

May 24, 2007

Orange United Methodist Church 1220 Martin Luther King, Jr. Blvd. Chapel Hill, NC 27514 ATTACHMENT 14 ENGINEERING DEPARTMENT STORMWATER MANAGEMENT

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

RE: Stream determination

PIN: 9880-20-9387, 9880-30-2035 TMBL: 7.24..36, 7.24E.A.10

To Whom It May Concern:

As requested, the Town Engineering Department has performed a stream determination on the properties identified below. This determination provides important information regarding different types of streams (perennial, intermittent, and/or ephemeral) and whether or not any such streams are present on or adjacent to the properties in question. Based on this stream determination, and characteristics such as elevation and location, these properties may include a Resource Conservation District (RCD) area. Specific land use regulations and restrictions apply within the boundary of the RCD.

We performed a site inspection of these properties, Tax Map # 7.24..36, PIN # 9880-20-9387, and Tax Map # 7.24E.A.10, PIN # 9880-30-2035 at 1220 Martin Luther King, Jr. Blvd. (Orange United Methodist Church) on May 24, 2007. We determined that the properties do contain an ephemeral stream running through the center of the properties, as well as a perennial stream running along the southern border, and another perennial stream (Booker Creek) running along the eastern border. We have not identified any other streams on adjacent properties that may affect the location of the Resource Conservation District boundary on the properties in question. Comments and findings regarding our site inspection can be found on the attached stream determination form and map.

NOTE: THIS IS A STREAM DETERMINATION ONLY. It is intended to assist the requestor in identifying whether or not the properties in question include a Resource Conservation District and, if so, where it is located, depending on which ordinance(s) are applicable.

Please provide a copy of this information to a registered Land Surveyor for use in the preparation of your parcel plan or plat, which must be submitted with the permit application documents for review and approval by the Town. It is the responsibility of the Surveyor to review the stream determination information in association with information available in Article 3.6.3 of the Land Use Management Ordinance (LUMO) to identify the applicable RCD criteria. The Surveyor must certify whether or not a Resource Conservation District exists on the properties in question and, if so, where the RCD boundary is located. The following language must be provided verbatim on the application plan or plat and must be certified by a registered Land Surveyor. No additional or alternative wording or caveats are acceptable.

1. "This parcel is not located within the Resource Conservation District as defined in the Chapel Hill Development Ordinance/Land Use Management Ordinance."

 \underline{Or}

2. "All or a portion of this parcel is located within the Resource Conservation District as defined in the Chapel Hill Development Ordinance/Land Use Management Ordinance and as shown hereon."

If you have questions regarding stream determinations, please contact me at (919) 969-7202. If you have questions regarding the Town's Land Use Management Ordinance or Resource Conservation Districts, please contact the Planning Department at (919) 968-2728, or view a copy online at http://www.townofchapelhill.org/index.asp?NID=149.

Regards,

Patricia D'Arconte

Stormwater Engineering Technician

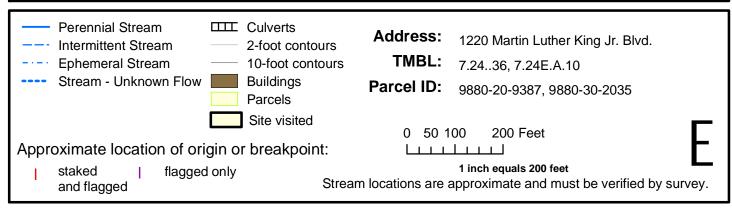
cc: Planning Department

TOWN OF CHAPEL HILL REQUEST FOR DETERMINATION OF AN INTERMITTENT OR PERENNIAL STREAM

AN INTERMITTENT OR PERENNIAL STREAM
DATE: May 9, 2009
*NAME OF PROPERTY OWNER/REQUESTOR:
Orange United Methodist Church
ADDRESS OF PROPERTY OWNER/REQUESTOR: CITY STATE ZI
1220 Martin Luther King Jr. Blud. Chapel Hill, Nears
PROPERTY OWNER/REQUESTOR'S PHONE NO:
942-2825
LOCATION ADDRESS: CITY STATE ZIP
1220 Martin Luther King Jr Blud. CH. NC 27514 LOCATION TAX MAP# BLOCK LOT TOPO
LOCATION TAX MAP # BLOCK LOT TOPO
7. 24E, A. 10+ 24 36 + 41C
PIN#
9880-30-0704 9880-30-2035 9880-30-0712
A PINS/TMBLMAPS REQUIRED TO MAKE DETERMINATION: 3 Acres or less - Plat or Tax Map 3 Acres or more - Plat and Topo
7880 - 20 - 9387 7.24.36 ENGINEERING DEPARTMENT USE 7.24E_A.10
DATE OF INSPECTION(S) 5/24/2007
WEATHER Cloo TEMPERATAURE
INSPECTED BY D'ARCONTE
ephemeral stroam flows to Booker Goeke nother perennial stream along southern boundary

^{*}Requestor must be the property owner OR written permission must be obtained from the property owner and attached to this request.

Stream Determination Area Map





North Carolina Division of Water Quality – Stream Identification Form; Version 3.1

Date: SID-1107 Project: Evaluator: D'AR CONTE Site: VM		Latit	ude:	
	, behind	Long	itude:	
Total Points: Stream is at least intermittent County: if ≥ 19 or perennial if ≥ 30	_	Othe	r }∪ad Name:	
A. Geomorphology (Subtotal =	Absent	18/1		
1ª. Continuous bed and bank		Weak	Moderate	Strong
2. Sinuosity	2		2	3
In-channel structure: riffle-pool sequence	Magazini (Caranteria)	7	2	3
Soil texture or stream substrate sorting	-04	11	2	3
Active/relic floodplain		1	2	3
Depositional bars or benches	U	(1)	2	3
7. Braided channel	- Company	<u> </u>	2	3
Recent alluvial deposits	<u> </u>	O.	2	3
9 a Natural levees	0	1	Q	3
10. Headcuts		1	2	3
11. Grade controls	_ (پ	1 1	2	3
12. Natural valley or drainageway	0	0.5	(1)	1.5
Second or greater order channel on existing		0.5	1 CD	1.5
USGS or NRCS map or other documented evidence. a Man-made ditches are not rated; see discussions in manual) yd	= 0	Yes	= 3
B. Hydrology (Subtotal =) 14. Groundwater flow/discharge)	(<u>0</u>)	1	2	3
15. Water in channel and > 48 hrs since rain, or Water in channel dry or growing season	(0)	1	2	3
16. Leaflitter	1.5	1	0.5)	
17. Sediment on plants or debris	0	(0.5)	(0.5)	0
18. Organic debris lines or piles (Wrack lines)	0	0.5		1.5
19. Hydric soils (redoximorphic features) present?		= 0)	Yes =	1.5
7	140	HID'ES		= 1.5
C. Biology (Subtotal =)				
20 ^b . Fibrous roots in channel	3	2		0.
21 ^b . Rooted plants in channel	3	2	(1)	0
22. Crayfish	(0)	0.5	1	1.5
23. Bivalves	76	1	2	3
24. Fish	<u>(9)</u>	0.5	1 1	1.5
25. Amphibians	(0)	0.5	† †	1.5
26. Macrobenthos (note diversity and abundance)	70	0.5	1 1	1.5
27. Filamentous algae; periphyton	70)	1	2	3
28. Iron oxidizing bacteria/fungus.	(6)	0,5	1	1.5
29 ^b . Wetland plants in streambed	FAC = 0.5; FA	CW = 0.75; OP	1 = 15 SAV - 2	O: Other = 0
b Items 20 and 21 focus on the presence of upland plants, I	tem 29 focuses on	the presence of a	quatic or wetland bla	ants,
Notes: (use back side of this form for additional notes.)		Sketch	•	
			ural dra	nogewh
cohemeral stream - do	Nor 29 c	too cua	allow non	

North Carolina Division of Water Quality - Stream Identification Form: Version 3.1

Date: S/AU/07 Proje	ect:	Latit	ude:		
Evaluator: DIARWNTE Site:	UMC - SI	outh Long	itude:		
otal Points: Stream is at least intermittent 70,5 Cour ≥ 19 or perennial if ≥ 30		Othe	r Quad Name:		
A Goomorphology to 1111 20					
A. Geomorphology (Subtotal = 20 a. Continuous bed and bank	_) Absent	Weak	Moderate	Strong	
Sinuosity		1	2	32	
		1	2	(3)	
. In-channel structure: riffle-pool sequence	0	11	(3)	3	
. Soil texture or stream substrate sorting	0	1	(2)	3	
. Active/relic floodplain	0	11	2	(D)	
Depositional bars or benches	0	1	(2)	3	
. Braided channel		_ 1	2	3	
Recent alluvial deposits	0	1	(2)	3	
^a Natural levees	0	(D)	2	3	
0. Headcuts	(0)	1	2	3	
1. Grade controls	Ö	0.5	Φ	1.5	
2. Natural valley or drainageway	0	0.5		1.5	
		No = 0		Yes = 3	
 Second or greater order channel on <u>existi</u> USGS or NRCS map or other documente evidence. 	od N	lo = 0	Yes	= 3	
USGS or NRCS map or other documente evidence.	od N	lo = 0	Yes	= 3	
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USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions 3. Hydrology (Subtotal =	in manual	lo = 0	Yes 2	4:	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions 3. Hydrology (Subtotal =	in manual 0	1	2	<u>(3)</u>	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions 3. Hydrology (Subtotal =	in manual O or O			4:	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions 3. Hydrology (Subtotal =	in manual 0	1	2	<u>(3)</u>	
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USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions B. Hydrology (Subtotal =	or 0 1.5.0 0	1 1 1 0.5 0.5	2 2	3	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions B. Hydrology (Subtotal =) 4. Groundwater flow/discharge 5. Water in channel and > 48 hrs since rain, Water in channel dry or growing season 6. Leaflitter 7. Sediment on plants or debris	or 0 1.5.0 0	1 1 1 0.5	2 2	0 1.5 1.5	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions 3. Hydrology (Subtotal =	or 0 1.5.0 0	1 1 1 0.5 0.5	2 2 0.5	0 1.5 1.5	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions 3. Hydrology (Subtotal =	or 0 1.5.0 0	1 1 1 0.5 0.5 0.5	2 2 0.5	0 1.5 1.5 = 1.5	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions B. Hydrology (Subtotal =	in manual 0 or 0 1.5 0 0 ent? N	1 1 1 0.5 0.5	2 2 0.5 Yes	0 1.5 1.5 = 1.5	
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USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions J. Hydrology (Subtotal =	or 0 0 0 0 ent? N	1 1 1 0.5 0.5 0.5	2 0.5 Yes =	0 1.5 1.5 = 1.5 0 0	
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USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions B. Hydrology (Subtotal =	or 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0.5 0.5 0.5 10 = 0	2 0.5 Yes =	0 1.5 1.5 = 1.5 0 0 1.5 3 1.5 1.5 1.5	
USGS or NRCS map or other documente evidence. Man-made ditches are not rated; see discussions 3. Hydrology (Subtotal =	or 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0.5 0.5 0.5 0.5 0.5 0.5 0.5	2 0.5 Yes =	0 1.5 1.5 = 1.5 0 0 0 1.5 3 1.5 1.5 1.5	

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