From:	Jeanette Coffin
Sent:	Thursday, October 08, 2020 9:59 AM
То:	CHALT
Cc:	Judy Johnson; Allen Buansi; Amy Ryan; Hongbin Gu; Jeanne Brown; Jess Anderson; Karen Stegman; Michael Parker; Pam Hemminger; Shakera Vaughan; Tai Huynh; Amy Harvey; Ann Anderson; Carolyn Worsley; Flo Miller; Laura Selmer; Mary Jane Nirdlinger; Maurice Jones; Rae Buckley; Ran Northam; Ross Tompkins; Sabrina Oliver
Subject:	RE: Comment on Concept Plan for Admin Services Building

Thank you for your correspondence with the Town of Chapel Hill. The Mayor and Town Council are interested in what you have to say. By way of this email, I am forwarding your message to the Mayor and each of the Council Members, as well as to the appropriate staff person who may be able to assist in providing additional information or otherwise addressing your concerns.

If your email is related to a development application or a particular issue being addressed by the Council, your comments will be made part of the record. If applicable, we encourage you to attend any public meetings related to the items addressed in your email.

Again, thank you for your message.

Sincerely,

Jeanette Coffin



Jeanette Coffin Office Assistant <u>Town of Chapel Hill Manager's Office</u> <u>405 Martin Luther King Jr. Blvd.</u> <u>Chapel Hill, NC 27514</u> (o) 919-968-2743 | (f) 919-969-2063

From: CHALT [mailto:info@chalt.org]
Sent: Wednesday, October 7, 2020 4:44 PM
To: Town Council <mayorandcouncil@townofchapelhill.org>
Cc: Amy Harvey <aharvey@townofchapelhill.org>
Subject: Comment on Concept Plan for Admin Services Building

External email: Don't click links or attachments from unknown senders. To check or report forward to reportspam@townofchapelhill.org

October 6, 2020 Mayor Hemminger and Chapel Hill Council Members: We, the undersigned, call on the Mayor and the Town Council to heed the concerns of your constituents and reject the proposal to locate a new Municipal Services Administration Building at the northern edge of town near I-40. We ask you to reject this proposal because:

- The 2-acre buildable portion of this site is not large enough to accommodate what the Town needs to build, especially given its close proximity to established neighborhoods and perrenial streams.
- The small buildable area will make it difficult, if not impossible, to provide adequate buffers for adjacent neighborhoods or to adequately mitigate the impacts of flooding from stormwater, noise and traffic;
- A government administration building should be centrally located; and
- This site is better suited to other uses, such as affordable townhomes.

We are aware of the Town's need for a new police station and upgraded offices for the Parks and Recreation Department. However, we do not believe this need justifies singling out one neighborhood to bear the brunt of the impacts of this project, especially if other, more suitable sites can be found.

We therefore urge the Manager and staff to redouble their efforts to identify and procure a workable site for the municipal services building. Specifically, we suggest that you:

- Investigate costs of removing the present police department structure from its MLK site, capping the buried coal ash and building new offices under the Brownfields program. (The Town's application for this program has been accepted.)
- Continue negotiations with RAM to secure land for a Municipal Services Center at University Place.

#### Thank you!

Signed, Julie McClintock, David Adams, Anne and Bill Brashear, Linda Brown, Silvia Clements, Deborah and Arthur Finn, Lindsay Garrison, Joan Guilkey, Cheri Hardman, Tom Henkel, Bruce Henschel, Charles Humble, David Kiel, Fred Lampe, Jun Lian, Rita M May, Molly McConnell, Amey Miller, John N. Morris, Michael Murphy, Alan Snavely, David Schwartz, Renuka Soll, Dan Sissors, Del Snow, Terry Vance, Diane Willis and Neva Whybark

From:	Jeanette Coffin
Sent:	Monday, October 05, 2020 11:36 AM
То:	Claudia Sheppard
Cc:	Judy Johnson; Allen Buansi; Amy Ryan; Hongbin Gu; Jeanne Brown; Jess Anderson; Karen Stegman; Michael Parker; Pam Hemminger; Shakera Vaughan; Tai Huynh; Amy Harvey; Ann Anderson; Carolyn Worsley; Flo Miller; Laura Selmer; Mary Jane Nirdlinger; Maurice Jones; Rae Buckley; Ran Northam; Ross Tompkins; Sabrina Oliver
Subject:	RE: Municipal Services Center

Thank you for your correspondence with the Town of Chapel Hill. The Mayor and Town Council are interested in what you have to say. By way of this email, I am forwarding your message to the Mayor and each of the Council Members, as well as to the appropriate staff person who may be able to assist in providing additional information or otherwise addressing your concerns.

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Again, thank you for your message.

Sincerely,

Jeanette Coffin



Jeanette Coffin Office Assistant <u>Town of Chapel Hill Manager's Office</u> <u>405 Martin Luther King Jr. Blvd.</u> <u>Chapel Hill, NC 27514</u> (o) 919-968-2743 | (f) 919-969-2063

From: Claudia Sheppard [mailto:claudiasheppard@gmail.com]
Sent: Friday, October 2, 2020 7:12 PM
To: Town Council <mayorandcouncil@townofchapelhill.org>
Subject: Municipal Services Center

External email: Don't click links or attachments from unknown senders. To check or report forward to reportspam@townofchapelhill.org

Dear Mayor and Town Council,

This letter concerns the plans for the proposed Municipal Services Building on MLK/Weaver Dairy Road extension. I am a neighbor of the current fire station. Even though there are occasional drills and sirens, overall the presence of the fire station has been unobtrusive.

I do not oppose the redevelopment of the property to a Municipal Service Center, however I do oppose the inclusion of the town's police station in that plan.

I am concerned about locating the police station in that location for the health of the town. The intersection of MLK/Weaver Dairy Road Extension is already a very busy one and has a high number of accidents, and I fear that adding the police station with associated traffic will worsen the functionality of the intersection. I am also concerned that a decentralized location will increase response times to the rest of the town. This location is about as far away from the center of town as one can get. Citizens of Chapel Hill don't appear to know that the police station may be moved to the edge of town.

Furthermore, I am concerned about locating the police station in that location for the health of the surrounding neighbors. I feel that noise and light pollution from police vehicles will affect the quality of life of the neighbors, and I fear that light pollution from the building itself (4 stories!) will negatively affect those in close proximity.

I would like to petition the town to look for a better suited property to relocate the police station to. There are many empty commercial spaces around town that would likely be more suitable.

Sincerely,

Claudia Sheppard 101 Autumn Lane Chapel Hill, NC 27516

nan; Michael Parker;
olyn Worsley; Flo
ham; Ross
С

Thank you for your correspondence with the Town of Chapel Hill. The Mayor and Town Council are interested in what you have to say. By way of this email, I am forwarding your message to the Mayor and each of the Council Members, as well as to the appropriate staff person who may be able to assist in providing additional information or otherwise addressing your concerns.

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Again, thank you for your message.

Sincerely,

Jeanette Coffin



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From: jguilkey@nc.rr.com [mailto:jguilkey@nc.rr.com]
Sent: Tuesday, October 6, 2020 6:12 PM
To: Town Council <mayorandcouncil@townofchapelhill.org>
Cc: Maurice Jones <mjones@townofchapelhill.org>
Subject: Capital Projects Here, There and Everywhere

External email: Don't click links or attachments from unknown senders. To check or report forward to reportspam@townofchapelhill.org

#### Dear Leaders:

It seems that every time we have a Council meeting it is to approve or at least think about a capital project or two. A few examples: coal ash dump, bus rapid transit, Rosemary St. parking deck and lab/offices, Elliott Rd. Extension, affordable housing renovations, etc. In

recent months you have moved ahead on the parking deck(s) and the Elliott Rd. Extension, when clearly we are not prepared to handle the results. This Wednesday night you appear to be trying to do the same on the municipal services center. As most of you are aware, we have not completed our evaluation of the Grubb projects and we are just beginning to understand what the Municipal Center may entail. I understand that some of you are frustrated by the public questions and by having to work by ZOOM. Believe me, it is not fun for any of us. But frustration is not a valid reason to discard information or proceed without it. Transparency has become even more important in the time of COVID. The public needs to be able to trust you.

By your approval vote on the parking deck/lab office project, without a thorough and complete public review, you have put us taxpayers in a bad position. That vote last week only added to the risks and debt citizens will have to cover should things go south (and there are many ways that can happen). We now can only hope for the best. Before we make the same sort of hasty move with the municipal center, I strongly recommend you slow down and take several deep breaths. Just because staff or a few others may be tired of working on this is not a justifiable reason to approve the concept plan and move on. As my dad used to say, stop biting off more than you and the public can chew.

I doubt anyone is opposed to a new center for our police, fire, and parks and rec. staff. Now is the time to really work hard to make it the best we can afford. The current design, proposed location, and scope of the project is inadequate and does not meet the climate change guidelines we must insist upon. There is plenty of time to see that this project is done well. Leaders were short-sighted back when they built the police station on a dump and were enthralled with the modern, but not so usable architecture being proposed. Now we have a chance to take a wise and deliberate approach to Town services.

Some of you have worked incredibly hard on COVID-19 relief and have a right to be exhausted. So instead of speeding up all the established processes to satisfy a desire for progress, let the public help you do this better. We all will be happier in the end.

Thank you! Joan Guilkey

From:	Jeanette Coffin
Sent:	Wednesday, October 07, 2020 10:48 AM
То:	djdsnow@msn.com
Cc:	Allen Buansi; Amy Ryan; Hongbin Gu; Jeanne Brown; Jess Anderson; Karen Stegman; Michael Parker; Pam Hemminger; Shakera Vaughan; Tai Huynh; Amy Harvey; Ann Anderson; Carolyn Worsley; Flo Miller; Laura Selmer; Mary Jane Nirdlinger; Maurice Jones; Rae Buckley; Ran Northam; Ross Tompkins; Sabrina Oliver
Subject:	FW: Municipal Services Center
Attachments:	muni svcs bldg.docx; 9880-25-0693, 9880-15-7586 stream determ 9-22-2020.pdf
Categories:	Agenda Packet Process

Thank you for your correspondence with the Town of Chapel Hill. The Mayor and Town Council are interested in what you have to say. By way of this email, I am forwarding your message to the Mayor and each of the Council Members, as well as to the appropriate staff person who may be able to assist in providing additional information or otherwise addressing your concerns.

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Again, thank you for your message.

Sincerely,

Jeanette Coffin



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From: Del Snow [mailto:djdsnow@msn.com]
Sent: Wednesday, October 7, 2020 10:39 AM
To: Town Council <mayorandcouncil@townofchapelhill.org>
Subject: Municipal Services Center

External email: Don't click links or attachments from unknown senders. To check or report forward to reportspam@townofchapelhill.org

Please distribute to Mayor and Council.

Thanks, Del Snow Dear Mayor and Council,

The residents of Northwest Chapel Hill are as valuable and worthy as those in other parts of Town. Lately we don't feel like it.

We have heard that the Town has "looked at every possible piece of land" for a Municipal Services Building. While we empathize with the Town's difficulty in finding a site, placing the Municipal Services Building at the intersection of Weaver Dairy Extension and Martin Luther King Road undermines the integrity of the relationship between the Town and neighborhoods by violating the 2020 Comprehensive Plan section on neighborhoods. The Comprehensive Plan is supposed to convey a level of predictability for residents of Chapel Hill and in this case it fails. Northwest Chapel Hill has more than contributed to the public good of the Town with the addition of Carraway Village, Charterwood - Evolve, Weaver Crossing, Bridgepoint, SECU, The Courtyard, Vilcom, and the Orange County Human Services building. As you know, the area 4 trailer parks are probable areas of even more redevelopment.

#### The 2020 Comprehensive Plan section on Neighborhoods states,

• The character and quality of life offered by these neighborhoods could be impacted by nearby changes that increase noise, light pollution, and traffic congestion. Sustaining the character and lifestyle that these areas provide, yet allowing them to be flexible to accommodate change (note: NW CH has changed) will serve to assure their viability and will demonstrate that the residents' concerns are an important consideration when planning for future changes.

All neighborhoods should be bicycle and pedestrian friendly

 Have protection from the loss of privacy and "shadow effects that may come with adjacent vertical growth

 Protection of town's natural resources including stream corridors, steep slopes, tree canopies, habitat areas and air and water quality.

Similarly, the FLUM states:

Protect neighborhoods from potential adverse impacts associated with adjacent nonresidential uses by proper mitigation measures that address scale, massing, traffic, noise, appearance, lighting, drainage, and stormwater.

In this letter, we would like to specify how the Town's development fails to ascribe to both the 2020 Comprehensive Plan section on Neighborhoods and FLUM guidelines.. More specifically, this development harms the environment (including forests and waterways), contributes to pre-existing noise pollution, will inevitably add to light pollution, and threatens the health and safety of people living in nearby neighborhoods.

#### Harms to the Environment

1. The first Estes Drive site for a municipal services building stipulated that all development be situated away from Elkin Hills neighborhood and would provide a 100 ft forested buffer. At this location, any buffer could not be sufficient because of the small size and location of nearby residences. A small challenging site like WDR Ext one cannot offer the same opportunity for mitigation that **any** larger site would offer

2. The headwaters of Booker Creek are located on this property. Water will flow off the parking table into the creek leading to more sudden and greater volumes of storm water causing downstream flooding.

3. A number of the surrounding residential property owners have lost many trees due to the altered drainage causing tree roots to drown in standing water.

### Light and Noise Pollution

1. With houses from the residential neighborhood as close as 140 feet next to and 50 feet below the proposed municipal building, light pollution will be constant.

2. Town planners may not be aware that the 154 units at the Evolve apartment complex approved by the Council right next to our Northwoods neighborhood has extremely loud dumpster pickups at multiple locations starting at 5:30 a.m. every morning. We have documented noise levels reaching 110 decibels at people's houses in our neighborhood. To put this noise level into perspective, less than 60 decibels is judged to be safe for human hearing. The new municipal building will also have dumpster pickup, and - because of the way the land slopes - this noise will be amplified throughout the neighborhood as well.

3. We also expect that noise will increase with police, fire truck, and EMS sirens given that this proposal also includes parking for 250 vehicles.

4. Geographically, the corner of Weave Dairy Road and MLK is the second highest point in Chapel Hill. Because of the topography, we expect significant additional impacts from noise and light pollution to the neighborhood that lies 50 feet below the proposed 4 story municipal building.

#### Safety

1. The Council kept Weaver Dairy Extension at 25mph because of the poor visibility due to a curving road. Additional traffic from a building requiring a 2-level parking garage and turning lanes near a major intersection will lead to accidents.

2. The intersection of Weaver Dairy Extension and MLK is currently rated level D and 144 accidents have occurred over a 2 year span within 800 meters of the intersection. This intersection is also the location of frequent near misses as drivers westbound on Weaver Dairy make u turns at MLK, while vehicles northbound on MLK fail to stop at Weaver Dairy and yield to u-turning drivers.

New approved developments (including Carraway Village, Bridgepoint, and Charterwood SECU) are expected to add additional traffic, which will result in more accidents.

3. The single sidewalk on Weaver Dairy Rd Extension crosses the driveways into the proposed site at multiple points. The site currently holds a fire station. Pedestrians walking on the single sidewalk and bicyclists traveling in the adjoining bicycle lane have difficulty seeing the vehicles entering and exiting the current fire station. This site has poor visibility, and vehicles entering and exiting the fire station have difficulty seeing pedestrians and bicyclists, as well. With the addition of a proposed new bus stop nearby on MLK, the number of pedestrians at risk for being hit by cars at this location will increase.

4. People who moved to this residential neighborhood are not comforted when Chief Blue says that the new police department needs 2 sally ports (defined by the Oxford Dictionary as "a small exit port in a fortification for the passage of troops") in this location. He wrote, "Having 2 sally ports affords us an additional level of security in those rare but potentially serious circumstances" when the police apprehend multiple suspects and bring them into the Municipal Services Building.

In January 2018, while pursuing the 20 acre Estes Drive location for a Municipal Services building, the Chapel Hill Town Council approved: A RESOLUTION TO RECEIVE AND REFER GUIDING PRINCIPLES FOR THE MUNICIPAL SERVICES CENTER PROJECT TO THE TOWN MANAGER AND TOWN ATTORNEY FOR INCLUSION IN A DEVELOPMENT AGREEMENT

Because of the small parcel of land involved, similar guiding principles for protecting neighborhoods such as Northwoods V would not be possible.

The potentially impacted NW Chapel Hill residents below want to believe that when you cite the Comprehensive Plan and the FLUM you are willing to stand by what is said in them. We ask that you reject this site from consideration for a Municipal Services Building.

Beth Acierno

Crista Arangala

Sanjay Arangala

Jeff Furlow

Joey Ware-Furlow

Finbar Gallagher

Marybeth Gallagher

Mar Guiterrez

Alan Hecht

**Evelyn Morris-Hecht** 

Jim Lewis

Jun Lian

Sara Owens

Marlene Panet-Raymond

**Claudia Sheppard** 

**Yioula Sigounas** 

Adam Silverstein

Justin Sime

Laura Sime

**Del Snow** 

Renuka Soll

Chiho Wang

Jeff Weinstock

Judy Weinstock

Wesley Zhang

Zhu Hong-Tu



#### PUBLIC WORKS DEPARTMENT STORMWATER MANAGEMENT DIVISION

405 Martin Luther King, Jr. Blvd. Chapel Hill, NC 27514-5705 Telephone (919) 969-7246 Fax (919) 969-7276 www.townofchapelhill.org

September 28, 2020

Mr. Raymond Bentley Ruggles Dewberry 2610 Wycliff Road Raleigh, NC 27607 <u>bruggles@dewberry.com</u>

#### RE: Stream Determination for 101-111 Weaver Dairy Road Extension, Chapel Hill, NC (Town of Chapel Hill Fire Station 4 & Fire Training Center) PINs 9880-25-0693 & 9880-15-7586

Dear Mr. Ruggles:

As requested, the Town Public Works Department has performed a stream determination for the property identified on the attached forms. This determination indicates whether different types of streams (perennial, intermittent, and/or ephemeral) or perennial waterbodies are present on the property in question or on nearby properties. These streams and their classifications are shown on the accompanying area map. Stream segments regulated by the Town's Jordan Lake Watershed Riparian Buffer regulations are highlighted. **Locations of all features on the map are <u>approximate</u> and must be field surveyed for precise location.** 

This stream determination information is used to determine the location and extent of the Resource Conservation District (RCD) and Jordan Lake Watershed Riparian Buffers. Specific land use regulations and restrictions apply within the boundaries of these protected areas. If you are considering any kind of work on this property, including clearing vegetation, paving, grading, or building, please consult with the Town Planning Department to determine the possible extent of the Resource Conservation District (RCD) and Jordan Lake Watershed Riparian Buffer on this property and the applicable corresponding regulations.

This stream determination will remain in effect for five years from the date of the site visit, after which a new stream determination with site visit will be required.

In accordance with the Town's procedures, you may appeal this administrative decision to the Town Manager. If you wish to do so, you must file your written appeal accompanied by any materials you believe support your appeal, within **30 days** of receipt of this letter.

If you have questions regarding stream determinations, please contact me at (919) 969-7202 or <u>aweakley@townofchapelhill.org</u>. If you have questions regarding the Town's Resource Conservation District (RCD) or the Jordan Watershed Riparian Buffer regulations, please contact the Planning Department at (919) 968-2728, or view information online at: <u>http://www.townofchapelhill.org/stormwater</u>.

Sincerely,

AllisonWeakley

Allison Schwarz Weakley Stormwater Analyst



#### PUBLIC WORKS DEPARTMENT STORMWATER MANAGEMENT DIVISION

405 Martin Luther King, Jr. Blvd. Chapel Hill, NC 27514-5705 Telephone (919) 969-7246 Fax (919) 969-7276 www.townofchapelhill.org

# STREAM DETERMINATION SITE VISIT RESULTS

Property Information					
Parcel ID Number (PIN) Address / Location Description					
9880-25-0693 & 9880-15-7586	101-111 Weaver Dairy Road Extension, Chapel Hill				
9880-23-0095 & 9880-13-7380	Town of Chapel Hill Fire Station 4 & Fire Training Center				

These are the results of a site visit to the property(ies) listed above for a stream determination conducted on  $\frac{9/22}{2020}$  by Town Staff:

No perennial, intermittent, or ephemeral streams or perennial waterbodies were identified on or near the property(ies) in question.

Perennial, intermittent, or ephemeral streams, or perennial waterbodies, were identified on or near the property(ies) in question and are shown on the attached map(s).

A map showing water features, their Town flow classifications, presence of Jordan Watershed Riparian Buffers, and their <u>approximate</u> locations is attached. *Note that Resource Conservation District (RCD) buffers may also apply but are not shown.* Origins or breakpoints that have been flagged in the field are marked on the map. Stream classification forms and additional site visit notes and maps are also attached.

Other conditions exist which may affect the location of the Resource Conservation District (RCD) or Jordan Watershed Riparian Buffer:

FEMA floodzone is mapped in the area. Precise location of the Base Flood Elevation and associated RCD must be determined by a field survey commissioned by the owner or a representative.

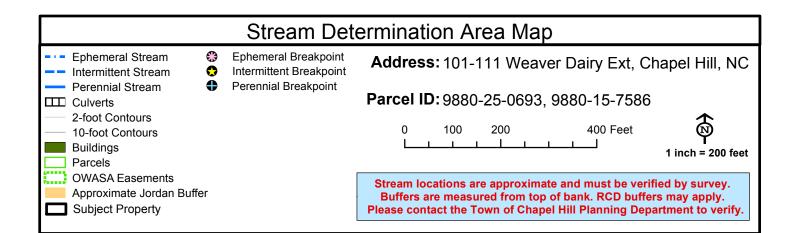
Segments of perennial or intermittent stream are piped in the area, as shown on the map. These segments do not have an associated Jordan Watershed Riparian Buffer, but do have an associated buffer if the RCD applies.

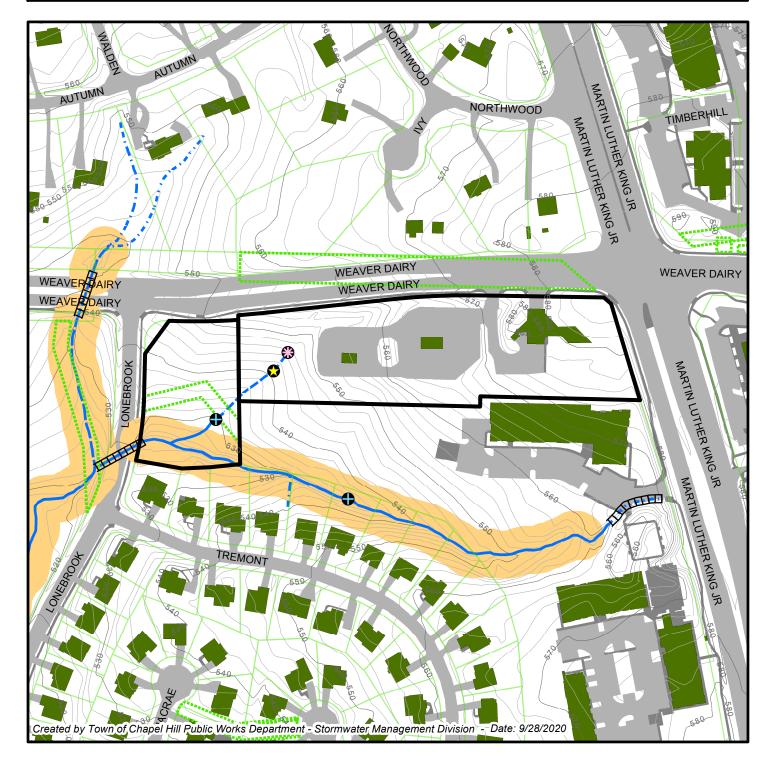
Possible Jurisdictional Wetlands have been identified in the area. A formal review by a professional certified in Jurisdictional Wetland Delineation is recommended if impacts to wetlands are anticipated.

AllisonWeakley

Town Staff Signature

9/28/2020 Date





# USGS 24K Topographic / County Soil Survey Maps

Subject Property

1 inch = 500 feet

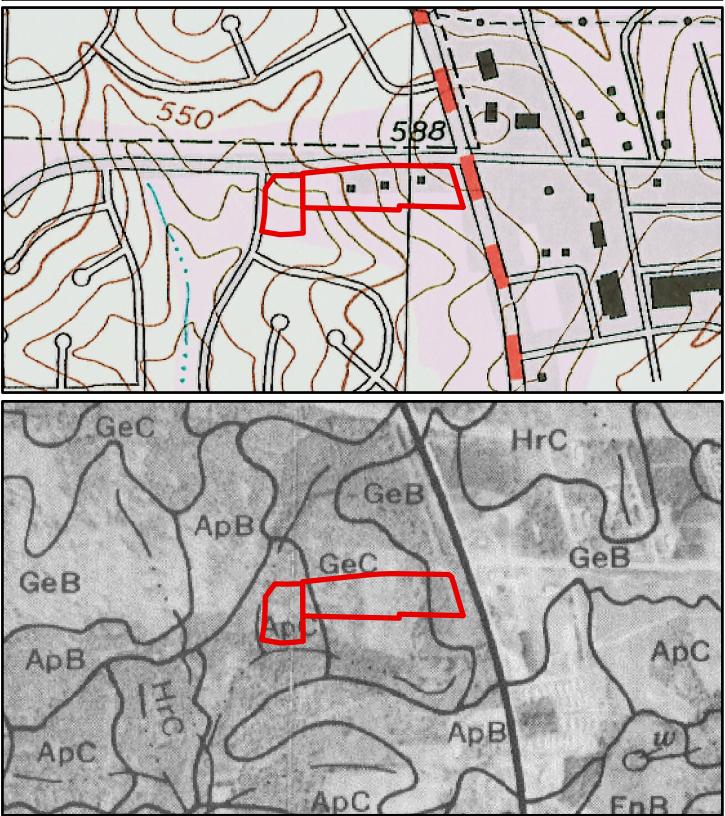
Address: 101-111 Weaver Dairy Ext, Chapel Hill, NC

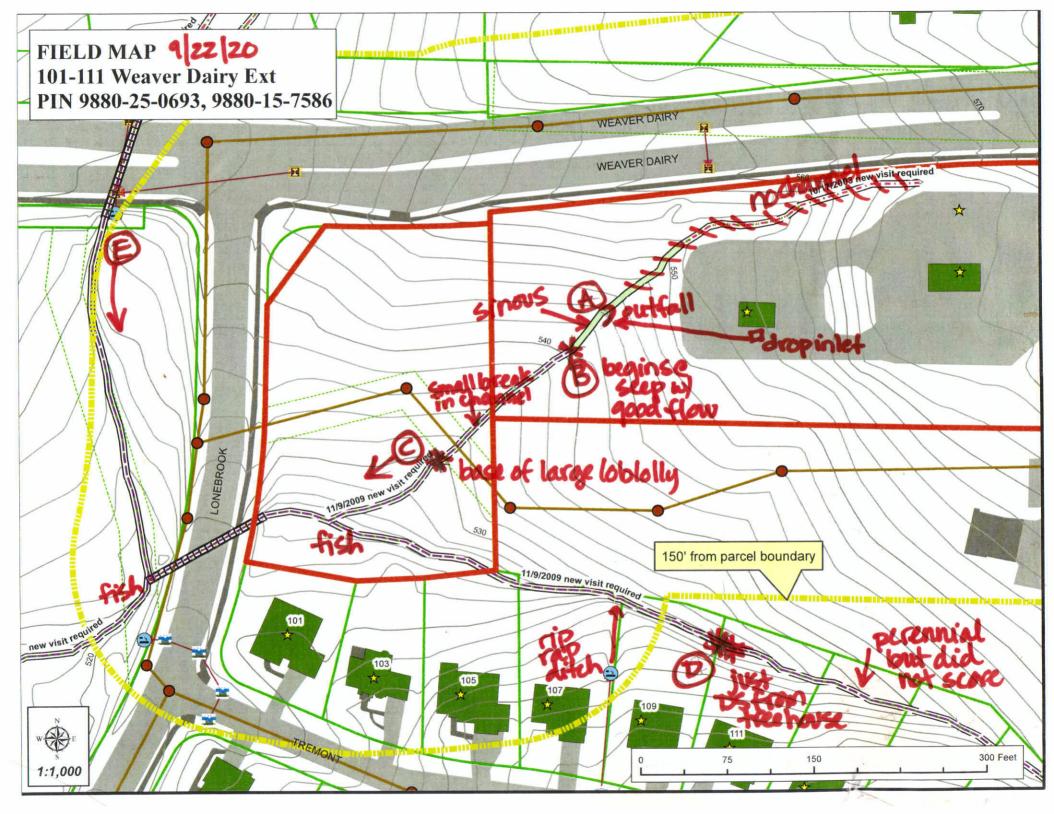
0 150 300 450 600 Feet

Parcel ID: 9880-25-0693 & 9880-15-7586



Created by Town of Chapel Hill Public Works Department - Stormwater Management Division- 9/25/2020





202009220942

Fratil@A)

NC DWQ Stream Identification Form Version 4.11				
Date: 9 22 20	Project/Site:	Dainy Ext	Latitude: 35,9635	
Evaluator: Weakley & Meumanin	County: Oranox		Longitude: 79,0608	
Total Points:Stream is at least intermittentif $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (circle one) Ephemeral Intermittent Perennial		Other e.g. Quad Name:	
A. Geomorphology (Subtotal =)	Absent	Weak	Moderate	Strong
1 <sup>a</sup> . Continuity of channel bed and bank	0	(1)	2	3
2. Sinuosity of channel along thalweg	0	1	(2)	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	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	Ń	0 = 0	Yes	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual				
B. Hydrology (Subtotal =)				
12. Presence of Baseflow	(0)	1	2	3
	0	1	2	3
13. Iron oxidizing bacteria 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	Ô	1.5
17. Soil-based evidence of high water table?		0=0)	Yes	10000
C. Biology (Subtotal =)				
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	6	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: Teature begins & tip	a mil Cil	11Com Cr	Actionio	a carlod
FRITTLE VOMOCOTAD	U I I ATTA	I H (M) H G		VALUTEL.

Ketch: Teature begins c pipe outfall (from fire training center) Lots of broken glass deposited in channel /flow path.

@ Maps do not accurately depict sinousity

202009220954

NC DWQ Stream Identification Form Version 4.11			feature	(B)	
Date: 9 22 20	Project/Site:	Dainy Ext	Latitude: 33	5.9634	
Evaluator: Weakley & Meymann	County: 0(	ange	Longitude:	79.0609	
Total Points:Stream is at least intermittentif $\geq$ 19 or perennial if $\geq$ 30*		nation (circle one) rmittent Perennial	Other e.g. Quad Name:		
A. Geomorphology (Subtotal =)	Absent	Weak	Moderate	Strong	
1 <sup>a</sup> . 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 10th of sand	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	$(1) \rightarrow$	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	(N	$o = 0^{1}$	Yes	= 3	
<sup>a</sup> artificial ditches are not rated; see discussions in manual B. Hydrology (Subtotal =)					
12. Presence of Baseflow active flow	0	1	2	3	
	0	1	(2)	3	
13. Iron oxidizing bacteria 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?		0 = 0	Yes		
C. Biology (Subtotal =)					
18. Fibrous roots in streambed	(F)	(2)	1	0	
19. Rooted upland plants in streambed	3	(2)	1	0	
20. Macrobenthos (note diversity and abundance)	0		2	3	
21. Aquatic Mollusks	$(\overline{0})$	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 On banks FACW = 0.75; OBL = 1.5 Other = 0					
*perennial streams may also be identified using other methods	s. See p. 35 of manu	al.			
Notes: Chayfish, Reedaloous diving beatle					
Sketch: Feature begins & grade control/seep (flagged).					

# 202009221014

NC DWQ Stream Identification Form Version 4.11			Fea	ture O	
Date: 9 22 20	Project/Site: 101-111 Weaver		Latitude: 35,9631		
Evaluator: Weakleyg Meymann	County: Orange		Longitude: _ 79,0613		
Total Points:Stream is at least intermittentif $\geq$ 19 or perennial if $\geq$ 30*		Stream Determination (circle one) Ephemeral Intermittent Perennial		Other e.g. Quad Name:	
A. Geomorphology (Subtotal =2)	Absent	Weak	Moderate	Strong	
1 <sup>a</sup> . 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,	0		2	3	
ripple-pool sequence				-	
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	$\bigcirc$	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	o = 0	Yes :	= 3	
<sup>a</sup> artificial ditches are not rated; see discussions in manual					
B. Hydrology (Subtotal =, S)					
12. Presence of Baseflow active flow	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?	N	o = 0	Yes	= 3	
C. Biology (Subtotal = <u>8.5</u> )					
18. Fibrous roots in streambed	3	(2)	1	0	
19. Rooted upland plants in streambed MICroster	ENUM 3 0	(-2)	1	0	
20. Macrobenthos (note diversity and abundance) M SC	11 I I want to all		2	3	
21. Aquatic Mollusks	V man	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 ON banks		FACW = 0.75; OE	BL = 1.5 Other = 0	)	
*perennial streams may also be identified using other methods	s. See p. 35 of manua		4		
Notes: tad poles abundant, crayfish, comphidae dramfly					
The suppres as and any the property and the set and the					
sketch: Feature begins a base of large Loblolly (flagged)					
on W side of sewer easement.					

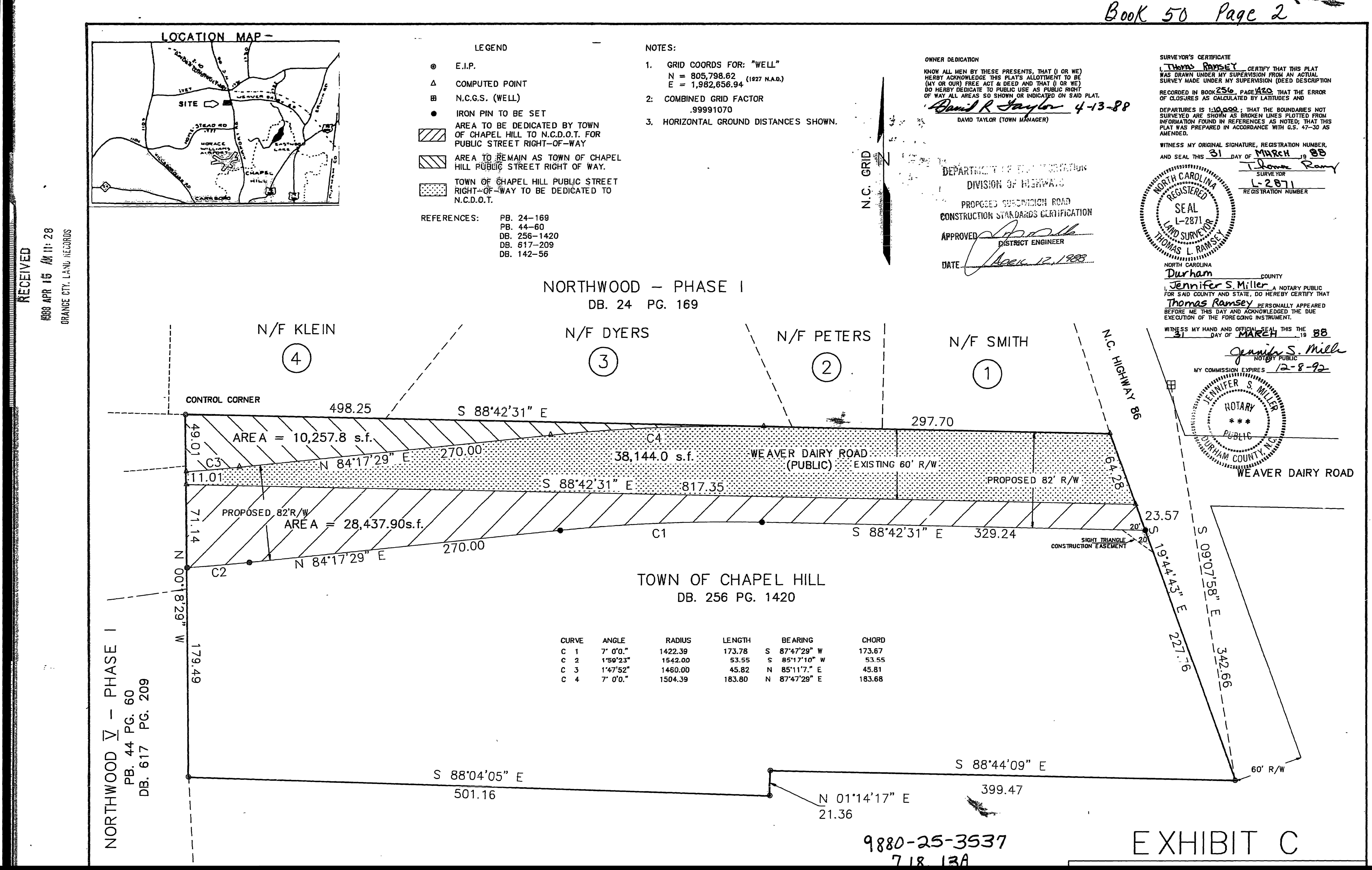
Flow goes underground in lower reach

NC DWQ Stream Identification Form Version 4.11			Feat	Nell
Date: 9 22 20	Project/Site: 101-111 Weaver		Latitude: 35.9627	
Evaluator: Weakley & Meumann	County: Ord	ingé	Longitude: 79,0604	
Total Points:Stream is at least intermittentif $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (circle one) Ephemeral Intermittent Perennial		Other e.g. Quad Name:	
A. Geomorphology (Subtotal = $15.5$ )	Absent	Weak	Moderate	Strong
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	(3)
2. Sinuosity of channel along thalweg over reach	, 0	(1)-7	2	3
3. In-channel structure: ex. riffle-pool, step-pool, Mcdue ripple-pool sequence	rate	1	2	3
4. Particle size of stream substrate Sand grand	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	$(1) \rightarrow$	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				
<sup>a</sup> artificial ditches are not rated; see discussions in manual B. Hydrology (Subtotal =(O)				
12. Presence of Baseflow active flow	0	1	2)	3
13. Iron oxidizing bacteria	0	1	2)-7	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 =)				
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)	$\bigcirc$	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 on Danks FACW = 0.75; OBL = 1.5 Other = 0				
*perennial streams may also be identified using other method	s. See p. 35 of manua	l.		à
Notes: anapanander (1), craufish (111), fish in lower reach				
abundant				
Sketch:				

# 202009221113

NC DWQ Stream Identification Form Version 4.11				ture (E)
Date: 9 22 20	Project/Site:	ain EKF	Latitude: 35,9637	
Evaluator: Weakley & Meumann	County:	ange	Longitude:	79.0623
Total Points:         Stream is at least intermittent $if \ge 19$ or perennial if $\ge 30^*$	Stream Determin Ephemeral Inte	Stream Determination (circle one) Ephemeral Intermittent Perennial		
A. Geomorphology (Subtotal =)	Absent	Weak	Moderate	Strong
1 <sup>a</sup> Continuity of channel bed and bank	0	1	2	(3)
2. Sinuosity of channel along thalweg	0	(1)	2	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	1	2	3
4. Particle size of stream substrate	0	(1)	2	3
5. Active/relict floodplain Ower reach	0	(1)	2	3
6. Depositional bars or benches	$\bigcirc$	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 = 0	Yes	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual				
B. Hydrology (Subtotal = <u>4+3</u> )				
12. Presence of Baseflow 1200	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 = 0	Yes	= 3
C. Biology (Subtotal =)				
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; OE	BL = 1.5 Other =	o none
*perennial streams may also be identified using other method	ds. See p. 35 of manua	al.		
Notes:				


sketch: Feature begins c pipe outfall S of Weaver Dairy Rd Ext/W of Lonebrook, Deep channel.



LENGTH		<b>BE ARING</b>	CHORD
173.78	S	87'47'29 <sup>*</sup> W	173.67
53.55	S	85'17'10 W	53.55
45.82	N	85'11'7." E	45.81
183.80	Ν	87'47'29" E	183.68

CURVE <u>TABLE</u> CURVE ANGLE CHORD **BE ARING** RADIUS LENGTH 8618'51' 30,13 S 23' 5'26" C 1 27.36 20,00 10'34'40' 325,00 60,00 S 71'32'12" C 2 **59.9**2 51.98 S 81'24'27" E 37,41 S 84'36'38" E 9' 9'50' 325.00 51.93 C 3 2'45'26" 777,33 37.41 5 4 S 80'39'7." E 777.33 70,00 5' 9'35' 69,98 C 5 5' 9'35' S 7.5"29'32" | С 6 777,33 70,00 69*.*98 4'41'35' 777.33 S 70'33'59" E 63.67 Ç 7 63,65 3'35'25 315.20 19,75 S 66'25'26" E 19.75 1110'58' 315,20 61,52 S 59° 2'14" E 61,42 **C** 9 315.20 S 47'51'21" E 1110'51' C 10 61,51 61,41 i'11'7." 315,20 S 36'40'22" E 61.53 C 11 61,44 1110'50 315.20 C 12 S 25'29'23" E 61,51 61,41 S 14'18'37" E C 13 11'10'41' 315.20 61,49 61.40 11'10'21' 315.20 61.46 S 3' 8' 6" E C 14 61.36 315.20 40,32 S 6'6'56" W 7'19'45" 40.29 C 15 3'49'40' 360,00 S 11'41'40" W 24,05 24.05 C 16 10'20'42" 360.00 C 17 65.00 S 18'46'50" 8 64.91 47.29 S 27'42'59″₩ 7'31'34 360.00 47.25 C 18 10°7'11<sup>™</sup>′ 83'11'56' 20.00 29.04 26.56 C 19 ¥ C 56'42'7.' 19.79 20.00 S 73'48'30" 18.99 C 20 27 2'19' C 21 50,00 23.60 S 88'11'42" E 23.38 193 C 22 41'59'59' 50.00 36.65 S 53'40'30" | 35.84 36.65 S 11'40'30" 42' 0'0<sub>-</sub>' 50.00 35.84 C 23 45'34'15**"** C 24 40.64 S 32'36'36″₩ 50-00 39.53 24 50'45'54 S 81'16'42" W C 25 44.30 42.87 50.00 71'36'52" N 37'31'54‴₩ 50.00 62,50 C 26 **58.**51 C 27 17.45 16.90 N 26'43'19" W 49'59'41" 20.00 83'11'56" S 85'40'51" W C 28 26.56 20.00 29.04 360.00 52.24 52.2<del>9</del> C 29 8'19'17' S 49'14'32" \ 11 8'27" 360.00 S 58'58'24" W 70.00 **69**\_89 C 30 11° 8'27" 360\_00 70.00 S 70'6'51" Y 69.89 C 31 11 8'27 360.00 70.00 S 81'15'18" \ 69.89 C 32 43.70 N 89'41'49" W 6\*57'18″ 360.00 43.67 N 87'38'54" W 1439.01 71.77 2'51'28" 71.78 L<u>\* \*</u> 3**\*35'0**." 90.00 S 89' 7'50" ¥ 1439.01 89.98 2**"52"0."** 1439,01 72.00 S 85'54'21" \ 20.00 5 **39**28'21" M 90°0'1." 28.28 90'51'18" S 50' 5'59" 31.71 20.00 28.49 1489.01 0"46'10" 20.00 N 84<sup>-</sup>51<sup>-</sup>27 20.00 3'51'9." 1489.01 100.12 N 87"10'5." ( 100.10 88-17'28" 20.00 30.82 N 44'56'56" 27.86 C 41 6**ʻ**33'27" 625.00 N 4' 4'55" C 42 71.53 6'39'0." 625.00 72.54 N 10**°41'9.**" E C 43 73.57 N 17'22'59" E C 44 6'44'38 625.00 49'59'41' C 45 2\*46\*20" 20.00 C 46 51'39'36" 1'56'22" 50.00 43.57 45.08 C 47 <u>44</u>~21'14" 50.00 37.75 **46' 4'6.**" 38.71 37.44 43 58 49 C 48 50.00 89**~45**~58" 61**°**26'3." 50.00 C 49 37° 3'24" C 50 78'33'38″ 50.00 32'56'19" 63.31 68.56 19 8'5." 6.68 C 51 20.00 62**'**39'8.**\*** Y 30'51'35" 20.00 C 52 37'39'18" 10.77 C 53 <u>575.00</u> 1<u>8'52'30</u>" 6"41'58" <u>67.23</u> 67,19 575.00 14"10"49" C 54 2"41"26` 27.CO 27.00 7'15'31 C 55 575.00 72.80 9**~12**\*19**\*** 72.85 C 55 575.00 4"46'21" 47<u>-</u>90 3 11'23" 47.88 C 57 43"20'32" **30.8**2 27.86 85'17'28" 20.00 1\*16'5." 1489.01 32.96 C 58 32.96 S 86'51'12" C 59 12'20'31" 310.00 66.78 N 87'36'34" | **66.6**5 C 60 310.00 16"35'34" 89.78 N 73 8'31" 89.46 17**'38'1**7` C 61 310.00 95.43 N 56° 1'35" | 98~55'36" C 62 34.53 2"15"21" 20.00 C 63 45"25"54" 39.65 N 29° 0'12" 🕷 50.00 C 64 49"14"48" N 18"20'8\_" F 41.D*1* 44"16"12" C 65 37.68 N 65' 5'38" | 50.00 62'37'46' C 66 54.65 51.97 61**′**27**′**22″ 50.00 51\*49'13" C 67 50.00 43.70 **4**"13'52" | 45.22 73 23 54 C 6B 23.90 15° 1'12<sup>\*\*</sup> 20.00 25.62 98 55 36 C 69 20.00 34.53 30.40 N 78"49'1." E 19"34"23" 310.00 105.90 105.39 N 19'34'1\_" E C 70 2\*16'45 265.20 C 71 10.55 N 8'38'26" | 10.55 27'36'58' 265.20 127.83 C 72 6"18"24" 126.59 24"21"29" 265.20 C 73 112.74 N 32"17'38" 111.90 23 44 47 C 74 265,20 109.91 109.13 N 56"20"47" ¥ 2"40'8." 727.33 33.88 N 69'33'17" ¥ C 75 7 811 727.33 C 76 90.59 N 74"27'23" ¥ 90.53 6"27"57" 727.33 C 77 N 81"15'28" ¥ 82.08 1"29'55" C 78 727.33 19.02 N 85'14'24" ₩ 19.02 7\*46'59" 375.00 C 79 50.94 N 82' 5'52" ¥ 8618'53 C 80 20.00 S 70'35'43" ¥ 27.3L 30.13 2\* 2'37\* C 81 680,00 28<sup>-</sup>27'35" 24.26 24.2 1"27"58" 891.03 C 82 22.80 S 28"44"48" V 22.80 4 40 56 C 83 25"40"28" ¥ 891.03 72.82 5 21 3'29" ¥ **4'33'1** C 84 891.03 -----/ V-/ V /0./0 35'11" C 85 891.03 16<sup>-</sup>29'22**"** ₩ 71.32 71.31 4**542**. C 86 891.03 11**'44'**45" 76.19 76.21 C 87 891.03 4'54'15' 76.27 6'50'39" 76.2 4 54 25 C 88 891.03 76.2 **1′56′**17**\*** 76.31 4° 9'25" 891.03 2'35'38" C 89 64.63 572.10 64.65 35 0'32" 951.03 581.10 C 90 11'58'37 620.00 C 91 305.05 301.98 28"11"24" 15**'23'11**″ 6'59'48" 680.00 C 92 81.26 16'38'34" V 81.21 11'55'41" 680.00 C 93 141.56 7'15'19" 141.31 1~28'13" 625.00 C 94 16.04 N 21<sup>-</sup>29'24" 16.04 375.00 1455.00 11**"**57'30" 5"12'50" 78.27 72'13'37" 78.13 C 95 C 97 132.41 132.37 88'41'3." Y 4'58'14' C 98 1560.00 135.33 135.29 88`48'21" C 99 89'59'59" 40.00 62.83 **45'17'29**\* 56.57 90° 0'0.\* 40.00 C100 62.83 43'42'30" | **56.5**7

1011 CONNER'S CERTIFICATE OF DEDICATION





#### PUBLIC WORKS DEPARTMENT STORMWATER MANAGEMENT DIVISION

405 Martin Luther King, Jr. Blvd. Chapel Hill, NC 27514-5705 Telephone (919) 969-7246 Fax (919) 969-7276 www.townofchapelhill.org

# **REQUEST FOR STREAM DETERMINATION**

Stream determinations provide information used to determine whether the Town's Resource Conservation District (RCD) or Jordan Watershed Riparian Buffer Protection regulations apply to a property. Town staff will typically conduct a field visit to classify streams on the property(ies) indicated below within two weeks of a request, depending on weather conditions, staff availability, and scope of the request. Please note that stream determinations cannot be conducted within 48 hours of a rain event. There is no fee for stream determinations conducted by Town staff.

A stream determination report indicates the results of a stream classification. Stream classifications expire after five years. If a stream determination has been completed on or near the property(ies) listed below within the last five years, a site visit may not be required unless local hydrology has changed significantly or the stream classification has expired. If a site visit is not required, the stream determination will be based on a records review.

Requests may be emailed (<u>aweakley@townofchapelhill.org</u>), faxed, dropped off at Town Hall or the Stormwater Office, or mailed to the above address in care of the "Stormwater Analyst."

Requestor's Name:	Raymond Bentley Ruggles					
Mailing Address:	2610 Wycliff Rd					
City, State, ZIP:	Raleigh, NC 27607					
Phone / FAX / Emai	l:984-833-4833 brug	ggles@dewberry.com				
Check method(s) fo report to be sent:	r 🗌 US Ma	il 🛛 🗵 Email	🗌 FAX	Call for pickup		
	erty owner or design ndicated below for p			ion to Town Staff to enter n:		
Mary	Jane Nirdl	inger	0	9/09/2020		
<u>Mary</u> Jane Nirdlinger 09/09/2020 (Signature) (Date)				(Date)		
Owner Name(s):	Town of Chapel Hil	I				
	(Please print)					
Property Informat	tion					
Fill in both columns, o	<u>or</u> fill in Parcel ID Numbe	r (PIN) and attach a sit	e map indicating loc	ation.		
Parcel ID Number (PIN)		Address / Location Description				
9880250693 & 9880157586		405 Martin Luther King Jr Blvd (Fire Station and Training Facility)				

Where the **total area** of the property(ies) to visit is **over 3 acres**, please attach an as-built drawing or a topographic map with current landmarks.