

TOWN OF CHAPEL HILL

March 11, 2004

Warren Mitchell Mitchell Westendorf 210 North Columbia Street Chapel Hill, NC 27516

Dear Mr. Mitchell,

As requested, the Town Engineering Department has performed a stream determination on the property 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 property in question. Based on this stream determination, and characteristics such as elevation and location, this property 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 the eastern side of this property, Tax Map # 7.17..22, PIN # 9890-06-5926, on Sunrise Road near I-40 (no address assigned) on March 4, 2004. We determined that this area does not contain any perennial, intermittent, or ephemeral streams. The western side was previously determined to contain a perennial stream on March 7, 2003. Comments and findings regarding our site inspection can be found on the attached stream determination form and map. If a stream or streams are identified on your property, wooden stakes may be placed at the beginning and ending points of different types of streams.

We have not identified any streams on adjacent properties that may affect the location of the Resource Conservation District boundary on your property. The Town may require additional stream determinations if it appears likely that an RCD area associated with streams located on adjacent properties may affect the property in question. A request for a stream determination on an adjacent property must be accompanied by written "right of entry" permission from the owner(s) of the adjacent property.

<u>NOTE:</u> THIS IS A STREAM DETERMINATION ONLY. It is intended to assist the requestor in identifying whether or not the property in question includes 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 property 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."

Or

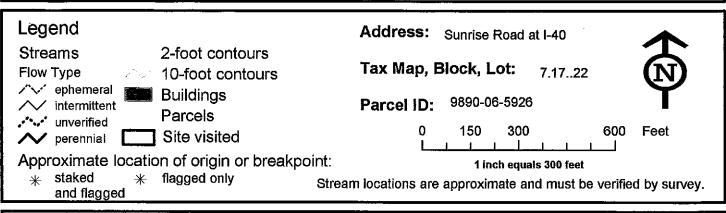
2. "All or a portion of this parcel is located within the Resource Conservation District as defined in the Chapel Hill Development Ordinance/Land Use Management Ordinance and as shown hereon."

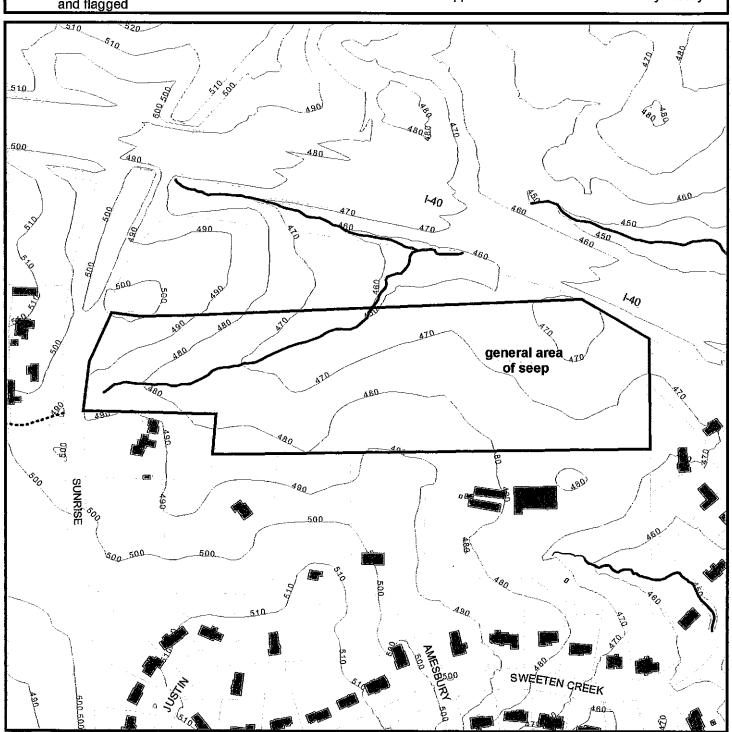
If you have questions regarding stream determinations, please contact me at (919) 968-2833. If you have questions regarding the Town's Land Use Management Ordinance or Resource Conservation Districts, please contact the Planning Department at (919) 968-2728, or view a copy online at http://www.townofchapelhill.org/planning/planning_development/development_ordinance.htm.

Regards,

Patricia D'Arconte Engineering Technician

Stream Determination Area Map



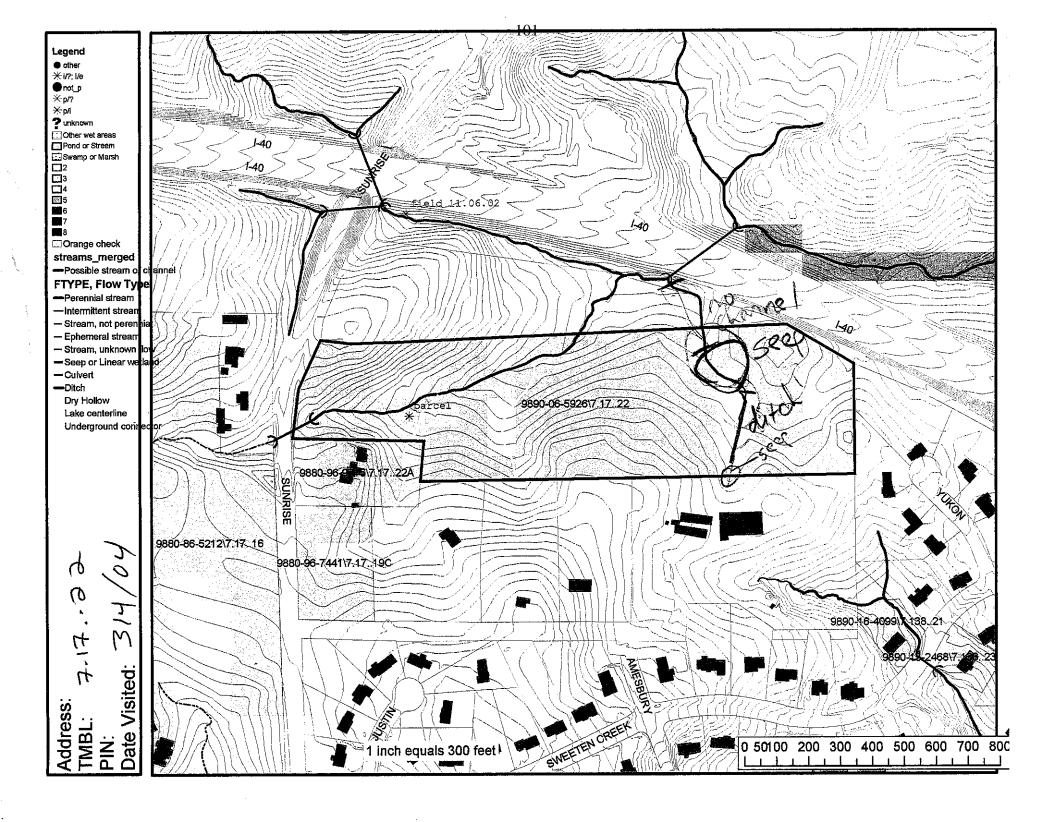


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REQUEST FOR REVIEW

9	E. A PEREN	N	ŦA	8	TREAM-

DATE March 2, 2002
NAME Warren Mitchell
ADDRESS 210 N. Columbia street
NAME OF FIRM Mitchell Westendorf
PHONE NO. 919 - 932-456-7
LOCATION Habitat for Humanity - Survise Road @ I-40
TAX MAP BLOCK . / / LOT 22 TOPO
haps required to make determination PIN: 9890-06-5926
3 Acres or less - Plat or Tax Map 3 Acres or more - Plat and Topo
and the second of the design of the second o
ENGINEERING DEPARTMENT USE
DATE OF INSPECTION(S) $3/4/04$
WEATHER Clear TEMPERATURE
INSPECTED BY D'Arconte or Royal
COMMENTS
The eastern side of this property was visited
317/03. A low area there was previously
determined to be an intermittent stream.
However, although this "boggy area" may qualify as a "natural intermittent stream variant" by
as a "natural intermittent stream variant" by
wrent LUMO guidance, it is not hydrologically
perennial stream that crosses under I-40.
This area does have some important hydrologic
This area does have some important hydrologic functions, and impacts to this seep should
be avoided or ninimized.





MEMORANDUM

DATE:

March 2, 2004

TO:

Fred Royal, Engineering Department, Town of Chapel Hill

FROM:

Warren Mitchell

RE:

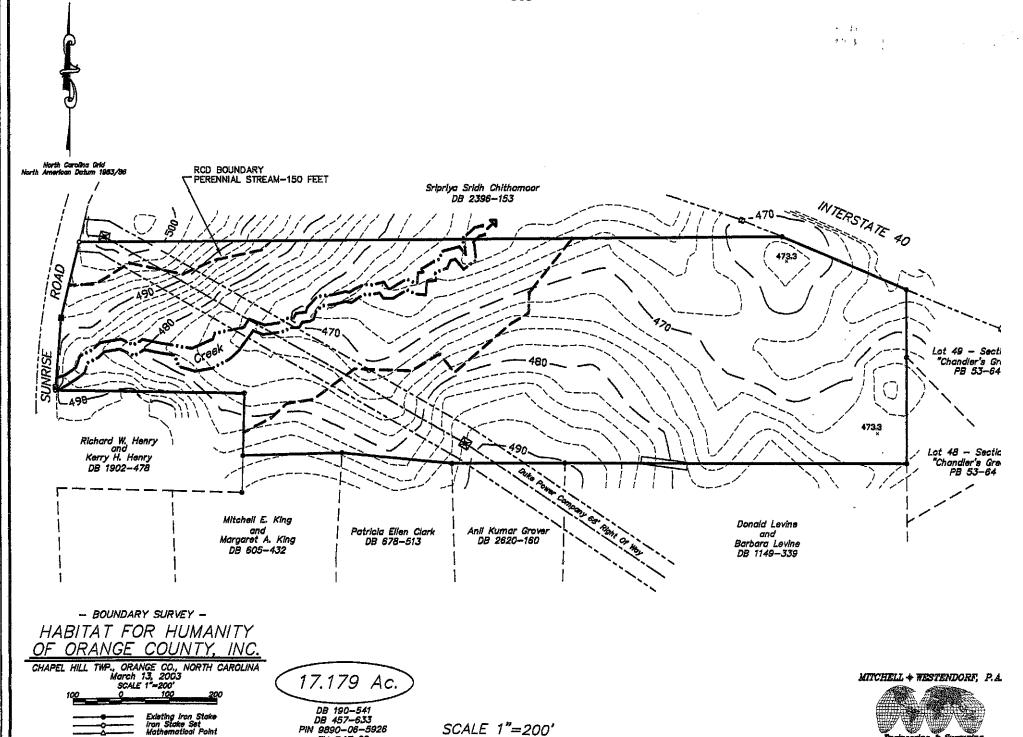
Sunrise Road – Habitat for Humanity

RCD Determination Request

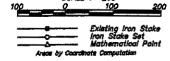
Fred:

Please accept this request to perform a determination of RCD at this property. A determination was performed last year on the perennial stream shown on the included map. We would like to have the back of the property determined to see if an intermittent stream exists in addition to the Perennial stream shown. A corps wetlands study has been completed and a map signed off by the Corps for the wetlands. Thank You.

Warren



TM 7.17..22



17.179 Ac.

DB 190-541 DB 457-633 PIN 9890-06-5926 TM 7.17..22

SCALE 1"=200'



NCDWQ Stream Classification Form

Project Name:

River Basin:

County:

Evaluator:

DWQ Project Number:

Nearest Named Stream:

Latitude:

Signature:

Date:

USGS QUAD:

Longitude:

Location/Directions:

PLEASE NOTE: If evaluator and landowner agree that the feature is a man-made ditch, then use of this form is not necessary. Also, if in the best professional judgement of the evaluator, the feature is a man-made ditch and not a modified natural stream—this rating system should not be used

Primary Field Indicators: (Circle One Number Per Line)

I. Geomorphology	Absent	Weak	<u>Moderate</u>	Strong
1) Is There A Riffle-Pool Sequence?	0	(1)	2	3
2) Is The USDA Texture In Streambed				
Different From Surrounding Terrain?	0	<u> </u>	2	. 3
3) Are Natural Levees Present?	(0)	1	2	3
4) Is The Channel Sinuous?	<u>(0)</u>	1	2	3
5) Is There An Active (Or Relic)	Same Par	\wedge		· —
Floodplain Present?	0	<u> </u>	2	3
6) Is The Channel Braided?		_ · · _ 1	2	3
7) Are Recent Alluvial Deposits Present?	<u> </u>	1	(2)	3
8) Is There A Bankfull Bench Present?				3
9) Is a Continuous Bed & Bank Present?		_	2	3
(*NOTE: If Bed & Bank Caused By Ditching And WITHO	UT Sinuosity The	1 Score=0*)		
10) Is a 2 nd Order Or Greater Channel (As Indic		. 6	<u>-</u>	
On Topo Map And/Or In Field) Present?	Yes=1		<u>/o=0</u>)	
PRIMARY GEOMORPHOLOGY IND	HCATOR P	OINTS:		
II. Hydrology	Absent	<u>W</u> eak	<u> Moderate</u>	Strong
1) Is There A Groundwater				-
Flow/Discharge Present?	0	1	(2)	3
PRIMARY HYDROLOGY INDICATO	R POINTS	: 'ك		
III. Biology	Absent	Weak	Moderate	Strong
1) Are Fibrous Roots Present In Streambed?	3	. 2	<u> </u>	0
2) Are Rooted Plants Present In Streambed?	<u>(3)</u>	2		0
3) Is Periphyton Present?	0	1	(2)	3
4) Are Bivalves Present?	0	, 1	2	3
PRIMARY BIOLOGY INDICATOR P	OINTS:	0		

Secondary Field Indicators: (Circle One Number Per Line)

I. Geomorphology	Absent	Weak	Moderate	Strong
1) Is There A Head Cut Present In Channel?	(D)	.5	11	1.5
2) Is There A Grade Control Point In Channel?	$\langle 0 \rangle$		1	1.5
3) Does Topography Indicate A				 _
Natural Drainage Way?	0	(,5	<u> </u>	1.5
SECONDARY GEOMORPHOLOGY INDICATOR POINTS: 0.5				

II. Hydrology	Absent	Weak	Moderate	Strong
1) Is This Year's (Or Last Year's) Leaflitter	•		-	
Present In Streambed?	1,5	<u> </u>	5	
2) Is Sediment On Plants (Or Debris) Present?	0	5		1.5
3) Are Wrack Lines Present?	(0)	.5	1	1.5
4) Is Water In Channel And >48 Hrs. Since	0	.5		1.5
Last Known Rain? (*NOTE: If Ditch Indicated In #S	Above Skip This S	tep And #5 Below*)		
5) Is There Water In Channel During Dry	0	.5	1	1.5
Conditions Or In Growing Season)?	·			
6) Are Hydric Soils Present In Sides Of Channel	(Or In Headen	t)? $Y_{es}=1.5$	· · · · · · · · · · · · · · · · · · ·	No=0
SECONDARY HYDROLOGY INDICA	TOR POINT	TS: 3.5		

III. Biology	Ab	sent	Weak	Moderate	Strong
1) Are Fish Present?		<u>o</u>)	<u>.5</u>	1	1.5
2) Are Amphibians Present?		0	(.5)	1	1.5
3) Are AquaticTurtles Present?		0_)	.5	<u> </u>	1.5
4) Are Crayfish Present?		0.2		1	1.5
5) Are Macrobenthos Present?		<u> </u>	(5)	1	1.5
6) Are Iron Oxidizing Bacteria/Fungus Present?)	0	<u>(.5)</u>	11	1.5
7) Is Filamentous Algae Present?	<	0/	5	11	1.5
	AV	Mostly OBL	Mostly FACW	Mostly FAC	Mostly FACU Mostly UP
(* NOTE: If Total Absence Of All Plants In Streambed	2	1	.75	.5	. 0
As Noted Above Skip This Step UNLESS SAY Present*).			· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·	
SECONDARY BIOLOGY INDICATO	R PO.	INTS: . ·	ેલ ્		

TOTAL POINTS (Primary + Secondary) = 19,5 (If Greater Than Or Equal To 19 Points The Stream Is

This would be a Natural Intermittent Stream.

Notes: Variant if it were directly winnected:

The eastern side of this property is hydrologically complex. There appears to be a seep or/near the southern property line (by the fotted Plant). A ditch has been dug northwards, and its channel shape becomes more like that of an intermittent stream when it runs through a second seep. This channel peters cut quickly though, and no channel or linear wetland connects it with the perennial stream by I.40. This area is an isolated wetland though a formal wetland identification and delineation should by windwated by the Army Corps of Engineers.