

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #:

PIN #:

OP DATE:

SYSTEM USE:

- ☒ House
☐ Mobile Home
☐ Business
☐ Other

SEWAGE TYPE:

- ☒ Domestic
☐ Industrial

PUMP/SIPHON?:

- ☒ Yes
☐ No

PRESSURE MANIFOLD:

- ☒ Yes
☐ No

SYSTEM TYPE:

- ☐ I
☐ II
☒ III
☐ IV
☐ V
☐ VI
☐ Other

SUB TYPE:

- ☐ A
☒ B
☐ C
☐ D
☐ E
☐ F
☒ G

NBR BEDROOMS:

- ☐ 1
☐ 2
☐ 3
☒ 4
☐ 5
☐ 6
☐ Other

MAINT. SCHEDULE:

- ☐ Yes
☒ No

CERT. OPERATOR

- ☐ Yes
☒ No

GT ST PT

- | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|------------------|
| ☐ | ☐ | | 750 |
| ☐ | ☐ | ☐ | 900 |
| ☐ | ☐ | ☐ | 1,000 |
| ☐ | ☒ | ☒ | 1,200 |
| ☐ | ☐ | ☐ | 1,500 |
| ☐ | ☐ | ☐ | 1,800 |
| ☐ | ☐ | ☐ | 2,100 |
| ☐ | ☐ | ☐ | 2,500 |
| ☐ | ☐ | ☐ | 3,000 |
| ☐ | ☐ | ☐ | 4,000 |
| ☐ | ☐ | ☐ | 5,000 |
| ☐ | ☐ | ☐ | 8,000 |
| ☐ | ☐ | ☐ | 10,000 |
| ☐ | ☐ | ☐ | Other |
| ☒ | | ☐ | None/NA GT or PT |

DRAINFIELD SIZE(SQ. FT.)

DRAIN TYPE:

- ☐ Stone
☒ EZ Flow
☐ Infiltrator
☐ Biodiffuser
☐ Cultec
☐ Drip
☐ Hancor
☐ Large Dia. Pipe
☐ Multi-Pipe
☐ Other

MAX DEPTH (IN.):

- ☐ 12 in. or less
☒ 18 in. or less
☐ 24 in. or less
☐ 26 in. or less
☐ 28 in. or less
☐ 30 in. or less
☐ 32 in. or less
☐ 36 in. or less
☐ Other

STONE DEPTH (IN.):

- ☐ 8 in. or less
☒ 12 in. or less
☐ 18 in. or less
☐ 24 in. or less
☒ Other

TRENCHES:

- ☒ Individual
☐ Bed

TRENCH WIDTH (IN.):

- ☐ 12 in. or less
☐ 18 in.
☐ 24 in.
☒ 36 in.
☐ 6 ft. or less
☐ 9 ft. or less
☐ Other

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED

PERMIT#: **D038207** STATUS: **A** APP. DATE: **10/05/2006** BLDG. PERMIT#: _____
PIN: **0668.03-01-2611 000 21 3594** TAX MAP: _____ RECORDED: **Y** ORIG. PERMIT#: _____
TOWNSHIP: **06 HOLLY SPRINGS** JURISDICTION: **FUQ** ZONING: **R-20**
APPLICANT: **CURRIN, GERALD W**
P O BOX 981
FUQUAY VARINA, NC 27526
(919) 427 - 0641
USE: **HD USE: 101 ONE-FAMILY HOUSE**
EXIST USE: _____
DISPOSAL: **BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0**
SITE: **ADDRESS: 2205 BELVINWOOD DR**
SUBDIVISION: **MILL RIDGE LOT: 111** ACRES: **1.12**
DIRECTION: **NC 55 & JAMES SLAUGHTER GO NORTH L ON STEWART S**
T INTO MILLRIDGE S/D

Well System: **WATER: PUBLIC** - TYPE: _____

WELL LOG INFORMATION: DEPTH: _____ CASING DEPTH: _____ YIELD: _____ STATIC LEVEL: _____
WELL CONTRACTOR: _____ REG.# _____ PUMP CONTRACTOR: _____ REG.# _____
Construction Compliance: **GROUT APPROVED** ☐ DATE _____ EHS _____
WELLHEAD APPROVED ☐ DATE _____ EHS _____
SYSTEM FINALIZED ☐ DATE _____ EHS _____

COMMENTS: _____

DESIGN FLOW: **47.01** gal./min. ACTUAL FLOW: **45 gal/min** **Operation Permit** INNOVATIVE LETTER: **Y**

INSTALLED BY: **[Signature]** INSTALLATION APPROVED BY: **[Signature]**
PROPRIETARY SYSTEM: _____ FILTER NO: _____
COMMENTS: _____

OPERATIONS PERMIT ISSUED? **Y** OP DATE: **7/12/07** BY: **[Signature]**

This permit is based in part on information provided by the homeowner or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The Environmental Health Specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

As Built Information:

Date: **7/11** Benchmark: **ST** Rod reading: **3.03/4** Distance to Structure: **12'**
ST: **1200** gals ID#: **106** D.O.M.: **4-29** Elev.: **3.03/4** Distance to Well: _____
PT: **1206** gals ID#: **213** D.O.M.: **4-11** Elev.: **3.5**
D-box/FI/PM Elev.: **4.03/4** Supply Line: **8** ft. Pump/Control Panel: _____
Line 1: **6.13/4** Date: _____ Line 6: **9.4/4** Date: _____
Line 2: **6.93/4** Date: _____ Line 7: **10.1/4** Date: _____
Line 3: **7.63/4** Date: _____ Line 8: _____ Date: _____
Line 4: **8.03/4** Date: _____ Line 9: _____ Date: _____
Line 5: _____ Date: _____ Line 10: _____ Date: _____
Distance to P/L: _____ Notes: _____

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PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED

PERMIT#: D038207 STATUS: A APP. DATE: 10/05/2006 BLDG. PERMIT#:
PIN: 0668.03 01 2611 000 TAX MAP: RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 06 HOLLY SPRINGS JURISDICTION: FUQ ZONING: R-20
APPLICANT: CURRIN, GERALD W
P O BOX 981
FUQUAY VARINA, NC 27526
(919) 427 - 0641
USE: HD USE: 101 ONE-FAMILY HOUSE
EXIST USE:
DISPOSAL: BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUND DRAIN: N
SITE: ADDRESS: 2205 BELVINWOOD DR
SUBDIVISION: MILL RIDGE LOT: 111 ACRES: 1.12
DIRECTION: NC 55 & JAMES SLAUGHTER GO NORTH L ON STEWART S
T INTO MILLRIDGE S/D

IMPROVEMENT PERMIT

TANK SIZE: 1200 gal. PUMP Tank: 1200 gal. SQ FT: 1320 INNOVATIVE MAX DEPTH LINE: 18 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III G PUMP: Y P/M: Y
DAILY FLOW: 480 gal/day DESIGN FEE REQ?: Y PAID?: Y WATER: PUBLIC

COMMENTS:

IP ISSUED? Y DATE: 10/19/2006 BY: (KKJ) *Kyle Jennings* PHONE#: 868-4988

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION

VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

AUTHORIZATION CONDITIONS:

Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and an Operation Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation is in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrification line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. **OTHER CONDITIONS:**

REFER TO AND ADHERE TO ATTACHED APPROVED PLANS AND SPECIFICATIONS. THE SYSTEM IS DESIGNED AS A PUMP TO PRESSURE MANIFOLD WITH EZ FLOW INSTALLATION (AND REPAIR). PUMP CONTROL PANEL ENCLOSURE IS TO BE NEMA 4X WITH SEPERATE CIRCUITS FOR PUMP AND ALARM, CYCLE COUNTER AND ELAPSED TIME METER. DISPOSAL LINES ARE TO BE ESTABLISHED AND INSTALLED ON CONTOUR AS INDICATED IN ATTACHED PLANS. ALL SYSTEM COMPONENTS ARE TO BE PROTECTED FROM RUNOFF. THE INITIAL INSTALLATION AND REPAIR AREAS ARE TO BE "FENCED" AND PROTECTED FROM DAMAGE/UNAUTHORIZED TRAFFIC. NO CUTS ARE TO BE MADE WITHIN 15 FEET OF DISPOSAL SYSTEM COMPONENTS. ANY SMEARING OF TRENCH SIDEWALLS IS TO BE ELIMINATED BY SCARIFICATION. ALL REGULATORY SETBACKS ARE TO BE ADHERED TO.

TANK SIZE: 1200 gal. PUMP TANK: 1200 gal. SQ FT: 1320 INNOVATIVE MAX DEPTH LINE: 18 in.
MAINT: N OPER: N L/O: P TRENCH#: 6 LENGTH: 440 ft. WIDTH: 36 in. DESIGNER: JASON HALL
SUBFIELDS: 1 DESIGN HEAD PRESSURE: 2 DESIGN FLOW: 47.01 gal/min DOSE VOLUME: 243 gal.

CA ISSUED? Y DATE: 02/06/2007 BY: (WEL) *Carroll Lynn* PHONE#: 856-7461

Mill Ridge Subdivision, Lot 111
4-Bedroom Septic System Layout

HS
Brett

General:

Refer & Adhere to attached November 2006

CA Site Plan - Part C, Plans & Specs.

Fence and protect system installation & repair areas.

*No Foundation Drains
on house.

Maintain all regulatory setbacks &
protect system components from runoff.

1200 gal. septic tank
1200 pump tank
Keep tanks and drain lines
at least 10' from all property lines.
Keep Manifold and supply line
at least 5 feet from property lines.

**BELVINWOOD
DRIVE**

Initial System:

Designed as a pump to
pressure manifold
with Innov./Acc. status
drainfield.

Establish & install
lines on contour
as field flagged
& shown in plans.

Max. trench depth
18"

112

111

51

52

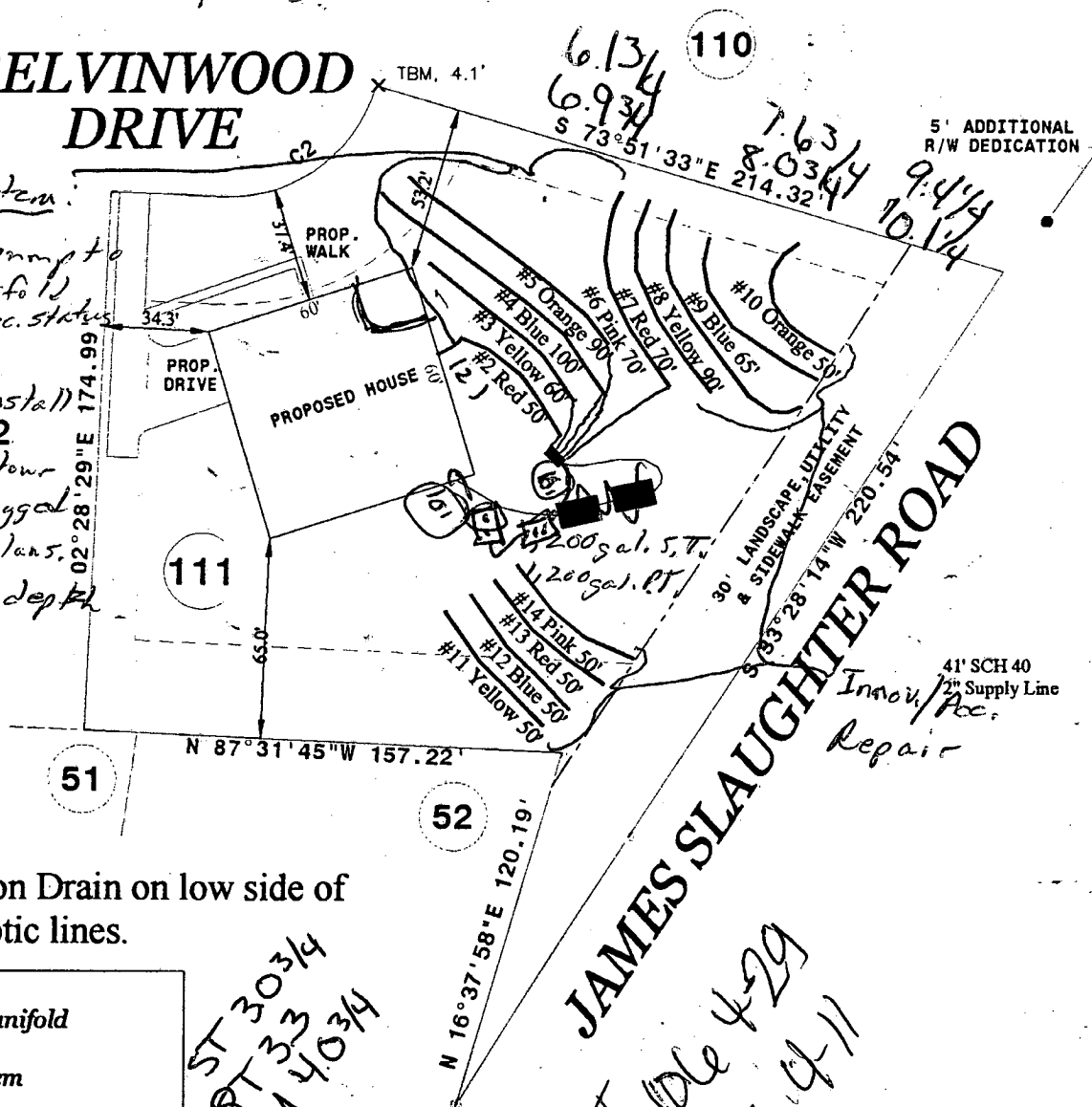
*No Foundation Drain on low side of
house near septic lines.

System: Pressure Manifold
Lines: 2-7, (440')
Accepted Status System
0.3 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 8-14 (405')
Accepted Status System
18" Trench Bottom
0.3 Soil LTAR

GRAPHIC SCALE
1" = 60'



Central Carolina
Soil Consulting
919-784-9449
Project # 116



Central Carolina Soil Consulting PRESSURE MANIFOLD DESIGN

Name: Gerald Currin Builder

P.I.N. #:

D#:

Address:

Subdiv: Mill Ridge, Phase 4

Lot#: 111

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.30 gal/day/sq.ft

Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 1320 Stone Depth:

Number of Taps: 6 Length of Trenches: 440 ft(See Tap Chart for Details)

Depth of Trenches: 18 in Manifold Length: 54 in

Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing side(s) of manifold

Supply Line: length: 41 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 5.32 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 8.90 ft

Total Head: 16.22 ft Pump to Deliver: 47.01 gals/min at 16.22 ft head

Storing Volume: 243 gals,

Drawdown: 243 gals divided by 21 gals/in = 11.6 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter, or equal is required.

Possible pumps: Hydromatic:

Goulds:

Myers: ME-50

Zoeller:

Other:

TAP CHART

Bench Mark	4.1	is = 100.00	set at				Design Head:	2	
Pump tank elev.		5.5	98.60	Pump elev.	93.60		Manifold elev.	102.50	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
2	Red	2.6	101.50	50	1/2in SCH 80	5.48	55.95	150	0.373
3	Yellow	3.4	100.70	60	1/2in SCH 40	7.11	72.60	180	0.403
4	Blue	3.9	100.20	100	3/4in SCH 80	10.1	103.13	300	0.344
5	Orange	4.5	99.60	90	3/4in SCH 80	10.1	103.13	270	0.382
6	Pink	5.9	98.20	70	1/2in SCH 40	7.11	72.60	210	0.346
7	Red	6.5	97.60	70	1/2in SCH 40	7.11	72.60	210	0.346

of Dose Vol.	85	total	feet =	440	gal/min =	47.01	LTAR =	0.30
Dose Volume	243			Des. Flow	480		(ltar + 5%)	0.32
Dose Pump Time	5.17			Pump Run=	10.21		(ltar W/ INOV)	0.40
Drawdown in Inches	11.6			Tank Gal/IN	21		(ltar + 5%)	0.42
Supply Line Length	41			Elev. Head	8.90			

Comments:

CENTRAL CAROLINA SOIL CONSULTING PRESSURE MANIFOLD DESIGN - REPAIR SYSTEM

Name: Gerald Currin Builder P.I.N. #: 0 D#: 0
 Address: 0 Subdiv: Mill Ridge, Phase 4 Lot#: 111
 # of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.30 gal/day/sq.ft
 Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 1215 Stone Depth:
 Number of Taps: 7 Length of Trenches: 405 ft(See Tap Chart for Details)
 Depth of Trenches: 24 1/8 in Manifold Length: 60 in
 Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifold
 Supply Line: length: 105 ft Diameter: 2 in sch 40pvc
 Friction Loss + Fitting Loss: 7.61 ft(supply line length + 70' for fittings in pump tank)
 Design Head: 2 ft Elevation Head: 4.20 ft
 Total Head: 13.81 ft Pump to Deliver: 44.61 gals/min at 13.81 ft head
 Dosing Volume: 211 gals,
 Drawdown: 211 gals divided by 21 gals/in = 10.0 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter, or equal is required.

Possible pumps: Hydromatic: Goulds: Myers: ME-50
 Zoeller: Other:

TAP CHART

Bench Mark	4.1	is = 100.00	set at				Design Head:	2		
Pump tank elev.	5.5		98.60	Pump elev.	93.60		Manifold elev.	97.80		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
8	Yellow	7.3	96.80	90	3/4in SCH 80	10.1	108.68	270	0.403	
9	Blue	8.1	96.00	65	1/2in SCH 40	7.11	76.50	195	0.392	
10	Orange	8.6	95.50	50	1/2in SCH 80	5.48	58.96	150	0.393	
11	Pink	0.3	103.80	50	1/2in SCH 80	5.48	58.96	150	0.393	
12	Blue	0.4	103.70	50	1/2in SCH 80	5.48	58.96	150	0.393	
13	Red	0.9	103.20	50	1/2in SCH 80	5.48	58.96	150	0.393	
14	Pink	1.4	102.70	50	1/2in SCH 80	5.48	58.96	150	0.393	

% of Dose Vol.	total	feet =	405	gal/min =	44.61	LTAR =	0.30
Dose Volume	80		Des. Flow	480		(ltar + 5%)	0.32
Dose Pump Time	211		Pump Run=	10.76		(ltar W/ INOV)	0.40
Drawdown in Inches	4.72		Tank Gal/IN	21		(ltar + 5%)	0.42
Supply Line Length	10.0		Elev. Head	4.20			
Comments:	105						