

13912 GIRL SCOUT RD

19936117

1/9/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

EHS J Mikeal Reviewer

5870 3 County Permit Review Worksheet

Rule or Law	Permit Application	1	2	3	4	5	6	7	8	9	10
.1937(d)	Is the Application complete	✓									
.1937(d)	Is there a Site plan/Plat with application	✓									
.1937(d)	Is the Facilityshown?	✓									
.1937(d)	Are appurtenances shown	✓									
	Site Evaluation Information										
.1939 (a)(1)	Topography and Landscape Position Recorded?	✓									
.1940 (a-g)	Slope % Recorded?	✓									
.1939 (a)(2)	Texture Class Recorded?	✓									
.1939 (a)(2)	Structure type Recorded?	✓									
.1939 (a)(2)	Consistence Recorded?	✓									
.1939 (a)(2)	Mineralogy Recorded?	✓									
.1939 (a)(3)	Soil Wetness Condition Recorded?	✓									
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered?	✓									
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	✓									
.1939 (a)(6)	Sufficient Available Space Recorded?	✓									
.1937(m)	Are the Profile Locations Shown?	✓									
.1939(a) & .1945(b)	Are the S/PS Profiles in system & in repair area?	✓									
	Number of auger borings made:	✓									
	Were sufficient auger borings made?	✓									
.1939(d), .1955, .1956, .1957	LTAR	.3									
	IP/CA										
G.S. 130A-336(a) & .1937(g)	Proposed System Type stated-Initial	✓									
.1945(b)	Proposed System Type stated-Repair	✓									
G.S. 130A-336(a)(3)	System location identifiable by setbacks - Initial	✓									
.1937(g) & .1945(b)	System components shown - Initial	✓									
.1945(b)	Repair area shown	✓									
.1937 (f)(g)	Does System design match facility, flow & WW characteristics?	✓									
.1937 (f)(g)	**Is System design consistent with soil/site conditions?**	✓									
.1937 (f)(g)	Is the System located in the approved area?	✓									
G.S. 130A-336(a)	Is the Design flow (gpd) indicated?	✓									
G.S. 130A-336(a)	**Number of Bedrooms, employees, seats, etc. indicated?**	✓									
.1937(g)	Trench depth indicated?	✓									
.1937(g)	Trench width indicated?	✓									
.1937(g)	Trench length indicated?	✓									
G.S. 130A-336(a)(1)	Proposed/existing well shown?	✓									
G.S. 130A-336(a)(1)	Property line lengths shown?	✓									
G.S. 130A-336(a)	**Facility/appurtenance setbacks shown from fixed points?**	✓									
	OP										
.1937(i)	System type as described in table V(a) of rule .1961										
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.										

If system design is incorrect or inconsistent with site conditions, indicate why for each below

199-361-17

13912 GIRL SCOUT RD.

S&ME

GWS Septic System Design Review

GWS File #: 5870B Approved Disapproved

Design Review: 3-15-07 TCP ☒ ☐

Field Review: 3-14-07 JAM ☒ ☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

March 12, 2007

Mr. James Martin
The Sanctuary at Lake Wylie
11104 Limehurst Place
Charlotte, North Carolina 28278

Reference: **Revision of Septic Improvement Permit for Lot 160 at the Sanctuary at Lake Wylie**
Mecklenburg County Health Department (MCHD) File #5870B

Dear Mr. Martin,

Attached is the request for the revision to the Improvement Permit for the above referenced lot. The lot was originally permitted for a 5 bedroom house and you are now requesting an Improvement Permit for a 12 bedroom house. We are proposing a LPPPBPS system with 800 feet of line. We are proposing the system be split into 2 subfields of 400 feet each. A Zoeller automatic multizone valve is shown to dose the 2 subfields. Dual pumps and a duplex control panel could also be used. PREFERRED SYSTEM DISTRIBUTION METHOD.

Mr. Bill Marlin has evaluated the soils (see attached MCHD soil sheets) and S&ME, Inc. has flagged the system and repair on the lot. The septic lines have been located by the surveyor and are shown on the attached maps provided by YW&H. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot at The Sanctuary.

A building permit cannot be issued until the MCHD office issues an Authorization to Construct (ATC). The buyer will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on the lot prior to obtaining the ATC from the MCHD.**

Tri-County Wastewater (TCWW) is under contract to supply maintenance services for each septic system installed at The Sanctuary. TCWW will have a list of preferred septic contractors for the subdivision and will also have requirements for septic system installation that are greater than the MCHD and State requirements. It will be the responsibility of TCWW to enforce any requirements above State requirements or the MCHD conditions on the Improvement Permit.

Please review the attached system sketch and design specifications for the Improvement Permit. If necessary, the MCHD may add comments to the site plan or specifications. Because of the size of the proposed system, we recommend that the Improvement Permit require a pre-installation meeting with the builder, MCHD, S&ME, and TCWW to

review the system specifications and installation requirements. Please call in you have and questions or comments.

Sincerely,

S&ME, Inc.

Paul G. Penninger, LSS
Licensed Soil Scientist

Rob Willcox, LSS
Natural Resources Department Manager

Attachments:
1. System Specifications
2. Site Plan
3. MCHD Soil Evaluation
4. T&J Panel and Dosing Information

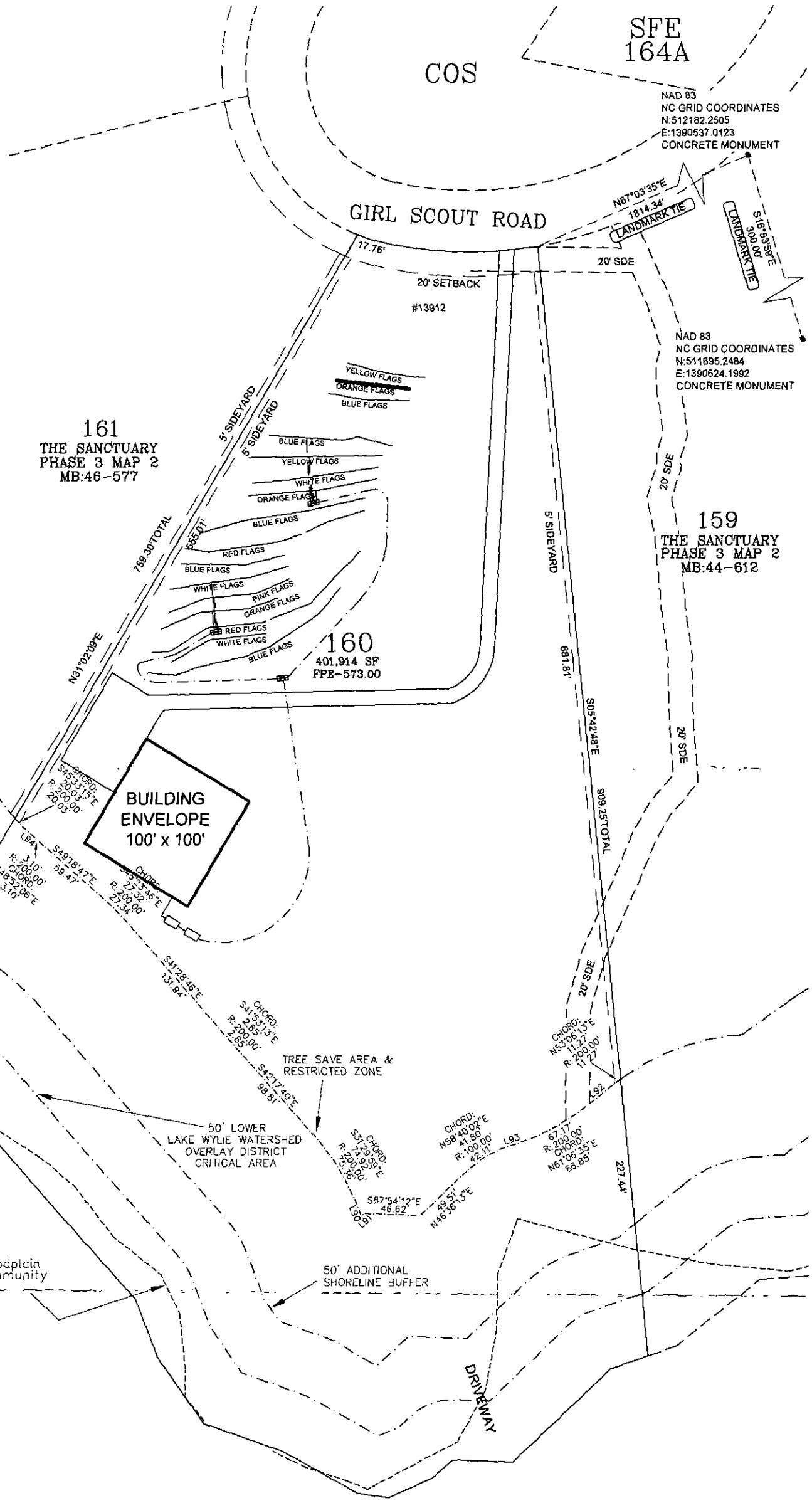
Copy: Mr. Jeremy Michael, R.S.
MCHD

V FCT
3-15-07

Design Specifications for Lot 160 at The Sanctuary
MCHD File # 5870B

Daily Design Flow:	1440 gpd
Number Bedrooms:	12 bdr.
Basement or Crawlspace:	Basement
Septic Tank Size:	2185 gal
Pump Tank Size:	2185 gal
Primary System Loading Rate:	0.3 gpd/ft^2
Primary System:	LP PPBPS
Number and length of laterals:	8 @ 100 ft. centerfed
Total ft. of primary system:	800 ft.
Number of T&J Panels:	22 per 100 ft. line for a total of 176 panels (use 2 fields with 88 panels per field)
Flow Rate through system:	44 gpm – use 5/32 in. holes with 3 ft. head pressure
Pump Requirements:	to be calculated by installer when specific house and pump tank locations are available
Dosing Volume:	approx. 316 gal. – (3.6 gal per panel)*
Depth of effluent pumped per dose:	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check Valve:	yes
Siphon break hole:	yes
Repair System Loading Rate:	0.3 gpd/ft^2
Repair System:	LP PPBPS
Total ft. of repair	870 ft. (800 required)

Notes: Before placement of cap block, one panel on each line, near the center of the field should be observed filling to male certain that it does not overflow the top chamber into the air chambers. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.



GRAPHIC SCALE

100 50 0 100

SCALE: 1" = 100'

S&ME

3718 OLD BATTLEGROUND ROAD
GREENSBORO, NC. 27410
PH. 336-288-7180
FAX. 336-288-8980
WWW.SMEINC.COM

LOT 160

THE SANCTUARY

MECKLENBURG COUNTY, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: RDM	CHECKED BY: JP
JOB NO. 1588-05-067	DATE: MARCH 2007	FIGURE NO. 1

GRAPHIC SCALE

50 25 0 50

SCALE: 1" = 50'

161
THE SANCTUARY
PHASE 3 MAP 2
MB:46-577

17.76'

20' SETBACK

#13912

5' SIDEYARD

5' SIDEYARD

759.30'TOTAL

555.01'

N31°02'09"E

60' REPAIR
YELLOW FLAGS
ORANGE FLAGS
60' REPAIR
BLUE FLAGS
60' REPAIR

100' BLUE FLAGS
100' YELLOW FLAGS
100' WHITE FLAGS
100' ORANGE FLAGS
VB
140' REPAIR BLUE FLAGS
50' REPAIR
75' REPAIR RED FLAGS
85' REPAIR BLUE FLAGS
100' WHITE FLAGS
100' PINK FLAGS
100' ORANGE FLAGS
80' REPAIR
RED FLAGS
100' 80' REPAIR WHITE FLAGS
180' REPAIR BLUE FLAGS

Fill Gully

160
401,914 SF
FPE-573.00

DRIVEWAY

DRIVEWAY CROSSING
SHALL BE 30" DEEP OR
SLEEVED DUCTILE IRON

ZOELLER AUTOMATIC
MULTIZONE VALVE

BUILDING
ENVELOPE
100' x 100'

CHORD:
S45°33'15"E
20.03'
R: 200.00'
20.03'

L94

S49°18'47"E
69.47'

3.10'
200.00'
CHORD:
S45°23'46"E
27.32'
R: 200.00'
27.34'

ST

PT

S41°28'46"E
131.94'

CHORD:
S41°53'13"E
2.85'
R: 200.00'
2.85'

681.81'

S05°42'40"E

20' SDE

CHORD:
N53°06'13"E
11.27'
R: 200.00'
11.27'

TREE SAVE AREA &
RESTRICTED ZONE

S&ME
3718 OLD BATTLEGROUND ROAD
GREENSBORO, NC. 27410
PH. 336-288-7180
FAX. 336-288-8980
WWW.SMEINC.COM

LOT 160
THE SANCTUARY
MECKLENBURG COUNTY, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: RDM	CHECKED BY: JP
JOB NO. 1588-05-067	DATE: MARCH 2007	FIGURE NO. 2

:nvironment, Health, and Natural Resources
.ivironmental Health
astewater Section

Sheet: 1 of 2
Property ID # PO 199-371-03
Lot #: 160
File #: 5870B
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Sanctuary at Lake Wylie
Address: PO Box 1003, Charlotte, N. C. 28201
Proposed Facility: Residence Design Flow (.1949):
Location of Site: Girl Scout Road

Applicant: Toney Jacobs
Date Evaluated: 5/16/2005
Property Size: Approx. .5a inv.
Property Recorded:

Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

Pit #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-12	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV .325GPD/FT^2
		12-24	SBK/C	FI/SEXP/S/P					
		24-48	SBK/CL	FR/SEXP/SS/SP					
2	"	0-8	GR/SCL	"	"	"	"	"	"
		8-24	SBK/C	FI/SEXP/S/P					
		24-48	SBK/CL	FR/SEXP/SS/SP					
3	"	0-8	GR/SCL	"	"	"	"	"	PS, IV .3GPD/FT^2
		8-34	SBK/C	FI/SEXP/S/P					
		34-48	SBK/CL	FR/SEXP/SS/SP					
4	"	0-10	GR/CL	"	"	"	"	"	PS, III .35GPD/FT
		10-48	SBK/CL	"					

Description	Initial System	Repair System
ailable Space (.1945)	PS	PS
stem Type(s)		
e LTAR	.325GPD/FT^2	.325GPD/FT^2

Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 5/17/2005
Others Present:

COMMENTS:
100% repair

Sheet: 2 of 2
FILE #: 5870B

Landscape Position	Group	Texture	.1955 LTAR
R-Ridge	I	S-Sand	1.2 - 0.8
SS-Shoulder Slope		LS-Loamy Sand	
LS-Linear Slope			
FS-Food Slope	II	SL-Sandy Loam	0.8 - 0.6
NS-Nose Slope		L-Loam	
HS-Head Slope			
CC-Concave Slope	III	SI-Silt	0.6 - 0.3
CV-Convex Slope		SICL-Silty Clay Loam	
T-Terrace		CL-Clay Loam	
FP-Flood Plain		SCL-Sandy Clay Loam	
	IV	SC-Sandy Clay	0.4 - 0.1
		SIC-Silty Clay	
		C-Clay	

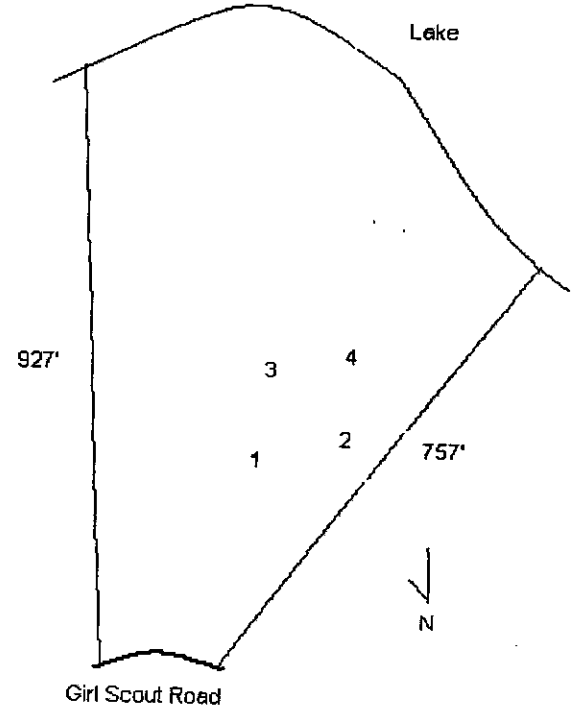
Structure
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet
NS-Non-Sticky
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

Sketch of Soil Evaluation Locations



"Quality Pumps Since 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER® PUMP CO.

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

SECTION: 3.20.175
FM1732
0606
Supersedes
1204

visit our web site:
www.zoeller.com

ZOELLER ON-SITE WASTEWATER PRODUCTS

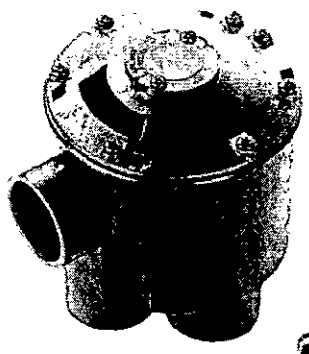
ZOELLER SEPTIC SYSTEM ACCESSORIES

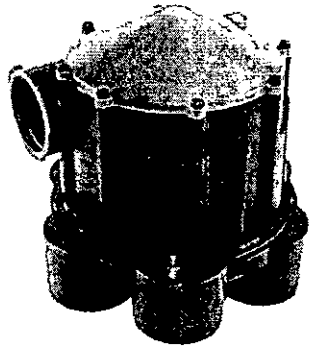
Automatic Multizone Valves

The Zoeller 4000 Series distribution valve offers an easy, reliable and economical way to automate multiple zoned residential and small commercial disposal fields. The simplicity of design ensures ease of maintenance and long service life. These patented valves are ideally suited for pump fed applications using reclaimed or dirty water.

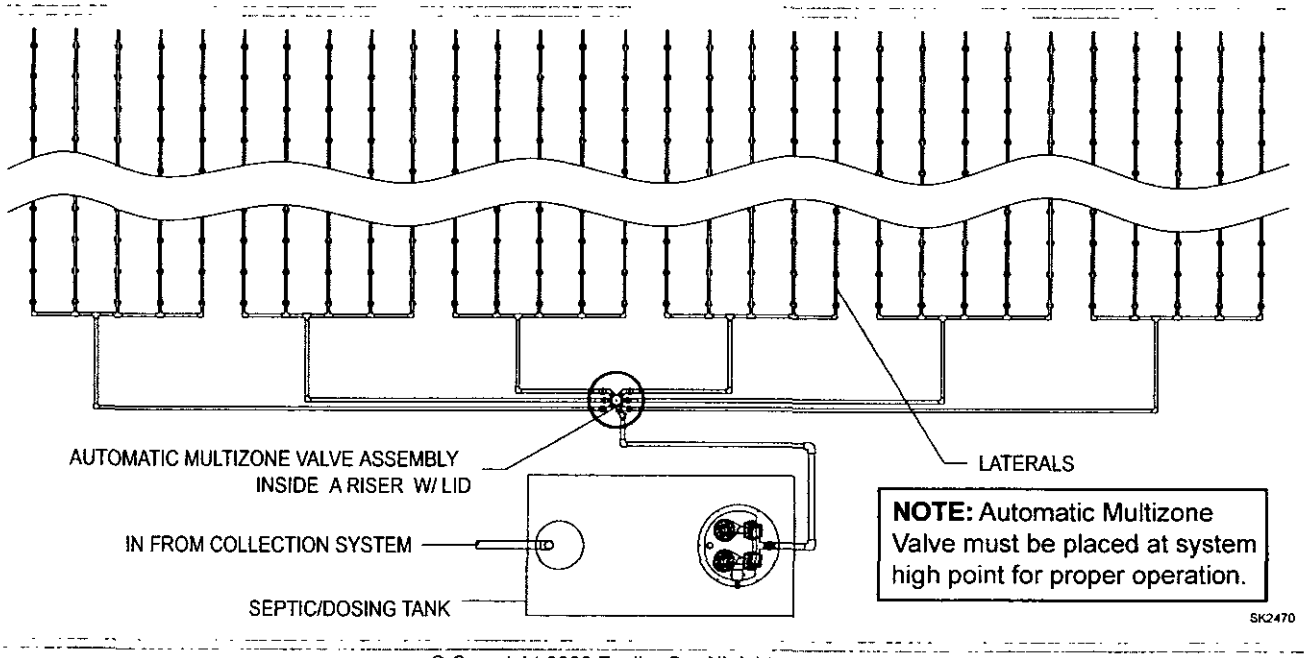
The Zoeller 6000 Series is the foundation of distributing valves. Patented for its ability to manifold multiple zones with only one moving part, this valve offers exceptional reliability and durability under dirty water conditions. With its metal die cast body, the 6000 Series valve is capable of high pressure applications and is recommended for use on pump fed systems.

4000 Series





6000 Series



NOTE: Automatic Multizone Valve must be placed at system high point for proper operation.

SK2470

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4000 & 6000 Automatic Multizone Valves

SPECIFICATIONS	4000 SERIES	6000 SERIES
Flow Range: (Minimum flow of 10 gpm for the 4000 Series and 15 gpm for the 6000 Series must be maintained in order for the valve to index properly.)	4 Outlet Valve: 10 - 50 GPM 6 Outlet Valve: 10 - 40 GPM	4 Outlet Valve: 15 - 150 GPM 6 Outlet Valve: 15 - 150 GPM
Pressure Rating:	2½ - 75 PSI	2½ - 150 PSI
Pressure Loss - 4 Outlet Valve:	Flow (GPM): 10 20 30 40 50 PSI Loss: 2.0 3.0 4.5 6.4 10.0	Flow (GPM): 15 30 60 90 120 150 PSI Loss: 2.0 3.0 5.0 9.0 11.0 13.0
Pressure Loss - 6 Outlet Valve:	Flow (GPM): 10 20 30 40 PSI Loss: 2.5 4.5 7.5 11.5	Flow (GPM): 15 30 60 90 120 150 PSI Loss: 2.0 3.5 6.0 10.0 12.0 14.0
Inlet:	Slip and glue connections to 1¼" PVC pipe	Threaded 1½" NPT Connection.
Outlets:	Slip and glue connections. 4 Outlet Valve: To 1¼" PVC Pipe 6 Outlet Valve: To 1" PVC Pipe	Slip and glue connections to 1½" PVC Pipe.
Construction:	High strength noncorrosive ABS polymer.	Die Cast Metal Housing High strength noncorrosive ABS Polymer Outlets
Dimensions:	Height: 5¾" Width: 5¾"	Height: 7" Width: 8"

6" Clear PVC Pipe

P/N 170-0074	(4) 1¼" Dia. Pieces For 4400 2-4 Zone.	P/N 170-0076	(4) 1½" Dia. Pieces For 6400 2-4 Zone.
P/N 170-0075	(6) 1" Dia. Pieces For 4600 5-6 Zone.	P/N 170-0077	(6) 1½" Dia. Pieces For 6600 5-6 Zone.

4000 SERIES:

4 Outlet Models

P/N 170-0064	Model 4402 - For 2 Zone operation.
P/N 170-0065	Model 4403 - For 3 Zone operation.
P/N 170-0066	Model 4404 - For 4 Zone operation.

6 Outlet Models

P/N 170-0067	Model 4605 - For 5 Zone operation.
P/N 170-0068	Model 4606 - For 6 Zone operation.

6000 SERIES:

4 Outlet Models

P/N 170-0069	Model 6402 - For 2 Zone operation.
P/N 170-0070	Model 6403 - For 3 Zone operation.
P/N 170-0071	Model 6404 - For 4 Zone operation.

6 Outlet Models

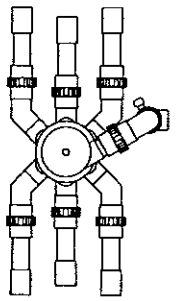
P/N 170-0072	Model 6605 - For 5 Zone operation.
P/N 170-0073	Model 6606 - For 6 Zone operation.

New Automatic Multizone Valve Assemblies

Featuring 6000 Series Automatic Multizone Valves

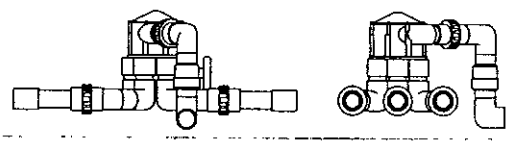
- Easy to install -
  Slip ends are ready to glue.
- Easy to maintain -
  Unions allow for simple removal. Shutoff ball valve included.
- Convenient to test -
  Clear PVC "Windows" indicate current flow path instantly.
- Compact -
  Assemblies fit easily in a Zoeller 30" Deluxe Riser.

P/N 5053-0001	2 Outlet Multizone Assembly.
P/N 5053-0002	3 Outlet Multizone Assembly.
P/N 5053-0003	4 Outlet Multizone Assembly.
P/N 5053-0004	5 Outlet Multizone Assembly.
P/N 5053-0005	6 Outlet Multizone Assembly.



6 Outlet Multizone Valve Assembly Shown

SK2469



ALL ZOELLER ON-SITE WASTEWATER PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE PLUMBING AND/OR HEALTH DEPARTMENT CODES.

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When Your Problem in On-site Waste Is:



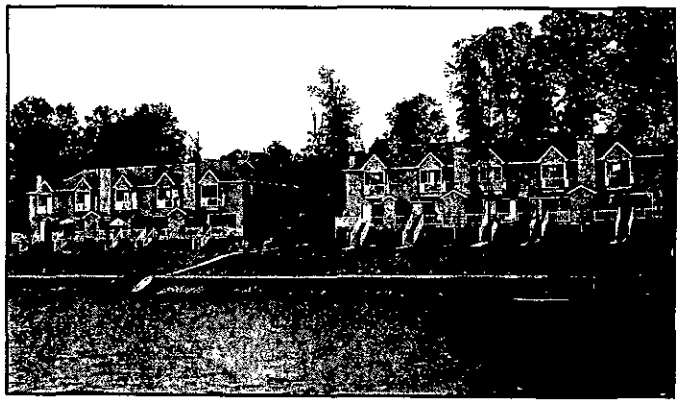
Topography and Vegetation



Special Landscaping Needs



Future Site Needs



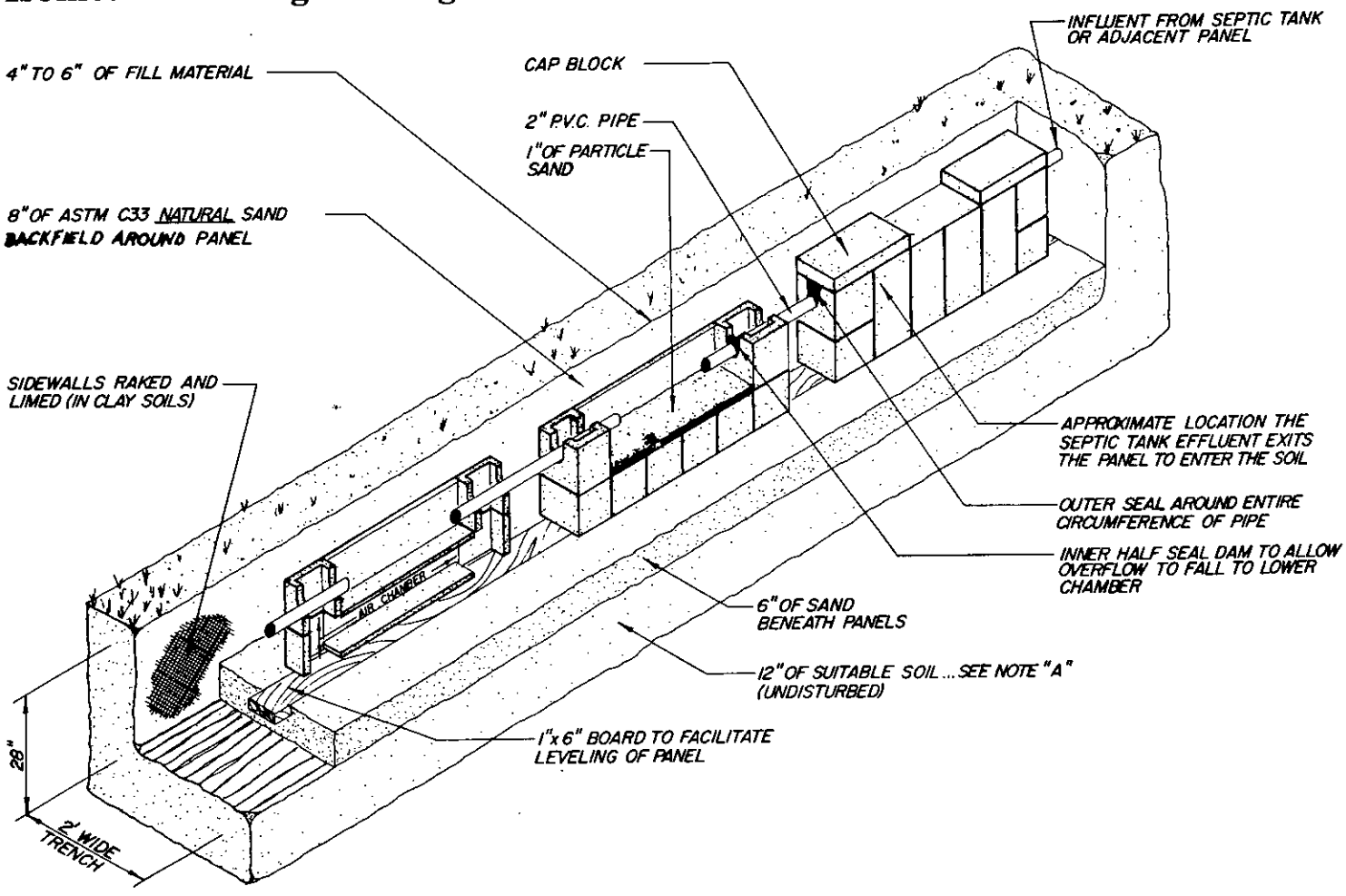
Limited Suitable Area

Then consider the

T&J Panel Wastewater Treatment System

A Better Quality Effluent Than With Conventional Systems

Isometric Drawing of A Segment of 16" T&J Panel System Drainfield

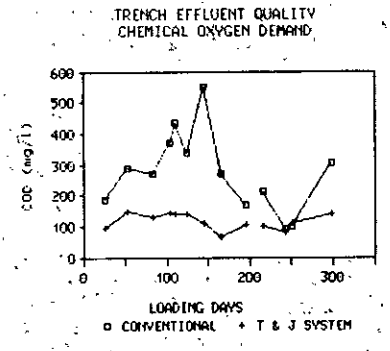


Advantages of the T&J Panel System

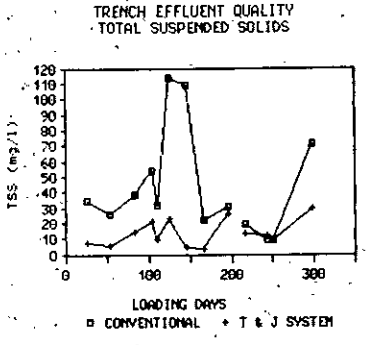
- Effluent discharged closer to the ground surface
- Each panel works as individual unit
- Panel may be grouped where best soils are found
- Less soil distributed during installation
- Less catch basin effect
- Lines only 24" wide — more landscape flexibility
- Aerobic bacterial activity
- Easily installed — similar to conventional system
- Can be installed as modified mound system
- Lines can be inspected or serviced through lids
- Prefabricated panels delivered to job site

Environmentally Superior Effluent With The T&J Panel System

In a side by side test, both total suspended solids and chemical oxygen demand was reduced with the Panel System. The panels were loaded at 3.4 times that of the conventional system.



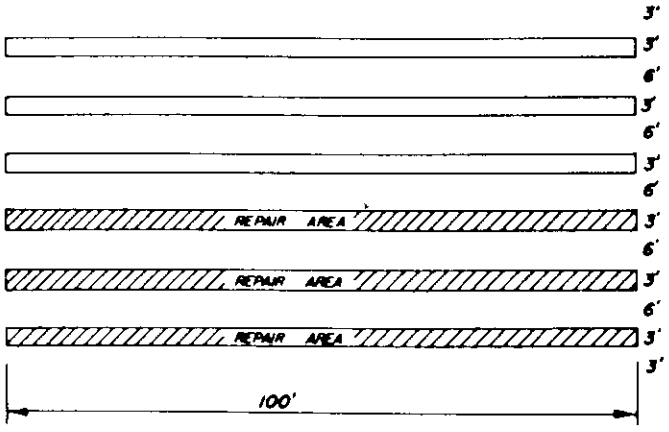
Total Suspended Solids Concentration for Effluent from Simulated Conventional and T&J System Trenches. (Note: Hydraulic Loading Rate for Conventional = 1.53 ca/day, for T&J = 5.27 ca/day.)



Chemical Oxygen Demand Concentration for Effluent from Simulated Conventional and T&J System Trenches. (Note: Hydraulic Loading Rate for Conventional = 1.53 ca/day, for T&J = 5.27 ca/day.)

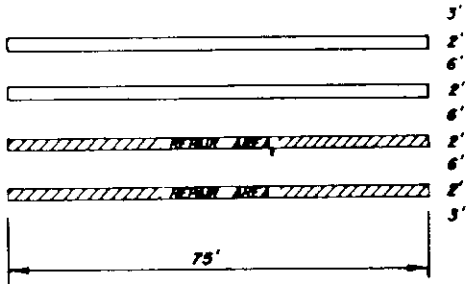
See the difference in a real space needed with the T&J Panel System Wastewater Treatment System when compared to a conventional tile/stone nitrification system.

Conventional System



A total suitable and usable area of 5400 square feet is needed for a conventional system.

T & J Panel System



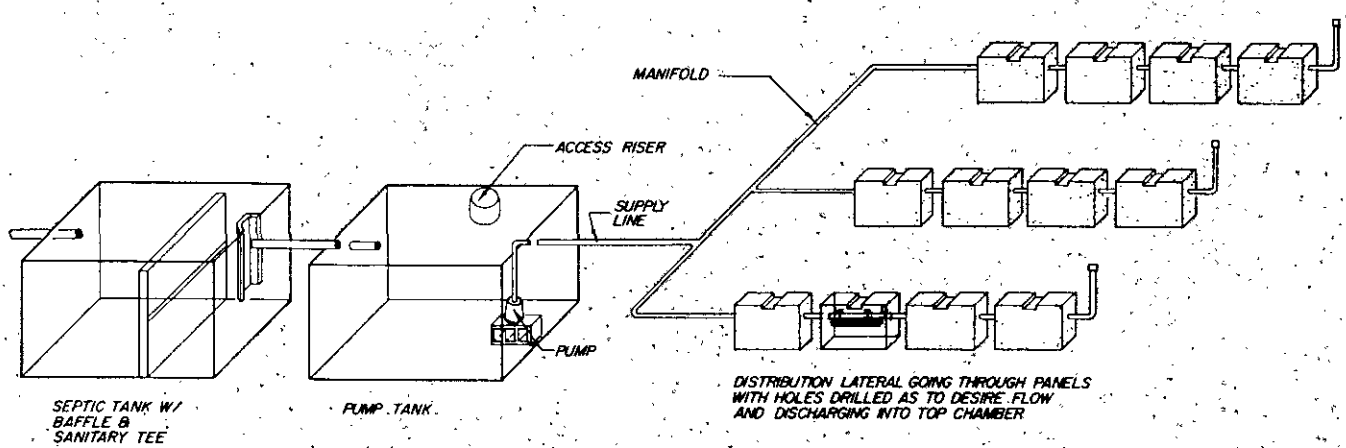
A total suitable and usable area of 2400 square feet is needed for the T & J Panel System**.

*Typical 3 bedroom house in a clay soil with 0.4 gallon per day per foot square application rate with a design flow on 120 gallons per day per bedroom.

**The T & J Panel Wastewater Treatment System is included in the North Carolina Sewage regulations as a PPBPS as of August 1, 1988. This allows for a 50% reduction in lineal footage of trench with the 16 inch panel as illustrated above. (See note "A")
Note A - This reflects North Carolina Codes. Please check local codes and practices for your area.

Low Pressure Panels (LP Panel) - Alternative installation for the T&J Panel System.

The LP offers a high quality effluent with a uniform distribution of wastewater throughout the entire system.



- Uniform distribution of the effuent.
- Elimination of localized overloading.
- Works with 2-4 feet of pressure head.
- Dosing and resting cycles.
- Placing of the effluent into the sidewall near the surface—where the more porous soils are found.
- The aerobic action of the T&J Panel's design.
- The filtration of the effluent through the T&J Panel System and its sand backfill.

THE T.&J. PANEL
WASTEWATER TREATMENT SYSTEM

PATENT NUMBER 4013559

P.O. Box 288 • Statesville, North Carolina 28677
N.C. WATS 1-800-222-2577 • (704) 872-9566

There are many new developments in ground absorption sewage disposal system on the market today. The T&J Panel System is designed to make the most out of the least amount of space possible. This is made possible by the fuller use of the more porous top soil and the limited effect of evapotransporation and the wicking action of the block as the effluent is kept close to the surface of the ground and fused through the pores of the block to the sidewall area of the drainfield lines. This more general distribution and wicking allows for the use of the entire sidewall area and helps prevent the sealing off of the bottom and lower sidewalls that often occurs in a conventional system.

A 16 inch high panel is 46 inches long, 8 inches wide, and weighs about 155 pounds. There is a 6 inch by 6 inch air chamber at each end of the panel which extends from top to bottom to ensure aerobic action in each level of the field lines. Each panel has a storage chamber just below the top chamber for storage during peak use periods. A 24 inch panel is also available for use in repair or specially engineered systems.

* *

Limited Warranty

The structural integrity of each T&J Panel, when installed in accordance with manufacturer's instructions, is warranted against defective materials and workmanship for one year from date of manufacture. Should a defect appear within the warranty period, purchaser must inform T&J Panel System of the defect before the warranty expires. T&J Panel System will supply a replacement unit. T&J Panel System's liability specifically excludes the cost of removal and/or installation of the panels. There are no other warranties with respect to the units, including no warranties of merchantability or of fitness for a particular purpose. The warranty does not extend to incidental, consequential, special or indirect damages. The company shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other loss or expense incurred by buyer. Specifically excluded from warranty coverage are: Damage to the panels due to ordinary wear and tear; alteration, accident, misuse, abuse or neglect of the panels; the panels being subjected to stresses greater than those prescribed in the installation instructions; the placement by buyer of improper materials into buyer's system; or any other event not caused by the company. Furthermore, in no event shall the company be responsible for any loss or damage to the buyer, the panels or any third party resulting from its installation or shipment. Buyer shall be solely responsible for ensuring that installation of the system is completed in accordance with all applicable laws, codes, rules and regulations. Any alteration of this warranty must be noted as "Warranty" in writing by the company.

Engineering and Test Data by Law Environmental Services and Ayers and Associates is available from the manufacturer at the address below.

THE T&J PANEL
WASTEWATER TREATMENT SYSTEM

PATENT NUMBER 4013559

P.O. Box 288 • Statesville, North Carolina 28677
N.C. WATS 1-800-222-2577 • (704) 872-9566

Distributed by

Serving people with a better quality system

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30002049** GWS File #: **5870B** Tax Parcel #: **199-361-17**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 3/16/2012

Type of Installation: Residential - Modified Plot Plan Lot Number: 160

Structure Type: HOUSE Size (ft^2): 10000 # Bedrooms: 12 # Occupants: 24

Building Foundation: Basement With Plumbing Water Supply: Municipal

II. Initial System Type: PPBPS (pressurized) **System Classification:** IVa

Initial System Specifications:

Design Flow (gpd):	1440	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	2185	Pump Tank Size (gal):	2185
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	2400	Total Trench Length (ft):	800
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Manifold (LPP Distri		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	1440	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	2185	Pump Tank Size (gal):	0
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	2400	Total Trench Length (ft):	800
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Manifold (LPP Distri		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael Owner/Legal Agent: Rick Rennaker

Signature: Jeremy Michael R.S. Print Name Signature:

Date Issued: 3/16/2007

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30002049** GWS File #: **5870B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 3 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located a minimum distance from the normal pool elevation or mean high water mark for the nearby body of water. See plot plan for minimum setback requirements.
- A pre-installation meeting with the builder, MCHD, S&ME, and TCWW is required on the property to review the system specifications and installation requirements.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael R.S.

Date Issued: 3/16/2007

Owner/Legal Agent: PAUL PENNINGTON
Print Name

Signature:

SEPTIC SYSTEM DESIGN REVIEW WORKSHEET

File: 5870B

Address: 13912 GIRL SCOUT RD

PID #: 199-361-17

Subdivision: SANCTUARY

Lot #: 160

Comments:

- PRELIMINARY DESIGN APPROVED FOR 12-BEDROOM HOUSE. IF FINAL PLAN CALLS FOR 12-BEDROOM DESIGN WILL NEED TO REMOVE MULTIZONE VALVE & REPLACE W/ DUAL PUMPS & DUPLEX CONTROL PANEL.

- ~~PRE CONSTRUCTION IS REQUIRED FOR SITE.~~

- PRE CONSTRUCTION MEETING REQUIRED.

Reviewed By: TREVOR THOMASON **Date:** 3-15-07

Status: ☒ Approved ☐ Disapproved ☐ Pending

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID # PO 199-371-03
Lot #: 160
File #: 5870B
Code: 1

ACS

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: PO Box 1003, Charlotte, N. C. 28201
Date Evaluated: 5/16/2005
Proposed Facility: Residence
Design Flow (.1949):
Property Size: Approx. .5a inv.
Location of Site: Girl Scout Road
Property Recorded:

Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-12	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		12-24	SBK/C	FI/SEXP/S/P					.325GPD/FT^2
		24-48	SBK/CL	FR/SEXP/SS/SP					
2	"	0-8	GR/SCL	"	"	"	"	"	"
		8-24	SBK/C	FI/SEXP/S/P					
		24-48	SBK/CL	FR/SEXP/SS/SP					
3	"	0-8	GR/SCL	"	"	"	"	"	PS, IV
		8-34	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
		34-48	SBK/CL	FR/SEXP/SS/SP					
4	"	0-10	GR/CL	"	"	"	"	"	PS, III
		10-48	SBK/CL	"					.35GPD/FT

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IVa	IVa SAM
Site LTAR	.325GPD/FT^2	.325GPD/FT^2
	.3	.3 SAM

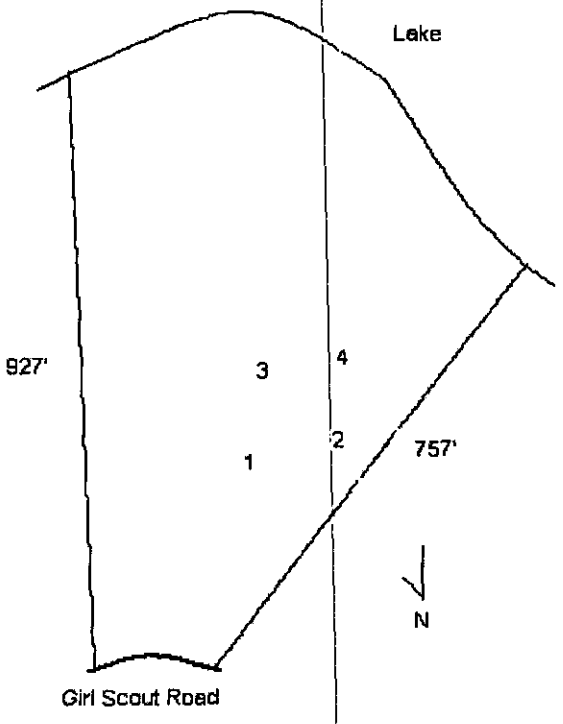
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 5/17/2005 W. R. Marlin
Others Present:

COMMENTS:
100% repair

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Food Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay Loam		PR-Prismatic
T-Terrace		CL-Clay Loam		
FP-Flood Plain		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



FILE NUMBER: 58708

Revised On: January 3, 2007

APPLICATION NUMBER: _____

SEPTIC FEE: 100
DATE: 3/5/07
CK# 0102472

MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES
APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

WELL FEE: _____
DATE: _____

1. SEPTIC / TYPE APPLICATION: ☐ NONE ☒ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☒ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☒ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. JOB LOCATION INFORMATION: 199-361-17

TAX PARCEL NUMBER: P.O. ~~199-37-1-002~~

STREET ADDRESS: Girl Scout Road

CITY: Charlotte 13912

STATE: NC **ZIP:** 28278

SUBDIVISION NAME:

LOT #: 160 **LOT SIZE (acres):** 9.4 Acres

TOWNSHIP:

☒ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. BUILDING INFORMATION:

BUILDING TYPE:

☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☒ HOUSE ☐ OTHER _____

HEATED SQUARE FOOTAGE: 10,000

NUMBER OF BEDROOMS: 12

NUMBER OF OCCUPANTS: 24

FOUNDATION TYPE:

☐ CONCRETE SLAB ☒ BASEMENT WITH PLUMBING
☐ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☐ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ☒ MUNICIPAL ☐ PUBLIC WELL ☐ PRIVATE WELL ☐ SHARED WELL ☐ SPRING

7. PROPOSED USE OF WELL: ☒ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED):*

	☐ ANY TYPE	☐ CONVENTIONAL	☐ ACCEPTED	☐ INNOVATIVE	☐ ALTERNATIVE	☐ OTHER PPRPS
8A. RANK:	___	___	___	___	___	___

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☒ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☒ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☒ NO	*JURISDICTIONAL WETLANDS*	☐ YES	☒ NO
WELLS, SPRINGS, OR WATER LINES	☐ YES	☒ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	☐ YES	☒ NO
EASEMENTS OR RIGHT-OF-WAYS	☒ YES	☐ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	☐ YES	☒ NO

10. PROPERTY OWNER: 20' P.O.E.

NAME: SANCTUARY AT LAKE WYLIE
ADDRESS: 11104 LIMEHURST Drive
CITY: Charlotte
STATE: NC ZIP: 28278
HOME ~~PHONE~~: WORK PHONE: 295-1106
MOBILE PHONE: FAX:

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME: Paul Pennington, Sime
ADDRESS: 365 Twin Rd
CITY: Mooresville, NC 28115
STATE: ZIP:
HOME PHONE: — WORK PHONE: 704-662-6825
MOBILE PHONE: FAX:

12. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2004

13 WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 2 wks

14. SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:
If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

3-5-07
Property Owner's or Owner's Legal Representative Signature Date

15. WELL PERMIT APPLICATION SIGNATURE SECTION:
If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of 12 months from the date of issuance.

Property Owner's or Owner's Legal Representative Signature Date

☐ SURVEY PLAT TO SCALE SUBMITTED ☒ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

MECKLENBURG COUNTY-GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211, CHARLOTTE, NC 28202 PHONE: (704) 336-5103 FAX: (704) 336-6894

S&ME

Date: June 13, 2005

To: Mr. David Cornelius, R.S.
Mecklenburg County Env. Health Dept.

From: Paul G. Penninger, LSS
Toney C. Jacobs, LSS

RE: Request for an Improvement Permit for Lot 160 at The Sanctuary:
MCHD File #5870B

The Sanctuary at Lake Wylie is requesting an Improvement Permit for the above referenced lot. Mr. Bill Marlin has evaluated the soils (see attached MCHD soil sheets) and S&ME, Inc. has flagged the system and repair on the lot. The septic lines have been located by the surveyor and are shown on the attached maps provided by LandDesign Engineering. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot at The Sanctuary.

We understand that a building permit cannot be issued until your office issues an Authorization to Construct (ATC). The buyer will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, we understand that the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on the lot prior to obtaining the ATC from the MCHD.**

Tri-County Wastewater (TCWW) is under contract to supply maintenance services for each septic system installed at The Sanctuary. TCWW will have a list of preferred septic contractors for the subdivision and will also have requirements for septic system installation that are greater than the MCHD and State requirements. It will be the responsibility of TCWW to enforce any requirements above State requirements or the MCHD conditions on the Improvement Permit.

Please review the attached system sketch and design specifications for the Improvement Permit. Any additions or revisions you feel are necessary can be made on the Improvement Permit. Please call in you have and questions or comments.

S&ME, Inc.
105-D Denver Business Park Dr.
Mooresville, North Carolina 28115-7926

(704) 662-8625
(704) 662-8735 fax
www.smeinc.com

Design Specifications for Lot 160 at The Sanctuary
MCHD File # 5870B

Daily Design Flow:	600 gpd
Number Bedrooms:	5 bedroom
Basement or Crawl Space:	Basement
Septic Tank Size:	1500 gal
Pump Tank Size:	1500 gal
Primary System Loading Rate:	**0.325 gpd/ft^2**
Primary System:	**25% reduction**
Number and length of laterals:	5 @ 100 ft.
Total ft. of primary system:	500 ft.
Flow Rate through system:	27.5 gpm – use ½ in. SCH 80 taps with 2 ft. head pressure on pressure manifold (5.5 gpm per tap)
Pump Requirements:	to be calculated by installer when specific house and pump tank locations are available
Dosing Volume:	approx. 270 gal. – 2.2 doses/day at design flow
Depth of effluent pumped per dose:	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check Valve:	yes
Siphon break hole:	no
Repair System Loading Rate:	**0.325 gpd/ft^2**
Repair System:	**LP PPBPS**
Total ft. of repair	340 ft.

Notes: old 12" RCP to be removed prior to system construction

DRIVE

170' B REPAIR

170' O REPAIR

170' W REPAIR

170' Y

170' B

170' O

665.90 665.14 664.24 665.31 666.26 665.40 664.35 665.15 665.98 664.36 663.57 664.39 663.55 667.57 663.72 662.71 662.17 662.77 661.73 661.78 666.18

TD

34+00

35+0

20' SETBACK

PRESSURE MANIFOLD

657.37 657.37 657.26 657.11 656.14 656.10 655.34 655.40

65' Y

60' O

65' B

25' W

100' B

100' Y

100' W

100' O

100' B

5' O

5' W

652.37 652.37 650.15 650.16 649.27 649.25 648.05 647.12 646.98 645.76 646.96 645.95

160

409,491 sq.ft.

9.40 acres

MINIMUM FPE = 573'

12" RCP

DRIVE

5' SIDEYARD

5' SIDEYARD

N31°02'10"E 757.84'

5' SIDEYARD

5' SIDEYARD

N05°42'48"W 927.85'

20' S.D.E.

20' S.D.E.

REMOVE OLD

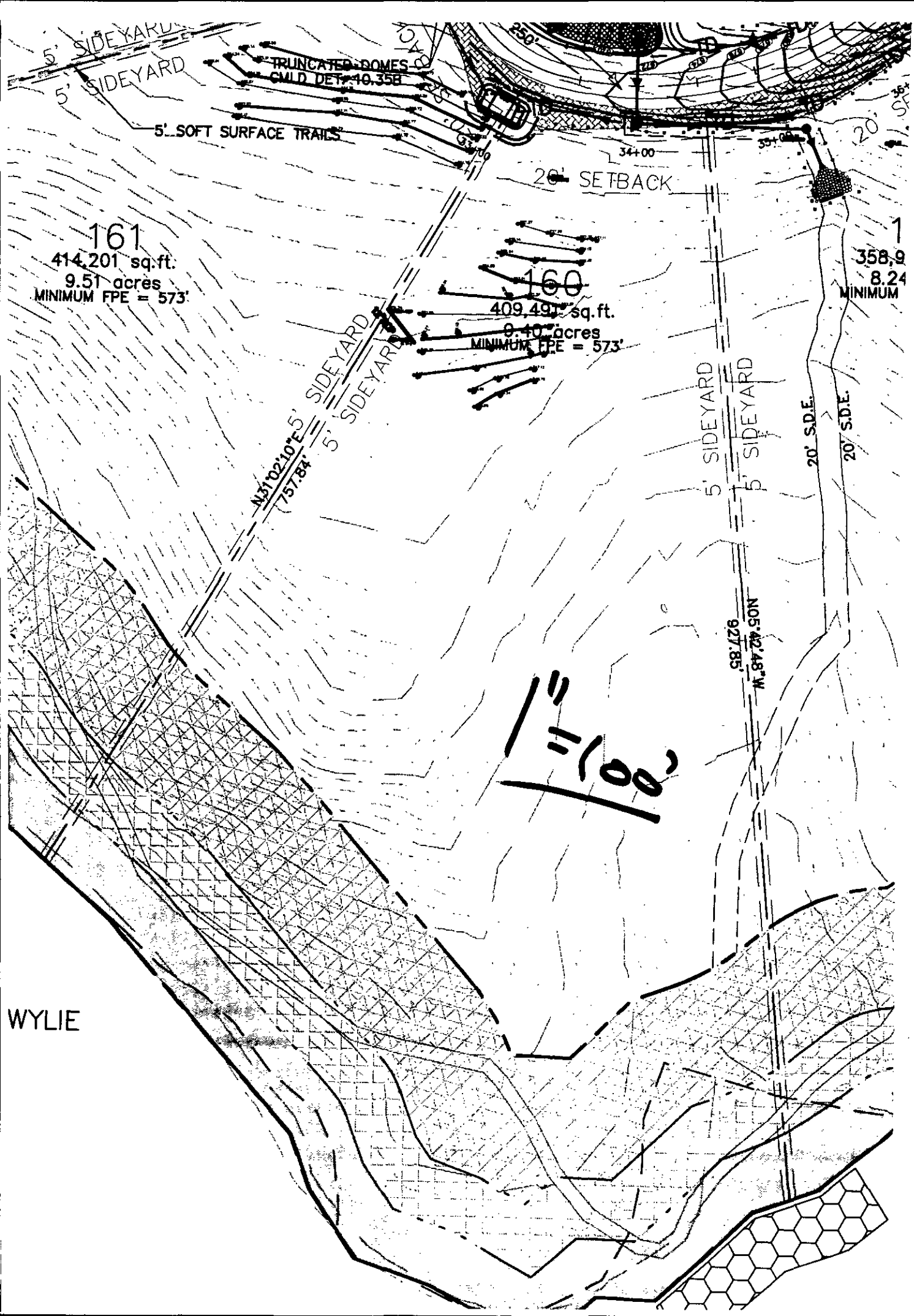
12" SCH 40 PVC SUPPLY LINE

100'

70'

105'

15' R


5' SIDEYARD
5' SIDEYARD
TRUNCATED DOMES
CMLD DET=10,358
5' SOFT SURFACE TRAILS
250'
34+00
20' SETBACK
161
414,201 sq.ft.
9.51 acres
MINIMUM FPE = 573'
160
409,491 sq.ft.
9.40 acres
MINIMUM FPE = 573'
1
358,9
8.24
MINIMUM
5' SIDEYARD
5' SIDEYARD
5' SIDEYARD
5' SIDEYARD
N31°02'10"E
757.84'
N05°42'48"W
927.85'
20' S.D.E.
20' S.D.E.
1"=100'
WYLIE

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID # PO 199-371-03
Lot #: 160
File #: 5870B
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Sanctuary at Lake Wylie
Address: PO Box 1003, Charlotte, N. C. 28201
Proposed Facility: Residence Design Flow (.1949):
Location of Site: Girl Scout Road
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Toney Jacobs
Date Evaluated: 5/16/2005
Property Size: Approx. .5a inv.
Property Recorded:

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 .1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-12	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		12-24	SBK/C	FI/SEXP/S/P					.325GPD/FT^2
		24-48	SBK/CL	FR/SEXP/SS/SP					
2	"	0-8	GR/SCL	"	"	"	"	"	"
		8-24	SBK/C	FI/SEXP/S/P					
		24-48	SBK/CL	FR/SEXP/SS/SP					
3	"	0-8	GR/SCL	"	"	"	"	"	PS, IV
		8-34	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
		34-48	SBK/CL	FR/SEXP/SS/SP					
4	"	0-10	GR/CL	"	"	"	"	"	PS, III
		10-48	SBK/CL	"					.35GPD/FT

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.325GPD/FT^2	.325GPD/FT^2

Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 5/17/2005
Others Present:

COMMENTS:
100% repair

Landscape Position	Group	Texture	.1955 LTAR
R-Ridge	I	S-Sand	1.2 - 0.8
SS-Shoulder Slope		LS-Loamy Sand	
LS-Linear Slope			
FS-Food Slope	II	SL-Sandy Loam	0.8 - 0.6
NS-Nose Slope		L-Loam	
HS-Head Slope			
CC-Concave Slope	III	SI-Silt	0.6 - 0.3
CV-Convex Slope		SICL-Silty Clay Loam	
T-Terrace		CL-Clay Loam	
FP-Flood Plain		SCL-Sandy Clay Loam	
	IV	SC-Sandy Clay	0.4 - 0.1
		SIC-Silty Clay	
		C-Clay	

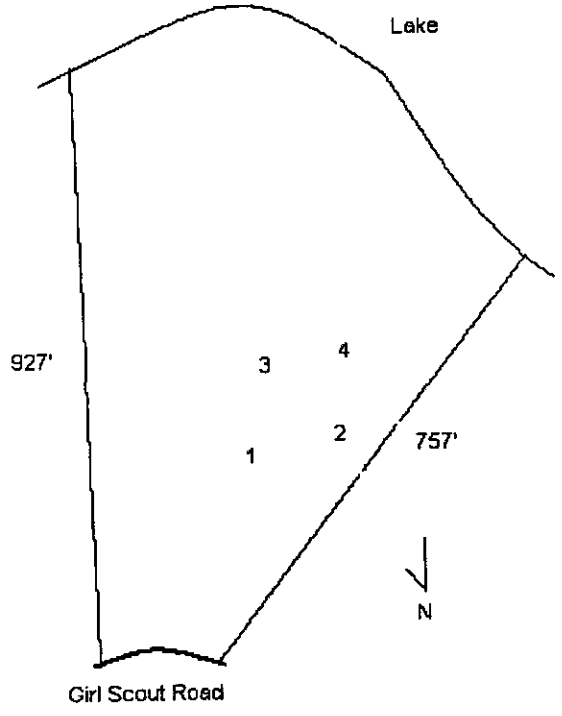
Structure
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet
NS-Non-Sticky
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

Sketch of Soil Evaluation Locations



FEE: _____
DATE: _____

AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION

PERMIT NUMBER: 5870B
PARCEL NUMBER: 199-371-03

JOB LOCATION ADDRESS: Girl Scout Road Lot #160
PROPERTY OWNER: The Sanctuary @ Lake Wylie
BUILDING CONTRACTOR:
SUBDIVISION NAME: The Sanctuary @ Lake Wylie
AUTHORIZATION ISSUED BY: David Cornelius, RS DATE: 07/18/05

DENR/DEH AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 5870B, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN *INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL* MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A P ERIOD E QUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.

5. OTHER CONDITIONS:
   Install according to plans on file submitted by S&ME.
   Lot #160, phase III

CONDITIONS OF IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATON

Permit Number: **5870B** Tax Number: **199-371-03**

- The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement: ☒ Yes ☐ No ☐ Partial Basement

Primary Wastewater System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☐ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☐ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☒ Innovative or Experimental:

0.325 Long-term acceptance rate (GPD/ft^2)	600 Max gallons/day wastewater flow	1384 Absorption Area (ft^2)	9 Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	1500 Gallon septic tank	461 Total trench length (ft)	24 Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.)
5 Bedrooms in residence	1500 Gallon pump tank	na Depth of stone (in)	

Any surface water present: **No** Type: Minimum separation distance (ft):

Additional conditions: **Install according to plans on file submitted by S&ME. Lot #160, phase III**

Repair Area System

Type: ☐ I ☐ II ☐ III ☒ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☐ Innovative or Experimental:

923 Absorption Area (ft^2) 308 Total trench length (ft)	na Depth of stone (in)	8 Trench spacing (min. on centers) (ft)	24 Maximum trench depth (in)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. The approval is granted in accordance with the provisions of Laws and Rules For Sewage Treatment, and Disposal Systems in effect at the time of issuance of the permit and is subject to the following provisions:

*** No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department.

*** This Improvement permit is transferable.

DENR Authorized Agent Date 7/18/05

Owner/Agent Signature Date 8-2-05

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE: (704) 336-5103
FAX: (704) 336-6894

NC DENR
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

#2048

GWS – RES. APP 12/04

200.00 Check 1891

SEPTIC FEE
DATE
CRT

JKA 2/21/05

PERMIT APPLICATION FOR A RESIDENTIAL SITE
IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION
FOR ON-SITE WASTEWATER SYSTEM
NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL
MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

WELL FEE
DATE
CRT

FILE # 5870B

SEPTIC / TYPE APPLICATION: ☐ NONE ☒ NEW SYSTEM EXISTING SYSTEM: ☐ EXPANSION/ALTERATION ☐ REPAIR

WELL / TYPE APPLICATION: ☐ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

JOB LOCATION INFORMATION:

TAX/PARCEL #: 199 350 32
STREET ADDRESS: GIRL SCOUT
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION OR MOBILE HOME PARK NAME: SANCTUARY
LOT #: 160
TOWNSHIP:

☒ 0-MECKLENBURG ☐ 4-PINEVILLE
☐ 1-CHARLOTTE ☐ 5-MATTHEWS
☐ 2-DAVIDSON ☐ 6-HUNTERSVILLE
☐ 3-CORNELIUS ☐ 7-MINT HILL

BUILDING INFORMATION:

TYPE OF BUILDING:

☐ SINGLE MOBILE HOME (S) ☐ MODULAR HOME (M)
☐ DOUBLE WIDE (D) ☐ MULTIPLE FAMILY (U)
☒ HOUSE (H) ☐ OTHER

HEATED SQUARE FOOTAGE:
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☒ BASEMENT WITH PLUMBING
☐ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:
WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☐ NO TYPE:

WATER SUPPLY:

☒ MUNICIPAL (M) ☐ PUBLIC (C) ☐ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☒ NO	WELLS, SPRINGS, OR WATER LINES	☐ YES	☐ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☒ NO	DESIGNATED WETLANDS	☐ YES	☐ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES	☒ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☒ NO

PROPERTY OWNER:

NAME: SANCTUARY AT LAKE WYLIE, LLC
ADDRESS: P.O. Box 1003
CITY: CHARLOTTE, NC
STATE: NC ZIP: 28201
HOME PHONE: WORK PHONE: 295-0950
MOBILE PHONE: FAX:

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: TONEY JACOBS, JACOBS ASSOC. INC
ADDRESS: 169 FRANKLIN DR.
CITY: MOORESVILLE
STATE: NC ZIP: 28117
HOME PHONE: — WORK PHONE: 663-6905
MOBILE PHONE: — FAX: 662-9845

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? Lots Not RECORDED
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?

*An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

2-21-05

Owner's/Agent's Signature Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT & NATURAL RESOURCES DIVISION
OF ENVIRONMENTAL HEALTH ON-SITE
WASTEWATER SECTION

*A Well Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

MECKLENBURG COUNTY HEALTH DEPARTMENT
GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202
704-336-5103 / FAX: 704-336-6894