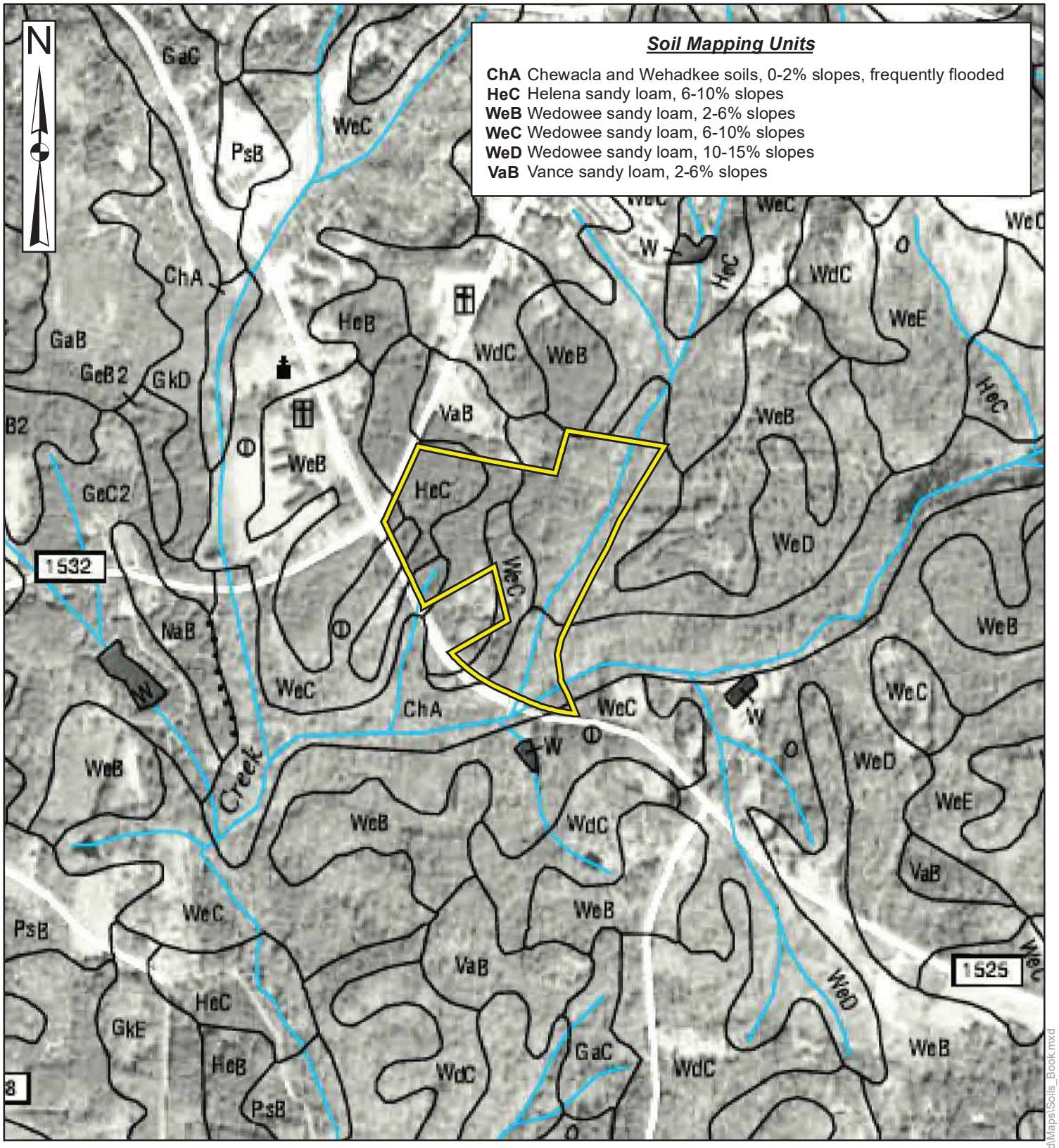

DATA SOURCES:
NRCS Soil Survey of Chatham County, 2006.Site Boundary based on Chatham County Parcel Data.

PM: RT	Project No. 702107006	Terracon	NRCS Soils	EXHIBIT NO.
Drawn By: CW	Scale: 1 in = 1,000 ft			
Checked By: RT	Filename: Soils_Book.mxd		130 Manns Chapel Road Pittsboro, Chatham County, North Carolina	2
Approved By: RT	Date: January 2021	2401 Brentwood Road, Suite 107 Raleigh, NC 27604 Phone: (919) 873-2211 Fax: (919) 873-9555		

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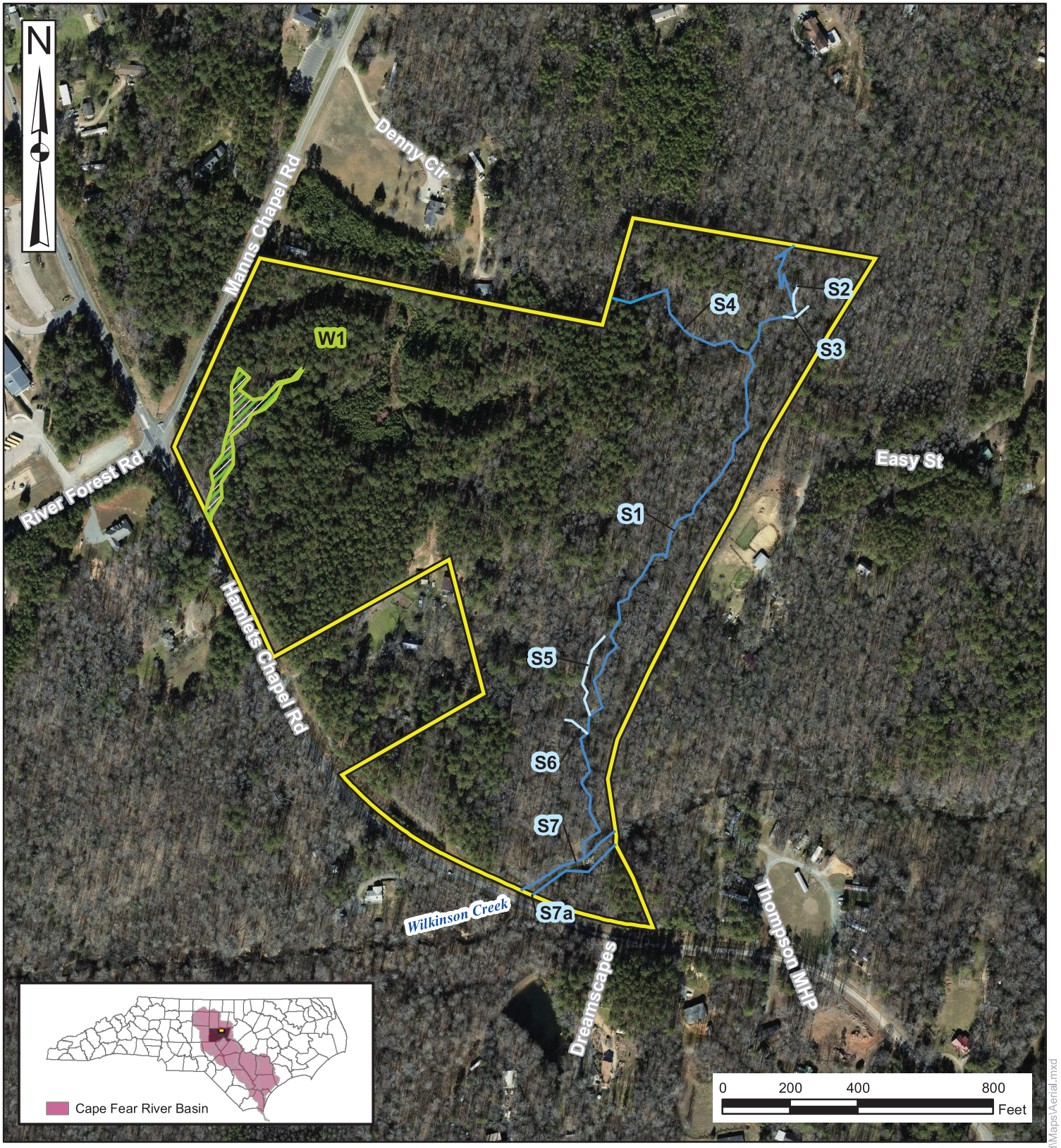

Site Boundary
Potential Wetland
Potential Tributary (Perennial)
Potential Tributary (Ephemeral)

DATA SOURCES:
Latest High-Resolution NC Statewide Orthoimagery, NC OneMap Server; 2017; Site Boundary based on Chatham County Parcel Data.

Note: Vegetation removal or alteration of soils or hydrology after initial site evaluation can affect jurisdictional status and may require re-evaluation of wetland boundaries.

PM: RT	Project No. 70217006	Terracon	Potential Wetlands and Waters	EXHIBIT NO.
Drawn By: CW	Scale: 1 in = 400 ft		130 Manns Chapel Road Pittsboro, Chatham County, North Carolina	3
Checked By: RT	Filename: Aerial.mxd			
Approved By: RT	Date: June 2021	2401 Brentwood Road, Suite 107 Raleigh, NC 27604 Phone: (919) 873-2211 Fax: (919) 873-9555		

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NC DWQ Stream Identification Form Version 4.11

Date: 01/18/21	**Project/Site:** 70217006	**Latitude:** 35.8089
Evaluator: EC	**County:** Chatham County, NC	**Longitude:** -79.1512
Total Points: 41.5 *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30**	**Stream Determination (circle one)** Ephemeral Intermittent **Perennial**	**Other** SEB *e.g. Quad Name*:

A. Geomorphology (Subtotal = 23.5)	Absent	Weak	Moderate	Strong
1[a]. Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
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	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	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 11)				
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		Yes = 3	

C. Biology (Subtotal = 7)				
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	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	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	FACW = 0.75; OBL = 1.5 Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

NC DWQ Stream Identification Form Version 4.11

Date: 01/22/21	**Project/Site:** 70217006	**Latitude:** 35.8086
Evaluator: EC	**County:** Chatham County, NC	**Longitude:** -79.1511
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 15	**Stream Determination (circle one)** **Ephemeral** **Intermittent** **Perennial**	**Other** SEG *e.g. Quad Name*:

A. Geomorphology (Subtotal = 6.5)	Absent	Weak	Moderate	Strong
1[a]. Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
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	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	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 5.5)				
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		Yes = 3	

C. Biology (Subtotal = 3)				
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	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	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	FACW = 0.75; OBL = 1.5 Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

NC DWQ Stream Identification Form Version 4.11

Date: 01/22/21	**Project/Site:** 70217006	**Latitude:** 35.8086
Evaluator: EC	**County:** Chatham County, NC	**Longitude:** -79.1514
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 17.5	**Stream Determination (circle one)** **Ephemeral** **Intermittent** **Perennial**	**Other** SEF *e.g. Quad Name:*

A. Geomorphology (Subtotal = 7.5)	Absent	Weak	Moderate	Strong
1[a]. Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
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	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	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 6)				
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		Yes = 3	

C. Biology (Subtotal = 4)				
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	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	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	FACW = 0.75; OBL = 1.5 Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

NC DWQ Stream Identification Form Version 4.11

Date: 01/18/21	**Project/Site:** 70217006	**Latitude:** 35.8083
Evaluator: EC	**County:** Chatham County, NC	**Longitude:** -79.1519
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 32.5	**Stream Determination (circle one)** Ephemeral Intermittent **Perennial**	**Other** SEE *e.g. Quad Name*:

A. Geomorphology (Subtotal = 15.5)	Absent	Weak	Moderate	Strong
1[a]. Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
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	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	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 11)				
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		Yes = 3	

C. Biology (Subtotal = 6)				
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	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	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	FACW = 0.75; OBL = 1.5 Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

NC DWQ Stream Identification Form Version 4.11

Date: 01/18/21	**Project/Site:** 70217006	**Latitude:** 35.8052
Evaluator: EC	**County:** Chatham County, NC	**Longitude:** -79.1534
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 16	**Stream Determination (circle one)** **Ephemeral** **Intermittent** **Perennial**	**Other** SED *e.g. Quad Name:*

A. Geomorphology (Subtotal = 6.5)	Absent	Weak	Moderate	Strong
1[a]. Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
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	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	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 5.5)				
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		Yes = 3	

C. Biology (Subtotal = 4)				
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	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	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	FACW = 0.75; OBL = 1.5 Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

NC DWQ Stream Identification Form Version 4.11

Date: 01/18/21	**Project/Site:** 70217006	**Latitude:** 35.8053
Evaluator: EC	**County:** Chatham County, NC	**Longitude:** -79.1533
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 16.5	**Stream Determination (circle one)** Ephemeral Intermittent Perennial	**Other** SEC *e.g. Quad Name:*

A. Geomorphology (Subtotal = 6.5)	Absent	Weak	Moderate	Strong
1[a]. Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
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	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	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 6.5)				
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		Yes = 3	

C. Biology (Subtotal = 3.5)				
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	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	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	FACW = 0.75; OBL = 1.5 Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

NC DWQ Stream Identification Form Version 4.11

Date: 01/18/21	**Project/Site:** 70217006	**Latitude:** 35.8046
Evaluator: EC	**County:** Chatham County, NC	**Longitude:** -79.1530
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 43	**Stream Determination (circle one)** Ephemeral Intermittent **Perennial**	**Other** SEA *e.g. Quad Name*:

A. Geomorphology (Subtotal = 24.5)	Absent	Weak	Moderate	Strong
1[a]. Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
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	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	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 12)				
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		Yes = 3	

C. Biology (Subtotal = 6.5)				
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	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	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	FACW = 0.75; OBL = 1.5 Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Ridge Crest Property City/County: Chatham Sampling Date: 1/11/2021

Applicant/Owner: Ricky Spoon Builders, Inc. State: NC Sampling Point: W1 wet

Investigator(s): Terracon- Robert Turnbull Section, Township, Range: NA

Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): Concave Slope (%): 4-10

Subregion (LRR or MLRA): LRR P Lat: 35.80765 Long: -79.15719 Datum: WGS 84

Soil Map Unit Name: Wedowee sandy loam, 6-10% slopes NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" 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, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No** _____
Hydric Soil Present?	Yes ✔	No _____	
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ✔ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ✔ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): NA
Water Table Present?	Yes ✔	No _____	Depth (inches): 6
Saturation Present? (includes capillary fringe)	Yes ✔	No _____	Depth (inches): surface

Wetland Hydrology Present? **Yes** ✔ **No** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: **W1 wet**

Tree Stratum (Plot size: 30ft. radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus taeda	50	Yes	FAC
2. Acer rubrum	30	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	80 = Total Cover		
50% of total cover: 40	20% of total cover: 16		
Sapling/Shrub Stratum (Plot size: 30ft. radius)			
1. Ilex opaca	10	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
	10 = Total Cover		
50% of total cover: 5	20% of total cover: 2		
Herb Stratum (Plot size: 30ft. radius)			
1. none present			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	= Total Cover		
50% of total cover: 0	20% of total cover: 0		
Woody Vine Stratum (Plot size: 30ft. radius)			
1. Gelsemium sempervirens	20	Yes	FAC
2.			
3.			
4.			
5.			
	20 = Total Cover		
50% of total cover: 10	20% of total cover: 4		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0 (A)		0 (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ✔ **No** _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: **W1 wet**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 5/3	100					S	
4-10	10YR 5/2	90	10YR 4/6	10	C	M	S	
10-20	10YR 6/2	100					S	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) **(LRR N)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ✔ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ✔ **No** ___

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Ridge Crest Property City/County: Chatham Sampling Date: 1/11/2021

Applicant/Owner: Ricky Spoon Builders, Inc. State: NC Sampling Point: W1 up

Investigator(s): Terracon- Robert Turnbull Section, Township, Range: NA

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 6-10

Subregion (LRR or MLRA): LRR P Lat: 35.80765 Long: -79.15719 Datum: WGS 84

Soil Map Unit Name: Wedowee sandy loam, 6-10% slopes NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" 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, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): NA
Water Table Present?	Yes _____	No ✔	Depth (inches): >20
Saturation Present? (includes capillary fringe)	Yes _____	No ✔	Depth (inches): >20

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W1 up

Tree Stratum (Plot size: 30ft. radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus taeda	40	Yes	FAC
2. Fagus grandifolia	30	Yes	FACU
3. Quercus rubra	20	Yes	FACU
4.			
5.			
6.			
7.			
	90 = Total Cover		
50% of total cover: 45	20% of total cover: 18		

Sapling/Shrub Stratum (Plot size: 30ft. radius)			
1. Ilex opaca	10	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
	10 = Total Cover		
50% of total cover: 5	20% of total cover: 2		

Herb Stratum (Plot size: 30ft. radius)			
1. none present			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	= Total Cover		
50% of total cover: 0	20% of total cover: 0		

Woody Vine Stratum (Plot size: 30ft. radius)			
1. Gelsemium sempervirens	10	Yes	FAC
2. Lonicera japonica	5	Yes	FACU
3. Vitis rotundifolia	5	Yes	FAC
4.			
5.			
	20 = Total Cover		
50% of total cover: 10	20% of total cover: 4		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 42.86% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	55	x 3 =	165
FACU species	65	x 4 =	260
UPL species	0	x 5 =	0
Column Totals:	120 (A)		425 (B)

Prevalence Index = B/A = 3.5

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

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Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ___ No ✔

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: **W1 up**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 4/3	100					SL	
4-20	10YR 5/4	100					SL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) **(LRR N)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ **No** ✔

Remarks:

County of Chatham, NC

07/08/2021

WP-21-244

Riparian Buffer Review

Status: Active

Date Created: Jun 25, 2021

Applicant

Robert Turnbull
robert.turnbull@terracon.com
2401 Brentwood Road, Suite 107
Raleigh, NC 27604
9196179153

Location

0 VACANT
North Carolina 00000

Owner:

Estate of Albert A. Bechtoldt, Jr.
3761 Highway 357 Inman, SC 29349

Project Information

Review Type
Major Subdivision

Number of Features Found
8

Date Field Work Was Completed
01/11/2021

Has USACE on-site review been scheduled or completed
Completed

Date USACE was completed
06/03/2021

Brief Summary of USACE Findings
Applicant/Agent notified of USACE intent to do a desktop review on 6/3/2021. Update to stream S4 discovered during 6/23 field review with Chatham County has been sent to USACE.

Parcel Information

Parcel Number (s)
1798

Watershed District
WS-IV PA

Is the property within the Jordan Lake Watershed
Yes

Property Owner Name
Peter Griffin

Location of Tract (address if applicable)
Manns Chapel Road

Driving Directions from Pittsboro
Take US 15-501 north, turn left on Moore Mountain Road, turn left on Hamlets Chapel Road, property is in southeast quadrant of the intersection of Hamlets Chapel Road and Manns Chapel Road.

Subdivision Name (if applicable)
Ridge Crest

Please describe access issues (provide gate codes, or information for scheduling site visit)
Parking easiest on Manns Chapel Road

Applicants Information

Are you the Landowner or an Agent
Agent

Full Name
Robert Turnbull

Primary Phone Number
(919)617-9153

Primary Email
robert.turnbull@terracon.com

Mailing Address
2401 Brentwood Road, Suite 107

City/State
Raleigh, NC

Zip Code
27604

How would you like to receive the completed review letter?

I would like to pick up the completed Riparian Buffer Review at the County Office
☐

I would like the completed Riparian Buffer Review mailed to me
☑

I would like the completed Riparian Buffer Review e-mailed to me.
☑

Statement of Understanding

Name
Robert Turnbull

New Field
06/25/2021

Attachments

pdf AuthtoEnter_RidgeCrest.pdf
Uploaded by Robert Turnbull on Jun 25, 2021 at 3:32 pm

pdf AgentAuth_RidgeCrest.pdf
Uploaded by Robert Turnbull on Jun 25, 2021 at 3:32 pm

pdf 130 Manns Chapel Road_Chatham County.pdf
Uploaded by Robert Turnbull on Jun 25, 2021 at 3:36 pm

pdf 130 Manns Chapel Road Wetlands_June2021.pdf
Uploaded by Robert Turnbull on Jun 25, 2021 at 3:33 pm

pdf 130 Manns Chapel Road_Chatham County.pdf
Uploaded by Robert Turnbull on Jun 3, 2021 at 8:45 am

pdf soils.pdf
Uploaded by Robert Turnbull on Jun 3, 2021 at 8:42 am

pdf topo.pdf
Uploaded by Robert Turnbull on Jun 3, 2021 at 8:43 am

History

Date	Activity
May 4, 2021 at 1:10 pm	Robert Turnbull started a draft of Record WP-21-244
Jun 25, 2021 at 3:23 pm	Robert Turnbull altered Record WP-21-244, changed ownerCity from "Old Greenwich" to "Inman"
Jun 25, 2021 at 3:23 pm	Robert Turnbull altered Record WP-21-244, changed ownerName from "Peter Griffin" to "Estate of Albert A. Bechtoldt, Jr."
Jun 25, 2021 at 3:23 pm	Robert Turnbull altered Record WP-21-244, changed ownerPhoneNo from "646-236-8055" to "864-237-8800"
Jun 25, 2021 at 3:23 pm	Robert Turnbull altered Record WP-21-244, changed ownerPostalCode from "06870" to "29349"
Jun 25, 2021 at 3:23 pm	Robert Turnbull altered Record WP-21-244, changed ownerState from "CT" to "SC"
Jun 25, 2021 at 3:23 pm	Robert Turnbull altered Record WP-21-244, changed ownerStreetName from "2 Tomac Ct." to "3761 Highway 357"
Jun 25, 2021 at 3:36 pm	Robert Turnbull submitted Record WP-21-244
Jun 25, 2021 at 3:36 pm	approval step Intake Approval was assigned to Drew Blake on Record WP-21-244
Jul 6, 2021 at 8:54 am	Drew Blake approved approval step Intake Approval on Record WP-21-244
Jul 6, 2021 at 5:04 pm	completed payment step Major Subdivision Riparian Buffer Review Fee on Record WP-21-244
Jul 6, 2021 at 5:04 pm	changed the deadline to Jul 20, 2021 on approval step Field Review on Record WP-21-244
Jul 6, 2021 at 5:04 pm	approval step Field Review was assigned to Janie Phelps on Record WP-21-244

Date	Activity
Jul 6, 2021 at 5:04 pm	changed the deadline to Jul 20, 2021 on approval step Field Review on Record WP-21-244

Timeline

Label		Status	Activated	Completed	Assignee	Due Date
✓	Intake Approval	Complete	Jun 25, 2021 at 3:36 pm	Jul 6, 2021 at 8:54 am	Drew Blake	-
$	Major Subdivision Riparian Buffer Review Fee	Paid	Jul 6, 2021 at 8:54 am	Jul 6, 2021 at 5:04 pm	-	-
✓	Field Review	Active	Jul 6, 2021 at 5:04 pm	-	Janie Phelps	07/19/2021
📄	Major Subdivision Riparian Buffer Confirmation Report	Pending	-	-	-	-

CHATHAM COUNTY

AUTHORIZED AGENT FOR FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PARCEL ID (PIN) 1798 PARCEL SIZE 49.41 acres

STREET ADDRESS: 130 Manns Chapel Road

Please print:
Property Owner: Estate of Albert A. Bechtoldt, Jr.

Property Owner: _____

The undersigned owner(s) of the above described property, do hereby authorize

_____, of _____
(Contractor / Agent) (Name of consulting firm if applicable)

to act on my/our behalf and take all actions, I/we could have taken if present, necessary for the processing, issuance and acceptance of reviews, inspections, or permits and any and all standard and special conditions attached to these approvals. The activities authorized include the following **(Check all that apply)**:

☐ **Check here for all of the below options.**

☐ Building Permit
☐ Zoning Compliance Permits
☐ Floodplain Determination
☐ Soil Erosion & Sedimentation Control Permit
☐ Permits to install, repair, evaluate, or expand onsite wastewater system(s)
☐ Evaluation/inspection/permitting of a private drinking water well(s).
☑ Riparian Buffer Review pursuant to §304 of the Chatham Co. Watershed Protection Ordinance.
☐ Other: _____

Property Owner's Address (if different than property above):
3761 Highway 357, Inman, SC 29349

Telephone: 864-237-8800 E-mail: _____

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

DocuSigned by:
James W. Michael, III
9ADFD83E47B6462...
(Property Owner Signature)
Date: 6/10/2021

Turnbull, Robert T Digitally signed by Turnbull, Robert T DN: cn=Turnbull, Robert T, ou=General Users, email=Robert.Turnbull@terracon.com Date: 2021.06.03 09:20:17 -04'00'
Agent Authorized Signature
Date: 6/2/2021

CHATHAM COUNTY
NORTH CAROLINA

Watershed Protection Department

P.O. Box 548
Pittsboro, NC 27312

Website: www.chathamnc.org

Authorization to Enter Property Form

Date: 6/3/2021

PARCEL No. (AKPAR) 1798

I, (print name) _____, as owner of the property described above, or as a representative of the owner(s) do hereby convey permission to Chatham County staff to enter the 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 County Watershed Protection Ordinance. The SWID will be public record and on file at the Planning and Watershed 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 once and that if future subdivisions are proposed within this property boundary, it will require a surface water identification by a private consultant at the property owner's expense.

Estate of Hilbert H. Bechtoldt Jr.
(Print Owner's Name)

DocuSigned by:
James W. Michael, III
9ADFD83E47B6462...
(Signature of Property Owner)
6/10/2021
(Date)

Robert Turnbull
(Print Authorized Agent Name)

Turnbull, Robert T
Digitally signed by Turnbull, Robert T
DN: cn=Turnbull, Robert T, ou=General Users, email=Robert.Turnbull@terracon.com
Date: 2021.06.03 09:12:57 -04'00'
(Signature of Authorized Agent)
(Date)