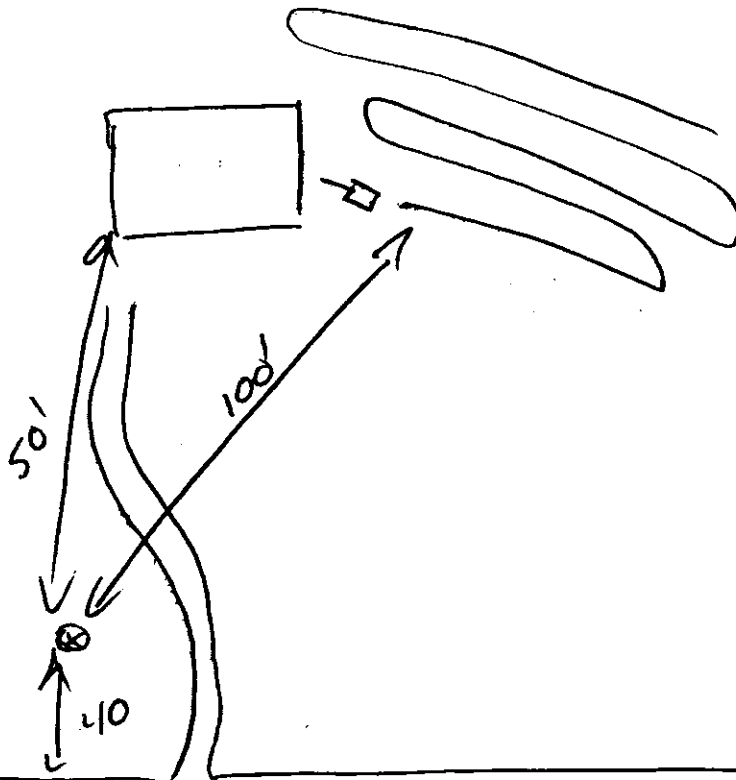


# ORANGE COUNTY HEALTH DEPARTMENT

REFERENCE NUMBER <b>H17221W WELL PERMIT</b>	DATE <b>07.20.92</b>	PIN <b>0900-42-4673</b>	MAP REFERENCE <b>1.3..6M</b>
REQUESTED BY: <b>GATES BONNIE M                  P O BOX 399                  HILLSBOROUGH NC 27278                  TELEPHONE: 732-9417</b>		OWNER: <b>GATES BONNIE M                  &amp; ROGER DALE STEPHENS                  P O BOX 399                  HILLSBOROUGH NC 27278</b>	
SPECIFICATIONS: <b>DRILL</b>		LOT SIZE / ACREAGE: <b>A10.01</b>	DESIGNATED WETLAND? YES _____ NO _____
LOCATION / DIRECTIONS: <b>#12 SLEEPY HOLLOW</b>			
FEE: <b>100</b>		RECEIPT: <b>049570</b>	
SIGNATURE OF OWNER OR AUTHORIZED AGENT: 			
CONFIRMED BY PLANNER:	PLANNER	DATE	CLERK

TYPE DRIELED SIZE 6" DEPTH 130' CASE DEPTH 55'  
 GROUT SAND MIX YIELD 15 GPM LEVEL 20' WATER ZONE 60'  
 CONTRACTOR: MCCALL BROS. DRILLER: SAM BAINBRIDGE

REMARKS: KEEP WELL 100' FROM S.T. SYSTEM  
50' FROM HOUSE  
40' FROM ANY PROPERTY LINE.



DATE ISSUED 2-17-93

ENV HEALTH SPEC

DATE APPROVED 5-21-93

ENV HEALTH SPEC

# PERMIT INFORMATION

## I. General Information - Contact Information

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No substantial changes or deviations from the information on the front of this document are allowed unless prior approval is obtained from the Health Department.

The Environmental Health Staff is located at 306-C Revere Road, Hillsborough, N.C. The staff is available in this office or by telephone, Mon. - Fri., 8:00 AM - 9:00 AM and 4:30 PM - 5:00 PM. Messages can be left for the staff at the following numbers:

Hillsborough	732-8181, ext. 2360
Mebane	227-2031, ext. 2360
Durham	688-7331, ext. 2360
Chapel Hill	967-9251, ext. 2360

The issuance of the Improvements Permit in no way guarantees the issuance of other permits (e.g. Building Permits).

Septic tank contractors and well contractors are responsible for notifying the Health Department for final inspections.

## II. Sewage Disposal Information

Water supply and sewage disposal facilities, location, installation and protection must meet state and / or local regulations.

The area approved for the installation of the sewage disposal system must be left in an undisturbed state. Disturbance of this area may void permit.

Septic tank and nitrification line must be inspected and approved by a representative of the Orange County Health Department staff before any portion of the installation is covered and / or put into use.

This permit is only valid for structure listed for 5 years following date of issuance.

Septic tank should be pumped out every 3 to 5 years and shall be maintained in such a manner as not to create a public health hazard.

Nitrification line shall be installed with an undisturbed earth dam each 50 feet.

Each septic tank shall be installed with an access riser on the inlet end that extends to grade level.

A Certificate of Completion or issuance of a operations permit shall indicate the septic system has been constructed to the standards set forth in the regulations, but shall in no way be taken as a guarantee that the system will function satisfactorily for any given period of time.

## III. Water Supply Information

Well location, installation, and protection must meet state and local regulations and must be inspected and approved by a representative of the Orange County Health Department before any portion of the installation is put into use.

A well permit must be issued by the Orange County Health Department before construction of a well begins.

The Well Permit is valid for one year following date of issuance.

The siting of the well by the Health Department staff is to provide protection from known possible sources of contamination. No volume of water is guaranteed at any site designated by the Health Department.

The well owner should pour a 4-1/2' x 4-1/2' cement slab surrounding the well casing after the well contractor has completed the grouting of the well. The well casing should be in the center of the slab.

## IV. Minimum Distances\*

### A. Sewage Disposal Systems

1. Private water supplies	100'
2. Public water supply sources tributaries	100'
3. A-II Streams	50'
4. Lakes, ponds, impoundments	50'
5. Building foundations	15'
6. Basements	15'
7. Property lines	10'
8. Embankments or cuts	15'
9. Water lines	10'
10. Swimming pools	25'

### B. Private Wells\*

1. Watertight sewer lines	50'
2. Ground absorption sewage disposal systems	100'
3. Property lines	10'
4. Building foundations	50'

\*Variances can be given on some distances; please call Health Department if you feel a variance is necessary.

\*Add 2.5' for a low pressure pipe system.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION  
P.O. BOX 27037 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

FOR OFFICE USE ONLY  
Quad No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
Lot \_\_\_\_\_ Long. \_\_\_\_\_ Pc \_\_\_\_\_  
Minor Basin \_\_\_\_\_  
Basin Code \_\_\_\_\_  
Mogler Ent. \_\_\_\_\_ GW-1 Ent. \_\_\_\_\_

# WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR McCall Bros  
DRILLER REGISTRATION NUMBER #3

STATE WELL CONSTRUCTION PERMIT NUMBER: \_\_\_\_\_

1. WELL LOCATION: (Check which of the location below)

Nearest Town: Waldwell  
Lot #12 - Steeply Hollow  
(Road, Community, or Subdivision and Lot No.)

County: Orange

2. OWNER Donnie Carter  
ADDRESS \_\_\_\_\_  
(Street or Route No.)

Depth From	To	DRILLING LOG Formation Description
0-40		Overburden
40-130		State

City or Town \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

3. DATE DRILLED 3/19/93 USE OF WELL \_\_\_\_\_

4. TOTAL DEPTH 130 CUTTINGS COLLECTED  Yes  No

5. DOES WELL REPLACE EXISTING WELL?  Yes  No

6. STATIC WATER LEVEL: 20 FT.  above TOP OF CASING,  
TOP OF CASING IS 18" FT.  below ABOVE LAND SURFACE.

7. YIELD (gpm): 15 METHOD OF TEST Dir

8. WATER ZONES (depth): 60'

9. CHLORINATION: Type HTH Amount 2 Cup

10. CASING.

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0	55	ft.	6 1/2	188	Galv.

If additional space is needed use back of form.

11. GROUT

From	To	Depth	Material	Method
0	20	ft.	NEAT	Poured

12. SCREEN:

From	To	Depth	Diameter	Slot Size	Material

13. GRAVEL PACK:

From	To	Depth	Size	Material

14. REMARKS \_\_\_\_\_

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

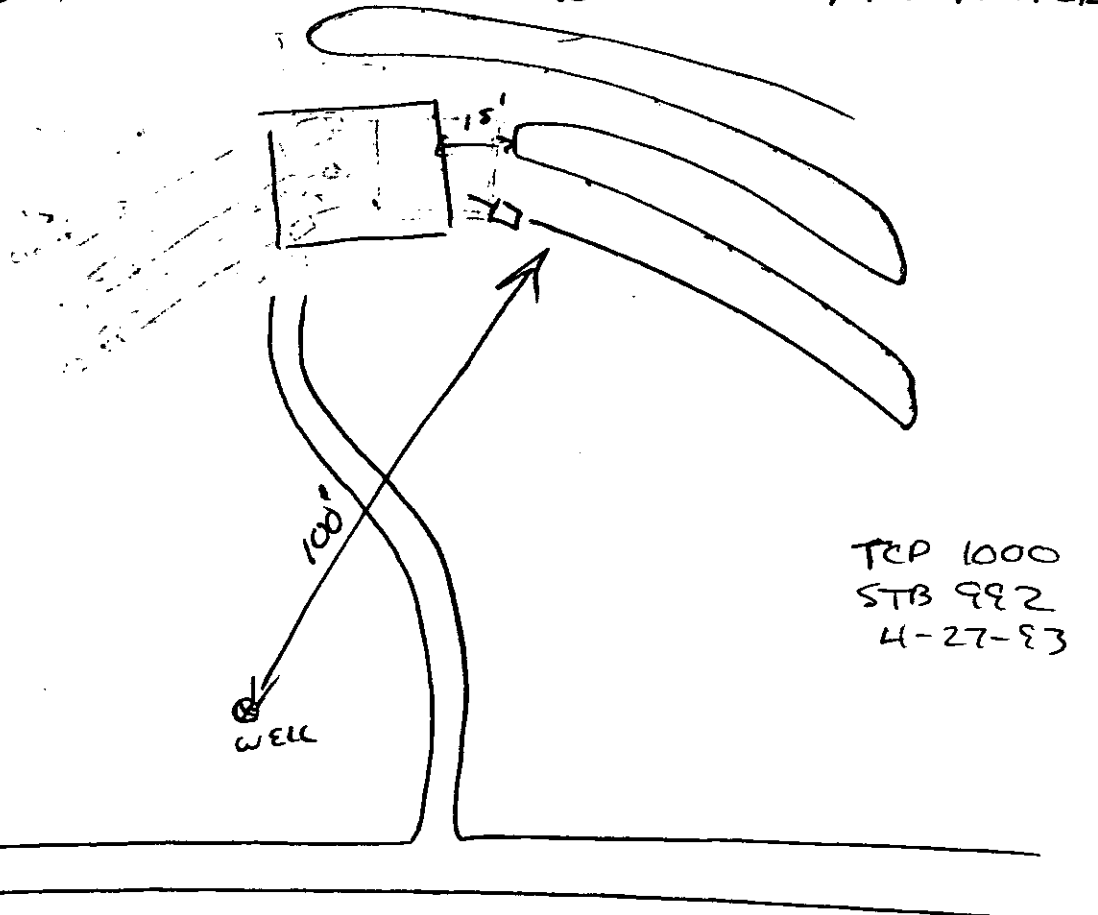
Sam Ben Bridge 5/20/93  
SIGNATURE OF CONTRACTOR OR AGENT DATE

# ORANGE COUNTY HEALTH DEPARTMENT

REFERENCE NUMBER <b>H172201 IMPROVEMENT PERMIT</b>	DATE <b>07.20.92</b>	PIN <b>0900-42-4673</b>	MAP REFERENCE <b>1.3.6M</b>
REQUESTED BY: <b>GATES BONNIE M P O BOX 399 HILLSBOROUGH NC 27278 TELEPHONE: 732-9417</b>	OWNER: <b>GATES BONNIE M &amp; ROGER DALE STEPHENS P O BOX 399 HILLSBOROUGH NC 27278</b>		
SPECIFICATIONS: <b>TO BUILD 3 BR SFD</b>	LOT SIZE / ACREAGE: <b>0.10.01</b>	DESIGNATED WETLAND? YES _____ NO _____	
LOCATION / DIRECTIONS: <b>#12 SLEEPY HOLLOW</b>			
FEE: <b>100</b>	RECEIPT: <b>049570</b>	SIGNATURE OF OWNER OR AUTHORIZED AGENT: <i>Bonnie Gates</i>	
CONFIRMED BY PLANNER: <i>Eddie Kirk</i>	PLANNER <i>Eddie Kirk</i>	DATE	CLERK

#BEDRMS 3      DISPOSAL NO      OTHER NO      TYPE. SYS com  
 SZ. TANK 1000gal      SZ. CHAMB NO      NITRIFI 400Y3x18"      OPER. REQ NO

REMARKS: KEEP SYSTEM SHALLOW 18". KEEP SYSTEM 100' FROM WELL  
15' FROM HOUSE AND 10' FROM ANY PROPERTY LINE.



DATE ISSUED 2-17-93      ENV HEALTH SPEC *Dea Healt*  
 DATE APPROVED 5-13-93      ENV HEALTH SPEC *Dea Healt*

# PERMIT INFORMATION

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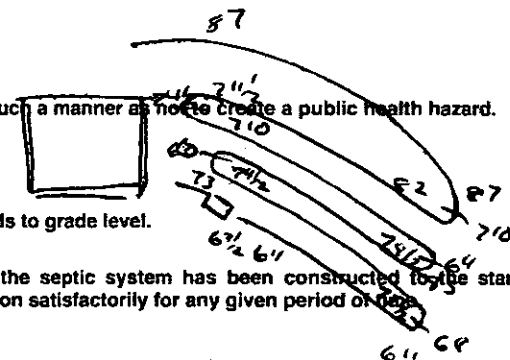
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## IV. Minimum Distances\*

### A. Sewage Disposal Systems

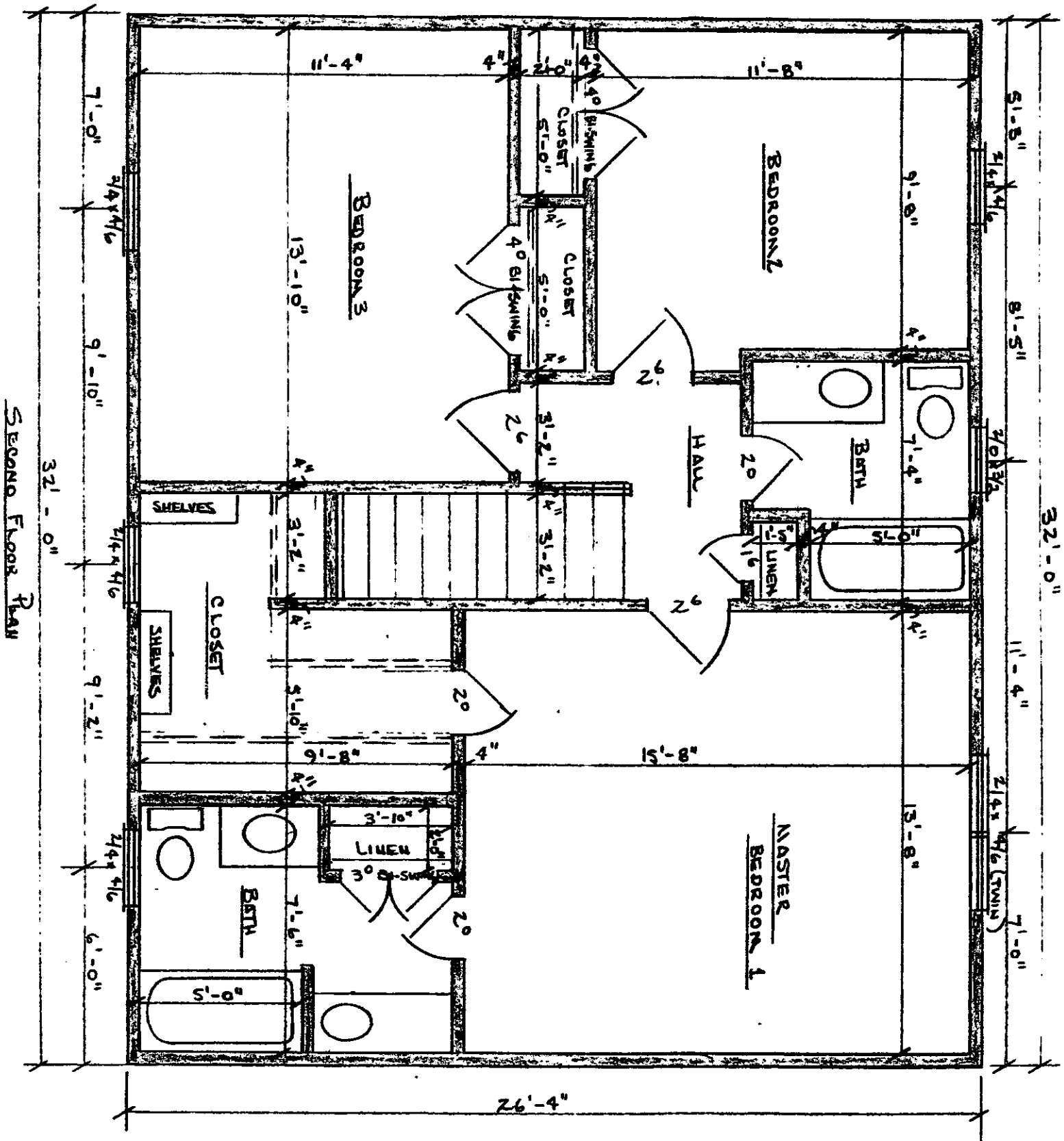
- |  |      |
|--|------|
| 1. Private water supplies                  | 100' |
| 2. Public water supply sources tributaries | 100' |
| 3. A-II Streams                            | 50'  |
| 4. Lakes, ponds, impoundments              | 50'  |
| 5. Building foundations                    | 15'  |
| 6. Basements                               | 15'  |
| 7. Property lines                          | 10'  |
| 8. Embankments or cuts                     | 15'  |
| 9. Water lines                             | 10'  |
| 10. Swimming pools                         | 25'  |

### B. Private Wells\*

- |  |      |
|--|------|
| 1. Watertight sewer lines                    | 50'  |
| 2. Ground absorption sewage disposal systems | 100' |
| 3. Property lines                            | 10'  |
| 4. Building foundations                      | 50'  |

\*Variances can be given on some distances; please call Health Department if you feel a variance is necessary.

\*Add 2.5' for a low pressure pipe system.

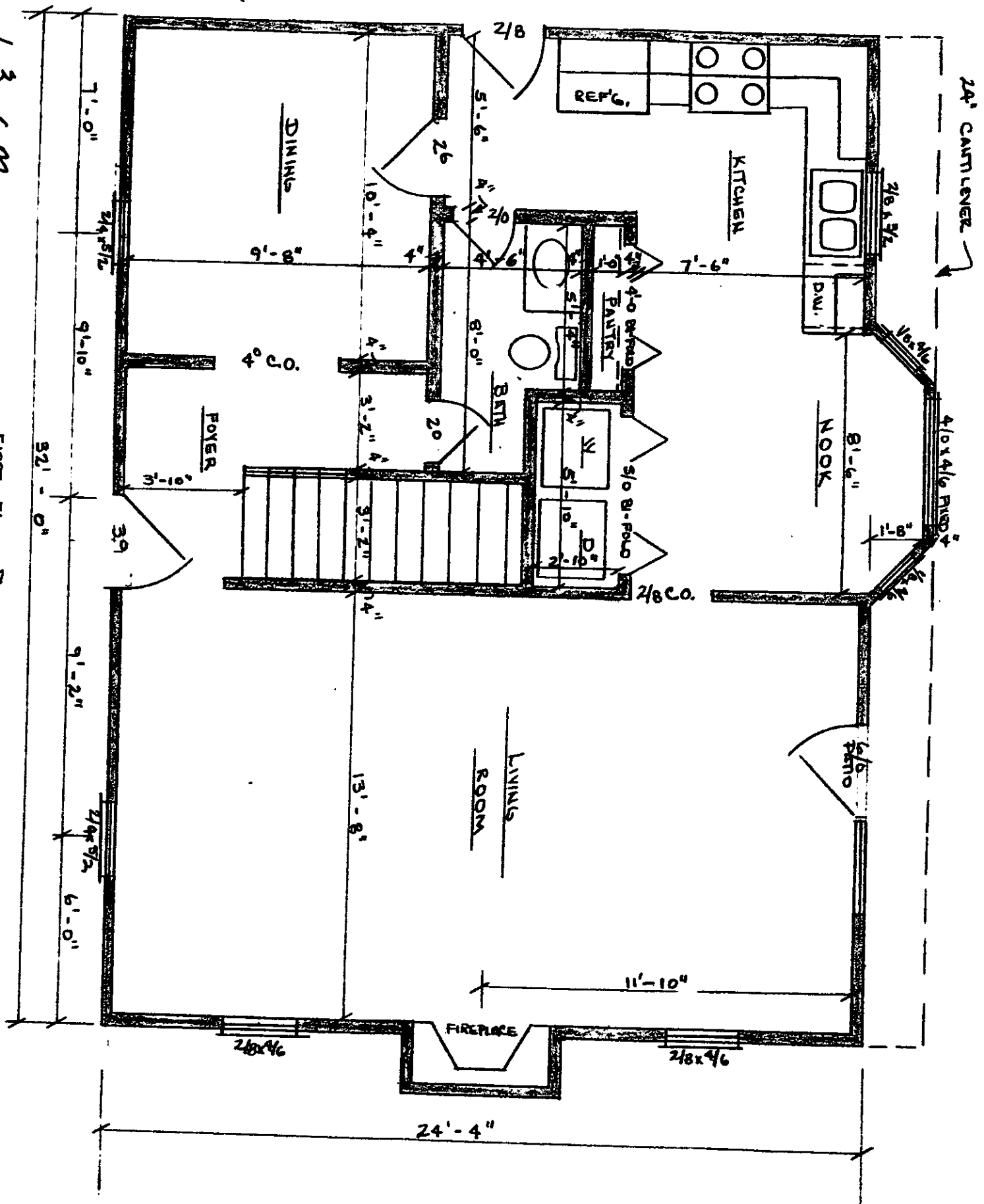


SECOND FLOOR PLAN

1.3.6M

FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"



David -  
Barbara Bates  
knew that this  
way - the made  
Application some  
time ago but  
didn't have plans



# APPLICATION FOR WATER SAMPLES PRIVATE WATER SUPPLIES

PHONE: 919-245-2350  
FAX 919-644-3006

WWW.CO.ORANGE.NC.US

Orange County Health Department  
Environmental Health Division  
P.O. Box 8181, 306-C Revere Road  
Hillsborough, NC 27278



DATE RECEIVED: 2/23/09 WELL PERMIT # H17221W APD# WS09-01057 TMEL 1.3..6M

### APPLICATION

APPLICANT: Eva Welch PROPERTY OWNER: same  
Mailing Address 7431 Deer Crossing Rd Mailing Address same  
Rougemont, NC 27572  
PHONE NUMBER 919-644-0527 PHONE NUMBER same  
PROPERTY ADDRESS same DIRECTIONS / LOCATION from Hillsborough,  
take Hwy 57 N (towards I-501), make a left into Scurry, then a right onto  
Deer Crossing. Second house on right.

### WELL INFORMATION (IF KNOWN):

TYPE OF WELL:  DRILLED (6" DIAMETER)  BORED WELL  HAND DUG WELL  
IS THIS APPLICATION FOR A:  NEW SAMPLE  RE-SAMPLE (WITHIN THE LAST TWO YEARS)  
WHEN WAS THE WELL LAST CHLORINATED? unknown  
DESCRIBE ANY CURRENT PROBLEMS WITH YOUR WATER. none  
WATER TREATMENT:  CHLORINATOR  ULTRA VIOLET (UV) DISINFECTION  PH NEUTRALIZER  
 WATER SOFTENER  SEDIMENT FILTER  IRON REMOVAL  OTHER

### TYPE OF SAMPLE REQUESTED:

PAYMENT MUST BE INCLUDED WITH THIS APPLICATION TO COMPLETE THE SERVICES.

- |   |         |  |          |
|---|---------|--|----------|
| <input checked="" type="checkbox"/> BACTERIOLOGIC SAMPLE  | \$25.00 | <input checked="" type="checkbox"/> NITRATE/NITRITE SAMPLE | \$25.00  |
| <input type="checkbox"/> INORGANIC CHEMICAL SAMPLE<br>(ALKALINITY, ARSENIC, CALCIUM, CHLORIDE, COPPER, FLOURIDE, IRON, HARDNESS, MAGNESIUM, MANGANESE, LEAD, pH, ZINC)  |         |  | \$35.00  |
| <input type="checkbox"/> FULL SAMPLE SUITE (BACTERIA INDICATORS, ARSENIC, BARIUM, CADMIUM, CHROMIUM, COPPER, FLOURIDE, LEAD, IRON, MAGNESIUM, MANGANESE, MERCURY, NITRATES, NITRITES, Ph, SELENIUM, SILVER, SODIUM, ZINC) |         |  | \$100.00 |
| <input type="checkbox"/> VOC (PETROLEUM) SAMPLE   | \$75.00 | <input type="checkbox"/> PESTICIDE SAMPLE                  | \$75.00  |

### OTHER INFORMATION:

WATER SAMPLES MUST BE REQUESTED BY THE OWNER OR TENANT OF THE PROPERTY WITH A SIGNATURE ON THIS FORM AUTHORIZING THE OCHD TO ENTER THE PROPERTY.

THE WELL HEAD AND SAMPLING SPIGOTS MUST BE EXPOSED AND MADE ACCESSIBLE TO THE OCHD.

THE RESULTS OF THE REQUESTED WATER SAMPLES ARE NOT INTENDED FOR USE IN PROPERTY TRANSACTIONS, LOAN APPROVALS, OFFERS TO PURCHASE, OR REAL ESTATE CONTRACTS.

THE WELL SHOULD NOT BE CHLORINATED PRIOR TO SAMPLING UNLESS INSTRUCTED BY THE OCHD.

I HEREBY AUTHORIZE THE OCHD TO ENTER THE PROPERTY AND PERFORM THE SERVICE REQUESTED.

OWNER / TENANT: Eva Welch DATE: 2/19/09

RETURN WITH PAYMENT TO:  
ORANGE COUNTY HEALTH DEPARTMENT, ENVIRONMENTAL HEALTH DIVISION  
P.O. BOX 8181, 306-C REVERE RD., HILLSBOROUGH, NC 27278

	yr	Date	Notes
Chlorine Check			
Samples collected		2-24-09	BLH
Samples collected			
Well Head Protected?			
Results mailed		3-10-09	
		3-18-09	

1992  
D-130  
C 55'  
B 15'  
St. 20  
OCHD 07/08



North Carolina State Laboratory Public Health  
Environmental Sciences  
Microbiology  
Certificate of Analysis

P.O. Box 28047  
306 N. Wilmington St.  
Raleigh, NC 27611-8047  
<http://slph.state.nc.us>  
Phone: 919-733-7834  
Fax: 919-733-8695

Report To:

ORANGE CO ENVIRONMENTAL HEALTH

306 C. REVERE RD.  
HILLSBOROUGH, NC 27278

Name of System:

Eva Welch

7431 Deer Crossing Rd.  
ROUDEMONT, NC 27572

StarLIMS Sample ID: ES022509-0048001



Collected: 02/24/2009 14:50

Received: 02/25/2009 07:45

BL Hawksworth

Dameice Lyons

ES Microbiology ID: 2095

GPS Number:

Sample Source: Well

Sampling Point: Outside hose bib

Well Permit Number:

Sample Description:

Comment:

Environmental Microbiology - Colilert Profile

Method: SM 9223B

Test Name: Colilert

Analyte	Test Result	Analyst	Date
Total Coliform, Colilert	Absent	Joy Hayes	02/26/2009
E. Coli, Colilert	Absent	Joy Hayes	02/26/2009

Report Date: 02/27/2009

Reported By: Susan Beasley

These results are not intended for use in property transactions, loan approvals, offers to purchase, nor real estate contracts.

If you have any questions about these results, you may call Orange County Environmental Health at 245-2360.

## Explanations

### Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. Presence of E. coli (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

### Inorganic Analysis:

Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l

**North Carolina State Laboratory of Public Health  
Department of Health and Human Services  
P. O. Box 28047 – 306 N. Wilmington St. – Raleigh, N. C. 27611-8047**

**INORGANIC CHEMICAL ANALYSIS - NITRATE ONLY**

**Name of System:** Welch, Eva *1.3.6M* **Source of Water:** Well  
**Address:** 7431 Deer Crossing Rd **Source of Sample:**  
 Rougemont, NC **Zip:** 27572 **Type of Sample:** Raw  
**County:** ORANGE **Type of Treatment:**  
**Report To:** Orange Co. Envr. Health **ATTN:** **Type of Analysis:** Nitrate  
 Post Office Box 8181 (919) 732-8181 **Category:**  
 Hillsborough, NC 27278  
**Courier:** 17-50-13  
**Collected By:** BL HAWKSWORTH **Date:** 2/24/2009 **Time:** 2:50:00 PM  
**Location of sampling point:** Outside hose bib  
**Remarks:**

Parameters	Results	Units	Date Analyzed:
Nitrite as N	<0.10	mg/l	2/25/2009
Nitrate as N	1.36	mg/l	2/25/2009

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If you have any questions about these results, you may call Orange County Environmental Health at 245-2360.

**EXPLANATION OF RESULTS:**

Foster/Therapeutic Homes: Nitrate-N level acceptable if less than or equal to 10 mg/l  
 Private Well Guidelines: Nitrite-N level should be < 1.0 mg/l and Nitrate-N < 10.0 mg/l

**Sample Temperature on Receipt:** 8.0 °C **Reported By:** *[Signature]*  
**Date Received:** 2/25/2009 **Report Date:** 3/11/2009  
**Today's Date:** 3/11/2009 **Reference:** 2789 **Login Batch:** 109020072 **Sample Number:** AB85843

## Explanations

### Coliform Analysis:

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Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l

# APPLICATION FOR WATER SAMPLES PRIVATE WATER SUPPLIES

Orange County Health Department  
 Environmental Health Division  
 P.O. Box 8181, 306-C Revere Road  
 Hillsborough, NC 27278



PHONE: 919-245-2360  
 FAX 919-644-3006

WWW.CO.ORANGE.NC.US

AD 0900 42 4673

DATE RECEIVED: 1/2/08 Receipt # 08-000040 APD# WS 08 000023 TMEL 1.3.6M

### APPLICATION

APPLICANT: Eva Welch PROPERTY OWNER: Eva + Brandon Welch  
 ADDRESS 7431 Deer Crossing Rd ADDRESS Same  
Rougemont, NC  
 PHONE NUMBER 919-644-0527 27572 PHONE NUMBER \_\_\_\_\_  
 SUBDIVISION/LOT# "Sleepy Hollow" DIRECTIONS/LOCATION Hwy 57 North; take left on  
Swayer Rd, then right on Deer Crossing.

### WELL INFORMATION (IF KNOWN):

TYPE OF WELL:  DRILLED (6" DIAMETER)  BORED WELL  HAND DUG WELL  
 IS THIS APPLICATION FOR A:  NEW SAMPLE  RE-SAMPLE (WITHIN THE LAST TWO YEARS)  
 WHEN WAS THE WELL LAST CHLORINATED? unknown  
 DESCRIBE ANY CURRENT PROBLEMS WITH YOUR WATER. None.  
 WATER TREATMENT:  CHLORINATOR  ULTRA VIOLET (UV) DISINFECTION  PH NEUTRALIZER  
 WATER SOFTENER  SEDIMENT FILTER  IRON REMOVAL  OTHER

### TYPE OF SAMPLE REQUESTED:

PAYMENT MUST BE INCLUDED WITH THIS APPLICATION TO COMPLETE THE SERVICES.

<input checked="" type="checkbox"/> BACTERIOLOGIC SAMPLE	\$25.00	<input checked="" type="checkbox"/> NITRATE/NITRITE SAMPLE	\$25.00
<input checked="" type="checkbox"/> INORGANIC CHEMICAL SAMPLE (INCLUDES IRON, HARDNESS, pH, FLUORIDE and ARSENIC)			\$35.00
<input type="checkbox"/> VOC (PETROLEUM) SAMPLE	\$75.00	<input checked="" type="checkbox"/> PESTICIDE SAMPLE	\$75.00

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I HEREBY AUTHORIZE THE OCHD TO ENTER THE PROPERTY AND PERFORM THE SERVICE REQUESTED.

OWNER / TENANT: N. Eva Jugensen Welch DATE: 2/1/3/08

RETURN WITH PAYMENT TO: ORANGE COUNTY HEALTH DEPARTMENT, ENVIRONMENTAL HEALTH DIVISION  
 P.O. BOX 8181, 306-C REVERE RD., HILLSBOROUGH, NC 27278

(call if need to get indoor tap sample)

Sampled by: <u>BLA</u>
Date: <u>1-29-08</u>
Protected <input checked="" type="radio"/> Y <input type="radio"/> N

Mailed 2-20-08

1992  
 Dept.  
 130'  
 COS of  
 55'  
 644'  
 15'  
 static  
 20'

15160

North Carolina State Laboratory of Public Health  
Department of Health and Human Services  
P. O. Box 28407 - 306 N. Wilmington St. - Raleigh, N. C. 27611-8047

RECEIVED FEB 4 2008

**COLIFORM ANALYSIS - PRIVATE WATER SUPPLY**

Name of Owner or Tenant: Welch, Eva 1.3..6 County: Orange  
Address: 7431 Deer Crossing Rd. Rougemont, NC ZIP: 27576  
Source: Well Type of Sampling Point: Kitchen tap  
Collected By: BLH Date: 1/29/2008 Time: 1:30 PM  
Signed By: Hawksworth, BL Analysis Type: Private

Report To: Orange Co. Environ. Health  
Post Office Box 8181  
Hillsborough, NC 27278 (919) 732-8181

**BACTERIOLOGIC ANALYSIS**

CONTAMINANTS	RESULT
Total Coliform (ColilertRoutine)	Absent

Sample No: AB06356 Date Received: 1/30/2008 Time Received: 8:15:00 AM

Date Reported: 1/31/2008 Today's Date: 1/31/2008

*J. Beasley*

Comments:

Orange Co. Environ. Health  
ATTN: Hawksworth, BL  
Post Office Box 8181  
Hillsborough, NC 27278

Courier 17-50-13

These results are not to be used in property transactions, approvals, offers to purchase, or real estate contracts.

## Explanations

### Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. Presence of E. coli (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

### Inorganic Analysis:

Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l





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North Carolina State Laboratory of Public Health  
N.C. Department of Health and Human Services  
P.O. Box 28047 - 306 N. Wilmington St. - Raleigh, NC 27611-8047  
(919) 733-7308

Pesticide Analysis Report

Name: Eva Welch  
Address: 7431 Deer Crossing Rd.  
Rougemont Reghemont, N.C. Zip: 27576

Telephone:  
County: Orange

Report To: Orange Co. Health Dept.  
Address: Orange Co. Envr. Health  
Post Office Box 8181  
Hillsborough, NC 27278

Collected By: B. HAWKSWORTH  
Telephone: (919) 732-8181  
Date Collected: 12/9/2008  
Analysis Desired: Pesticides

Courier: 17-50-13

Analysis Method: NC Method 508.  
Liquid-Liquid Extraction, Gas  
Chromatography, Electron Capture  
Detector.  
1998

Analyte	Minimum Detection Limit	Results
Alachlor	<0.0001 mg/l	None Detected mg/l
Bifenthrin	<0.0010 mg/l	None Detected mg/l
Chlordane	<0.0002 mg/l	None Detected mg/l
Chlorpyrifos	<0.0001 mg/l	None Detected mg/l
Cypermethrin	<0.0010 mg/l	None Detected mg/l
Diazinon	<0.0001 mg/l	None Detected mg/l
Dieldrin	<0.0001 mg/l	None Detected mg/l
Endrin	<0.0001 mg/l	None Detected mg/l
Fenvalerate	<0.0010 mg/l	None Detected mg/l
Heptachlor	<0.0001 mg/l	None Detected mg/l
Heptachlor Epoxide	<0.0001 mg/l	None Detected mg/l
Lindane	<0.0002 mg/l	None Detected mg/l
Methoxychlor	<0.0010 mg/l	None Detected mg/l
Permethrin	<0.0010 mg/l	None Detected mg/l
Toxaphene	<0.0020 mg/l	None Detected mg/l

Comments:

Date Received: 1/30/2008 Laboratory No. AA47640  
Date Completed: 2/6/2008 Reference #: 080213  
Date Reported: FEB 08 2008 Login Batch: 08020003

Reported By: *Nancy Jones*  
Nancy Jones, Supervisor  
Environmental Organic Chemistry

**North Carolina State Laboratory of Public Health  
 Department of Health and Human Services  
 P. O. Box 28047 – 306 N. Wilmington St. – Raleigh, N. C. 27611-8047**

**INORGANIC CHEMICAL ANALYSIS - PRIVATE WATER SYSTEM**

**Name of System:** Welch, Eva 1.3..6M

**Source of Water:** Well

**Address:** 7431 Deer Crossing Rd  
 Rougemont, NC

**Zip:** 27576

**Source of Sample:**

**Type of Sample:** Treated

**Type of Treatment:** Ph neutral

**Type of Analysis:** Private

**County:** ORANGE

**Report To:** Orange Co. Env'r. Health  
 Post Office Box 8181  
 Hillsborough, NC 27278  
**Courier:** 17-50-13

**ATTN:**  
 (919) 732-8181

**Collected By:** BL HAWKSWORTH **Date:** 1/29/2008

**Time:** 1:30:00 PM

**Location of sampling point:** Kitchen tap

**Remarks:** water softener, sediment filter, iron removal

Parameters	Results	Units	Date Analyzed:
Alkalinity as CaCO3	190	mg/l	1/30/2008
Arsenic	<0.001	mg/l	1/30/2008
Calcium	1.2	mg/l	1/30/2008
Chloride IC	25	mg/l	1/30/2008
Copper	<0.05	mg/l	1/30/2008
Fluoride	<0.20	mg/l	1/30/2008
Iron	<0.10	mg/l	1/30/2008
Hardness as CaCO3 (Ca,Mg)	4	mg/l	1/30/2008
Magnesium	0.3	mg/l	1/30/2008
Manganese	<0.03	mg/l	1/30/2008
Lead	<0.005	mg/l	1/30/2008
pH	7.8	Std. units	1/30/2008
Zinc	<0.05	mg/l	1/30/2008


These results are not intended for use in property transactions, loan approvals, offers to purchase, or real estate contracts.

If you have any questions about these results, you may call Orange County Environmental Health at 245-2360.

**Date Received:** 1/30/2008

**Report Date:** 2/13/2008

**Reported By:**



**Today's Date:** 2/13/2008

**Ref:** 1429

**Login Batch:** 08010035

**Sample Number:** AB67820

## Explanations

### Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. Presence of E. coli (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

### Inorganic Analysis:

Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l

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**North Carolina State Laboratory of Public Health**  
**Department of Health and Human Services**  
**P. O. Box 28047 – 306 N. Wilmington St. – Raleigh, N. C. 27611-8047**

**INORGANIC CHEMICAL ANALYSIS - PRIVATE WATER SYSTEM**

**Name of System:** Welch, Eva 1.3..6M

**Source of Water:** Well

**Address:** 7431 Deer Crossing Rd  
 Rougemont, NC

**Zip:** 27576

**Source of Sample:**

**Type of Sample:** Raw

**County:** ORANGE

**Type of Treatment:**

**Report To:** Orange Co. Envr. Health  
 Post Office Box 8181  
 Hillsborough, NC 27278  
**Courier:** 17-50-13

**ATTN:**  
 (919) 732-8181

**Type of Analysis:** Private

**Collected By:** BL HAWKSWORTH

**Date:** 1/29/2008

**Time:** 1:40:00 PM

**Location of sampling point:** Outside hose bib

**Remarks:**

Parameters	Results	Units	Date Analyzed:
Alkalinity as CaCO3	62	mg/l	1/30/2008
Arsenic	<0.001	mg/l	1/30/2008
Calcium	24.0	mg/l	1/30/2008
Chloride IC	25	mg/l	1/30/2008
Copper	<0.05	mg/l	1/30/2008
Fluoride	<0.20	mg/l	1/30/2008
Iron	1.90	mg/l	1/30/2008
Hardness as CaCO3 (Ca,Mg)	98	mg/l	1/30/2008
Magnesium	9.3	mg/l	1/30/2008
Manganese	<0.03	mg/l	1/30/2008
Lead	<0.005	mg/l	1/30/2008
pH	7.0	Std. units	1/30/2008
Zinc	<0.05	mg/l	1/30/2008

These results are not intended for use in property transactions, loan approvals, offers to purchase, or real estate contracts.

If you have any questions about these results, you may call Orange County Environmental Health at 245-2360.

**Date Received:** 1/30/2008

**Report Date:** 2/13/2008

**Reported By:** *M King*

**Today's Date:** 2/13/2008

**Ref:** 1426

**Login Batch:** 08010035

**Sample Number:** AB67817

## Explanations

### Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. Presence of E. coli (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

### Inorganic Analysis:

Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l

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North Carolina State Laboratory of Public Health  
Department of Health and Human Services  
P. O. Box 28047 - 306 N. Wilmington St. - Raleigh, N. C. 27611-8047

**INORGANIC CHEMICAL ANALYSIS - NITRATE ONLY**

Name of System: Welch, Eva 1.3..6M

Source of Water: Well

Address: 7431 Deer Crossing Rd  
Rougemont, NC

Zip: 27576

Source of Sample:

County: ORANGE

Type of Sample: Treated

Report To: Orange Co. Envr. Health  
Post Office Box 8181  
Hillsborough, NC 27278  
Courier: 17-50-13

ATTN:  
(919) 732-8181

Type of Treatment: Ph neutralizer

Type of Analysis: Nitrate

Category: Other

Collected By: BL HAWKSWORTH

Date: 1/29/2008

Time: 1:30:00 PM

Location of sampling point: Kitchen tap

Remarks: Water softener, sediment filter, iron removal

Parameters	Results	Units	Date Analyzed:
Nitrite as N	<0.10	mg/l	1/30/2008
Nitrate as N	1.04	mg/l	1/30/2008

These results are not intended for use in property transactions, loan approvals, offers to purchase, nor real estate contracts.

If you have any questions about these results, you may call Orange County Environmental Health at 245-2360.

**EXPLANATION OF RESULTS:**

Foster/Therapeutic Homes: Nitrate-N level acceptable if less than or equal to 10 mg/l  
Private Well Guidelines: Nitrite-N level should be < 1.0 mg/l and Nitrate-N < 10.0 mg/l

Sample Temperature on Receipt: 2.0 °C

Date Received: 1/30/2008

Report Date: 2/13/2008

Reported By: *M King*

Today's Date: 2/13/2008

Reference: 1454

Login Batch 08010035

Sample Number: AB67845

## Explanations

### Coliform Analysis:

If coliform bacteria are Absent, the water is considered safe for drinking purposes. If coliform bacteria are Present, the water is considered unsafe for drinking purposes. Presence of E. coli (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

### Inorganic Analysis:

Recommended limits for drinking water. Sample should not exceed levels listed below.

Alkalinity	No established limits	Iron	0.30 mg/l
Arsenic	0.01 mg/l	Lead	0.015 mg/l
Calcium	No established limits	Magnesium	No established limits
Chloride	250 mg/l	Manganese	0.05 mg/l
Copper	1.3 mg/l	Nitrate	10 mg/l (as N)
Fluoride	4 mg/l	Nitrite	1.0 mg/l (as N)
Hardness	No established limits	pH	Not less than 6.5 units
		Zinc	5.0 mg/l



ORANGE COUNTY HEALTH DEPARTMENT  
INDIVIDUAL WELL INORGANIC CHEMICAL ANALYSIS



The results of the inorganic chemical water sample taken at:

7431 Deer Crossing Rd.

TMBL: 1.3..6M

are attached. The results showed the following parameters with checked boxes were not within acceptable or recommended limits:

- NONE** - No problems were identified in this sample. If you feel there are still problems with your water, please call and we can discuss your concerns further.

THE **IRON** / MANGANESE LEVELS WERE HIGH IN THE:

- TREATED SAMPLE  
 UNTREATED SAMPLE  
 BOTH

These elements will cause red or brown staining of fixtures, clothes and cooking utensils. They can also impart undesirable tastes to the water. They are generally considered to be a nuisance and not a health threat. A specialized water softener or other treatment system can be installed to reduce the effects of these elements - the type of system depends on the levels of the mineral(s).

THE HARDNESS WAS EXCESSIVE IN THE:

- TREATED SAMPLE  
 UNTREATED SAMPLE  
 BOTH

This condition causes whitish or gray residues/deposits on cooking utensils and causes soap and shampoo to not lather very well. It can also cause premature burnout of electric hot-water heater elements. Very hard water is considered to be above 180 mg/L. A water softener or other treatment system can be installed to reduce the effects of this condition.

THE pH LEVEL WAS 6.5 UNITS OR LOWER IN THE:

- TREATED SAMPLE  
 UNTREATED SAMPLE  
 BOTH

A low pH indicates the water is acidic and this condition may cause blue/green staining of the fixtures. It can also impart a bitter taste to the water. In severe cases, it can cause undesired levels of copper and lead in the tap water and lead to erosion of copper pipes. This condition can be remedied with a neutralizing system.

ARSENIC ADVISORY ATTACHED

OTHER CONTAMINANTS - \_\_\_\_\_

OTHER COMMENTS - \_\_\_\_\_

If there are children who live at this address, please let their dentist or pediatrician know the fluoride level as this element directly affects the development of their teeth.

Please call the Environmental Health Services Division at 919-245-2360 if you have questions concerning these results.