

13500 SAGE THRASHER LN

19936132

1/9/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = !DAutomationHC39M

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

Sheet: 1 of 2
Property ID # 199-371-03
Lot #: 174
File #: 57668
Code: 1

AC

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: P. Penninger, S & ME
Address: 11104 Limehurst Place, Charlotte, N. C. 28278
Date Evaluated: 8/2/2005
Proposed Facility: Residence
Design Flow (.1949): 840gpd
Property Size: Approx. .5a inv.
Location of Site: Sage Thrasher Lane
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, 10	0-21	WK/SBK/CL	FR/SEXP/SS/SP	>41" TO SOIL WETNESS	41	N/A	NONE	PS, IV
		21-41	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-10	WK/SBK/CL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	"	"	"
		10-31	SBK/C	FI/SEXP/S/P					
		31-42	WK/SBK/CL	FR/SEXP/SS/SP					
3	"	0-13	"	"	"	"	"	"	"
		13-42	SBK/C	FI/SEXP/S/P					
4	"	0-8	GR/SCL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49	"	"	"
		8-24	SBK/SCL	"					
		24-49	SBK/C	FI/SEXP/S/P					
5	"	0-7	GR/SCL	FR/SEXP/SS/SP	>40" TO SOIL WETNESS	40	"	"	"
		7-20	SBK/C	FI/SEXP/S/P					
		20-40	SBK/CL	FR/SEXP/SS/SP					

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

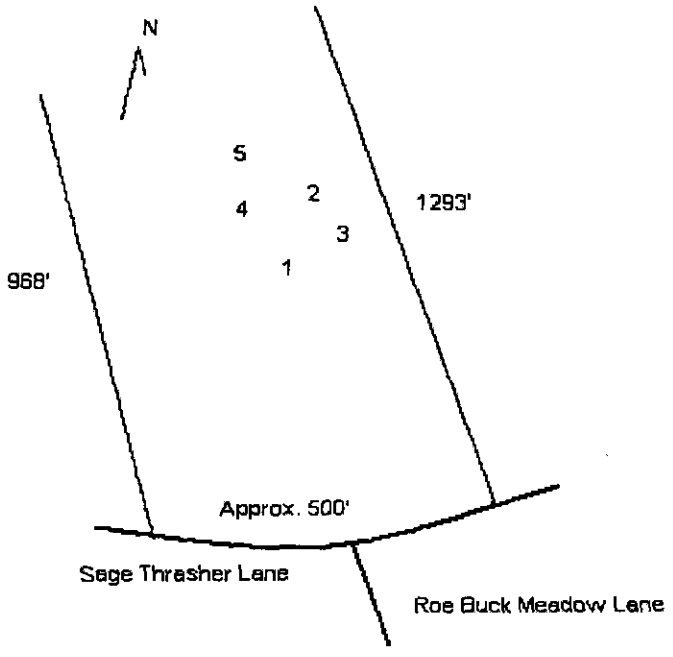
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 8/5/2005. W. R. Marlin
Others Present: P. Penninger

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



CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: **5766B**

Tax Number: **199-371-03**

- The IMPROVEMNET 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:

0.3 Long-term acceptance rate (GPD/ft^2)	360 Max gallons/day wastewater flow	900 Absorption Area (ft^2)	9 Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	1500 Gallon septic tank	300 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.)
3 Bedrooms in residence	1500 Gallon pump tank	na Depth of stone (in)	

Any surface water present: **Yes** Type: **Lake** Minimum separation distance (ft): **100**

Additional conditions: **Install according to plans on file submitted by S&ME, 7/30/05.**
Lot #174 The Sanctuary @ Lake Wylie
Guest House - one of two systems on the same lot.

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:

600 Absorption Area (ft^2) 200 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 HELTH 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 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: 8/3/05

Owner/Agent Signature — Date: 8-8-05

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: **5766B** Tax Number: **199-371-03**

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- 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:

0.3 Long-term acceptance rate (GPD/ft^2)	840 Max gallons/day wastewater flow	2100 Absorption Area (ft^2)	9 Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	1500 Gallon septic tank	700 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.)
7 Bedrooms in residence	1500 Gallon pump tank	na Depth of stone (in)	

Any surface water present: **Yes** Type: **Lake** Minimum separation distance (ft): **100**

Additional conditions: **Install according to plans on file submitted by S&ME, 7/30/05.**
Lot #174 The Sanctuary @ Lake Wylie
Main House - one of two systems on the same lot.

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:

1400 Absorption Area (ft^2) 466 Total trench length (ft)	na Depth of stone (in)	8 Trench spacing (min. on centers) (ft)	24 Maximum trench depth (in)

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HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

Owner/Agent Signature Date 8-8-05

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

$1,200
7/27/05 chg in plot plan Refund 100.00 7/27/05 JKA

GWS – RES. APP 12/04

SEPTIC FEE
DATE
CRT

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 # 5766B

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 #: 199-371-03
STREET ADDRESS: SAGE Thrasher Lane
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary
LOT #: 174
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: 3
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: The Sanctuary at Lake Wylie LLC
ADDRESS: 11104 Linchurst Place
CITY: Charlotte
STATE: NC ZIP: 28278
HOME PHONE:
WORK PHONE: 295-1106
MOBILE PHONE:
FAX:

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: PAUL PENNINGTON SITE, INC
ADDRESS: 105D Denver Tech. Park Dr
CITY: Mooresville, NC
STATE: ZIP: 28115
HOME PHONE: 662-8625 WORK PHONE:
MOBILE PHONE: 996-6330 FAX: 662-8735

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2005
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? ~ 30 days

*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.

Owner's/Agent's Signature 7-25-05 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

Surveyed Location Fema Floodplain Boundary Line Per Fema Community Panel # 370158 0221E

7001 TL

VERIFY 20L

N18°20'27"W 1293.19'

N14°52'22"W 1000.58'

N12°48'16"W 968.78'

173
336,520 sq.ft.
7.73 ac.
MUM FPE = 573'

174
531,614 sq.ft.
12.20 ac.
MINIMUM FPE = 573'

175
415,443 sq.ft.
9.54 ac.
MINIMUM FPE = 573'

7-BEDROOM SYSTEM FLAGGED

3-BEDROOM SEPTIC

5' WIDE SIDEWALK EASEMENT

Sage Thrasher Lane

PROP. 30' R

TRUNCATED DOMES CMLD DET. 10.35B

STOP SIGN

20' S.D.E.

20' S.D.E.

250'

150'

150'

5' CONCRETE SIDEWALK

167
225,684 sq.ft.
5.18 ac.
COS
1.77 AC

N43°34'57"E 565.93'

5' CONCRETE SIDEWALK

5' WIDE SIDEWALK EASEMENT

EXISTING DIRT ROADS

COS
15.67 AC

Roe Buck Meadow Lane

166
293,704 sq.ft.
6.74 ac.
MINIMUM FPE = 573

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	07/27/05	**Amount:**	200.00
Receipt #:	36079	**Tendered:**	200.00
Check / Auth #:	CHECK 0090	**Returned:**	0.00
Received By:	AIDOOJK		

Account Information

Account #: 200000
Contractor: S&ME
Attn:
Address: 3718 OLD BATTLEGROUND ROAD
Address:
City/State/Zip: GREENSBORO, NC 2710

Item	Description	Permit#	Quantity	Unit Price	Total Price
0704	Change in Plot Plan SAGE THRASHER LANE LOT 174		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

MECKLENBURG COUNTY LAND USE AND ENVIRONMENTAL SERVICES AGENCY
CREDIT/REFUND APPLICATION & ADJUSTMENT FORM

See back for completion instructions and the Credit/Refund Schedule

PVQ LUE 000

SECTION I - IF CREDIT OR REFUND (To Be Completed By Requestor)

CREDIT ☒

OR

REFUND ☒

1. Property Owner's Name: Sanctuary at Lakewyl LLC 2. Permit Number: 5766B
3. Address: PO Box 1003 4. Date Issued: _____
5. Reason for Request: (✓ one) ☐ Plan Change ☐ Duplicate Permit _____ Duplicate Permit # _____ Date of Duplicate _____
   ☐ Not Doing Work
   ☒ Other (Specify) Overpayment of fee
6. Account Name: _____ Account # _____
7. *If Refund*, Check payable to: S + ME, Inc. (Please Print) 8. Phone _____
9. Address: 3718 Old Battleground Rd. (Street) Greensboro (City) NC (State) 27410 (Zip)
10. Signature: request by Agent for owner 11. Printed Name _____ 12. Date: 7/28/05

For Departmental use only. Do not write below this line.

SECTION II - IF ADJUSTMENT (To Be Completed By Employee & Supervisor)

Incorrect Entry	Correct Entry	Reason	Emp Initials	Date	Superv Initials	Date

SECTION III - INSPECTION COUNT AND PURGING (To Be Completed By Applicable Core Process)

# Of made Inspections	B	E	M	P	F	L

Purging: ☐B ☐E ☐M ☐P ☐S ☐F ☐L

Initials _____ Date _____

Expired Permit ☐

SECTION IV - CALCULATIONS (To Be Completed By Applicable Core Process)

Plan Review? (Y/ N)	Inspection Info	Credit/Refund%	Min Fee? (Y/N)	Permit Fee	Credit/Refund Amount
%	%	%	$	$ 100	$ 100.00
Y=80%, N=90%	ea. Insp=10%	PR % - Insp %			Permit Fee X C/R% or Min Fee Whichever is greater

Initials gyc Date 7/29/05

SECTION V - VERIFICATION (To Be Completed By Revenue Collection)

If Refund, Org/Account	Refund with Credit Balance	If Credit, Trans #	Account #	Initials	Entry Date
	8_03=0 9004=$				
8_03 = 0	Refund Charge on account	88 - - -			

Section VI - APPROVALS (To Be Completed By Department And Finance Representatives)

Department Approval: _____ Date _____

Finance Approval: _____ Date _____

_____ - _____
Refund from Account #

_____
Check #

Daily Counter Transactions - Environmental Health

Printed On July 28, 2005 2:49 PM
Printed By Aidoojk

Transaction Date 07/28/05

Receipt#	Account#	Name	Transaction Type	Comments	Pymt Method	Check/Auth No.	User	Amount
36079	200000	S&ME	0704 Change in Plot Plan	SAGE THRASHER LANE LOT 174	CHECK	009038	AIDOOJK	200.00
36080	200000	S&ME	0701 Improvment Permit App-Residen	SAGE THRASHER LANE LOT 174	CHECK	009038	AIDOOJK	200.00
36081	B97633	HICKORY GROVE BAPTIST CHURCH	0753 Private Well, New	7754 E. WT Harris Blvd.	CHARGE		WALKEVA	400.00
36082	200000	MACK, CAROL A	0721 Home Day Care Eval/Permit		CHECK	529	JOHNSK	70.00
36085	200000	WILLIAMS, JOHN	0738 Tattoo Parlor-Year Around		CHECK	912	JOHNSK	125.00
36090	200000	BOSIGER MELISSA	0753 Private Well, New	10026 SAW MILL ROAD	VISA	583627	AIDOOJK	400.00
36094	200000	GRAHAM DAY CARE CENTER	0744 Day Care Ed Prog	GRAHAM DC; 8/2 X(5)	CHECK	1457	JONESNY	50.00
36096	200000	MARY'S PRECIOUS LAMBS	0744 Day Care Ed Prog	MARY'S PRECIOUS LAMBS; 8/2, 9/13,	CHECK	3143	JONESNY	30.00
36097	200000	WENDOVER CDC	0744 Day Care Ed Prog	WENDOVER CDC 8/2, (1), 9/13 (1), 10/1	CHECK	54050371133	JONESNY	30.00
36098	200000	MS. PHYLLIS BEFORE & AFTERSCHO	0744 Day Care Ed Prog	MS. PHYLLIS'; 8/2(1) 9/13(1), 10/11(1)	CHECK	08506967927	JONESNY	30.00
36099	200000	MRS. B'S DAY CARE & NURSERY	0744 Day Care Ed Prog	MRS. B'S 8/2 (1)	CHECK	4643	JONESNY	10.00
36100	200000	UNIVERSITY CHILD DEV CENTER	0744 Day Care Ed Prog	UNIV DEV CTR; 8/2(1), 9/13(1), 10/11(1)	CHECK	1500	JONESNY	30.00
36103	200000	SUPERIOR PLUMBING CO. INC.	0705 MH Exc/Add/Repl w/o System Mod	13911 STILLWOOD PLACE	CHECK	004974	WALKEVA	100.00

Total for Transaction Date 07/28/05: 1,675.00

S&ME, Inc.
3718 Old Battleground Rd.
Greensboro, North Carolina 27410

01

PLEASE DETACH AND RETAIN FOR YOUR REC

INVOICE NUMBER	DATE		VOUCHER NO.	AMOUNT
	7/25/05	1588-05-067 PH.2	1588-5020	$400.00

200.00 chk# 9038 7/27/05

GWS – RES. APP 12/04

SEPTIC FEE
DATE
CRT (I)

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 (I)

FILE # 5766B

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 #: 199-371-03
STREET ADDRESS: SAGE Thrasher Lane
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary
LOT #: 174
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: 7
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: The Sanctuary of Lake Wylie, LLC
ADDRESS: 11104 Limehurst Place
CITY: Charlotte
STATE: NC ZIP: 28278
~~HOME PHONE:~~ WORK PHONE: 295-1106
MOBILE PHONE: FAX:

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: PAUL PENNINGER SITE, INC
ADDRESS: 10SD DENVER TECH. PARK DR
CITY: MOORESVILLE, NC
STATE: ZIP: 28115
~~HOME PHONE:~~ 662-8625 WORK PHONE
MOBILE PHONE: 996-6330 FAX: 662-8735

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2005
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? ~ 30 days

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7-25-05

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

Surveyed Location Fema Floodplain Boundary Line Per Fema Community Panel # 370158 0221E

N18°20'27"W 1293.19'

N14°52'22"W 1000.58'

N12°48'16"W 968.78'

173
336,520 sq.ft.
7.73 ac.
MINIMUM FPE = 573'

174
531,614 sq.ft.
12.20 ac.
MINIMUM FPE = 573'

175
415,443 sq.ft.
9.54 ac.
MINIMUM FPE = 573'

7-BEDROOM SYSTEM FLAGGED

5' WIDE SIDEWALK EASEMENT

Sage Terrasher Lane

PROP. 30' R/W

TRUNCATED DOMES CMLD DET. 10.35B

STOP SIGN

250'

150'

5' CONCRETE SIDEWALK

EXISTING DIRT ROADS

167
225,684 sq.ft.
5.18 ac.
COS
1.77 AC

COS
15.67 AC

20' S.D.E.

30' S.D.E.

N43°34'57"E 585.93'

Roe Buck Meadow Lane

166
293,704 sq.ft.
6.74 ac.
MINIMUM FPE = 573'

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	07/27/05	**Amount:**	200.00
Receipt #:	36080	**Tendered:**	200.00
Check / Auth #:	CHECK 0090	**Returned:**	0.00
Received By:	AIDOOJK		

Account Information

Account #: 200000
Contractor: S&ME
Attn:
Address: 3718 OLD BATTLEGROUND ROAD
Address:
City/State/Zip: GREENSBORO, NC 27410

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen SAGE THRASHER LANE LOT 174		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

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

Sheet: 1 of 2
Property ID # 199-371-03
Lot #: 174
File #: 5766B
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: P. Penninger, S & ME
Address: 11104 Limehurst Place, Charlotte, N. C. 28278
Date Evaluated: 8/2/2005
Proposed Facility: Residence
Design Flow (.1949): 840gpd
Property Size: Approx. .5a inv.
Location of Site: Sage Thrasher Lane
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, 10	0-21	WK/SBK/CL	FR/SEXP/SS/SP	>41" TO SOIL WETNESS	41	N/A	NONE	PS, IV
		21-41	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-10	WK/SBK/CL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	"	"	"
		10-31	SBK/C	FI/SEXP/S/P					
		31-42	WK/SBK/CL	FR/SEXP/SS/SP					
3	"	0-13	"	"	"	"	"	"	"
		13-42	SBK/C	FI/SEXP/S/P					
4	"	0-8	GR/SCL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49	"	"	"
		8-24	SBK/SCL	"					
		24-49	SBK/C	FI/SEXP/S/P					
5	"	0-7	GR/SCL	FR/SEXP/SS/SP	>40" TO SOIL WETNESS	40	"	"	"
		7-20	SBK/C	FI/SEXP/S/P					
		20-40	SBK/CL	FR/SEXP/SS/SP					

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

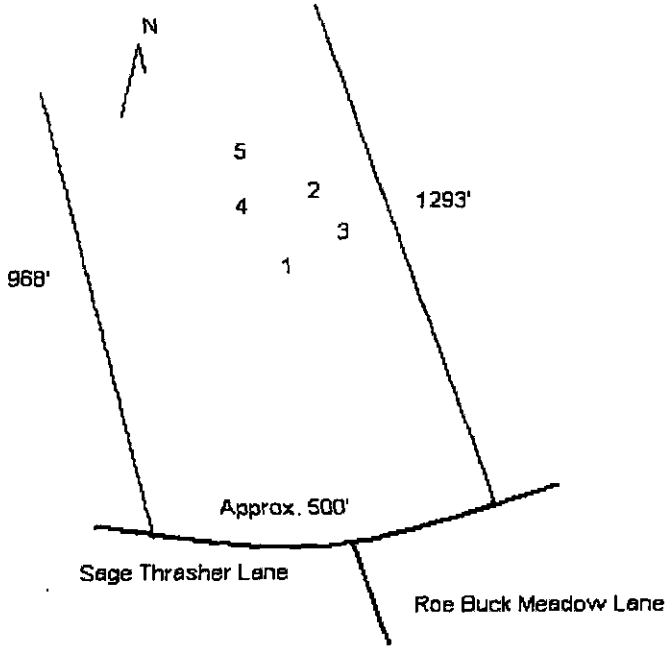
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 8/5/2005,
Others Present: P. Penninger

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



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

ACJ

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 174
File #: 5766B
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 1/13/2005
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: .3a
Location of Site: Sage Thrush Lane
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, 10	0-4	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		4-24	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
		24-48	SBK/CL	FR/SEXP/SS/SP					
2	"	0-3	GR/CL	FR/SEXP/SS/SP	>52" TO SOIL WETNESS	52	"	"	"
		3-40	SBK/C	FI/SEXP/S/P					
		40-52	SBK/CL	FR/SEXP/SS/SP					
3	"	0-3	GR/CL	"	>44" TO SOIL WWETNESS	44	"	"	"
		3-30	SBK/C	FI/SEXP/S/P					
		30-44	SBK/SCL	FR/SEXP/SS/SP					

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

Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 1/14/2005, W. R. Marlin
Others Present: P. Penninger

COMMENTS:
1005 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-Foot 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	

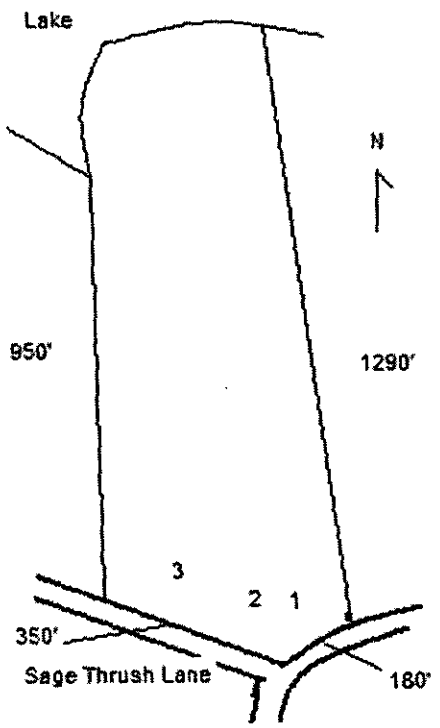
Structure
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

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



200.00 chk # 9038 7/27/05

GWS – RES. APP 12/04

SEPTIC FEE: PAID
DATE: 7/27/05
CRT [illegible]

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: PAID
DATE: 7/27/05
CRT [illegible]

FILE # 5766B

COPY

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 #: 199-371-03
STREET ADDRESS: SAGE Thrasher Lane
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary
LOT #: 174
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: 7
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
EXISTING WASTEWATER SYSTEMS ☐ YES ☒ NO
EASEMENTS OR RIGHT-OF-WAYS ☐ YES ☒ NO
WELLS, SPRINGS, OR WATER LINES ☐ YES ☒ NO
DESIGNATED WETLANDS ☐ YES ☒ NO
GRADING/SOIL REMOVAL PERFORMED ☐ YES ☒ NO

PROPERTY OWNER:

NAME: The Sanctuary of Lake Wylie, LLC
ADDRESS: 11104 Limehurst Place
CITY: Charlotte
STATE: NC ZIP: 28278
~~HOME PHONE:~~
WORK PHONE: 295-1106
MOBILE PHONE:
FAX:

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: Paul Pennington Stone, Inc
ADDRESS: 105D Denver Tech. Park Dr
CITY: Mooresville, NC
STATE: ZIP: 28115
~~HOME PHONE:~~ 662-8625 WORK PHONE:
MOBILE PHONE: 996-6330 FAX: 662-8735

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2005
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? ~ 30 days

*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.

7-25-05

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

COPY

Surveyed Location Fema Floodplain Boundary Line Per Fema Community Panel # 370158 0221F

173
36,520 sq.ft.
7.73 ac.
IUM FPE = 573'

174
531,614 sq.ft.
12.20 ac.
MINIMUM FPE = 573'

175
415,443 sq.ft.
9.54 ac.
MINIMUM FPE = 573'

N12°48'16"W
968.78'

N18°20'27"W
1293.19'

N14°52'22"W
1000.50'

7-Bedroom System Flagged

3-Bedroom System

5' WIDE SIDEWALK EASEMENT

Sage Thrasher Lane

PROP. 20' S.D.E.

TRUNCATED DOMES CMLD DET. 10.35B

STOP SIGN

25R

250'

150'

5' CONCRETE SIDEWALK

167
25,684 sq.ft.
5.18 ac.
1.77 AC

COS

N43°34'57"E
585.93'

20' S.D.E.

20' S.D.E.

5' CONCRETE SIDEWALK

5' WIDE SIDEWALK EASEMENT

166
293,704 sq.ft.
6.74 ac.
MINIMUM FPE = 573'

EXISTING DIRT ROADS

COS
15.67 AC

Roe Buck Meadow Lane

S&ME

Date: July 30, 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 174 at The Sanctuary:
MCHD File #5766B

The Sanctuary at Lake Wylie is requesting two Improvement Permits for the above referenced lot. One will be for a 3 bedroom home and one for a 7 bedroom home. 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 lot was originally permitted for a 5 bedroom home on 3-15-2005. Part of this 5 bedroom system area will be used for the 3 bedroom system area. 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 174 at The Sanctuary
MCHD File # 5766B -- 3-Bedroom Home

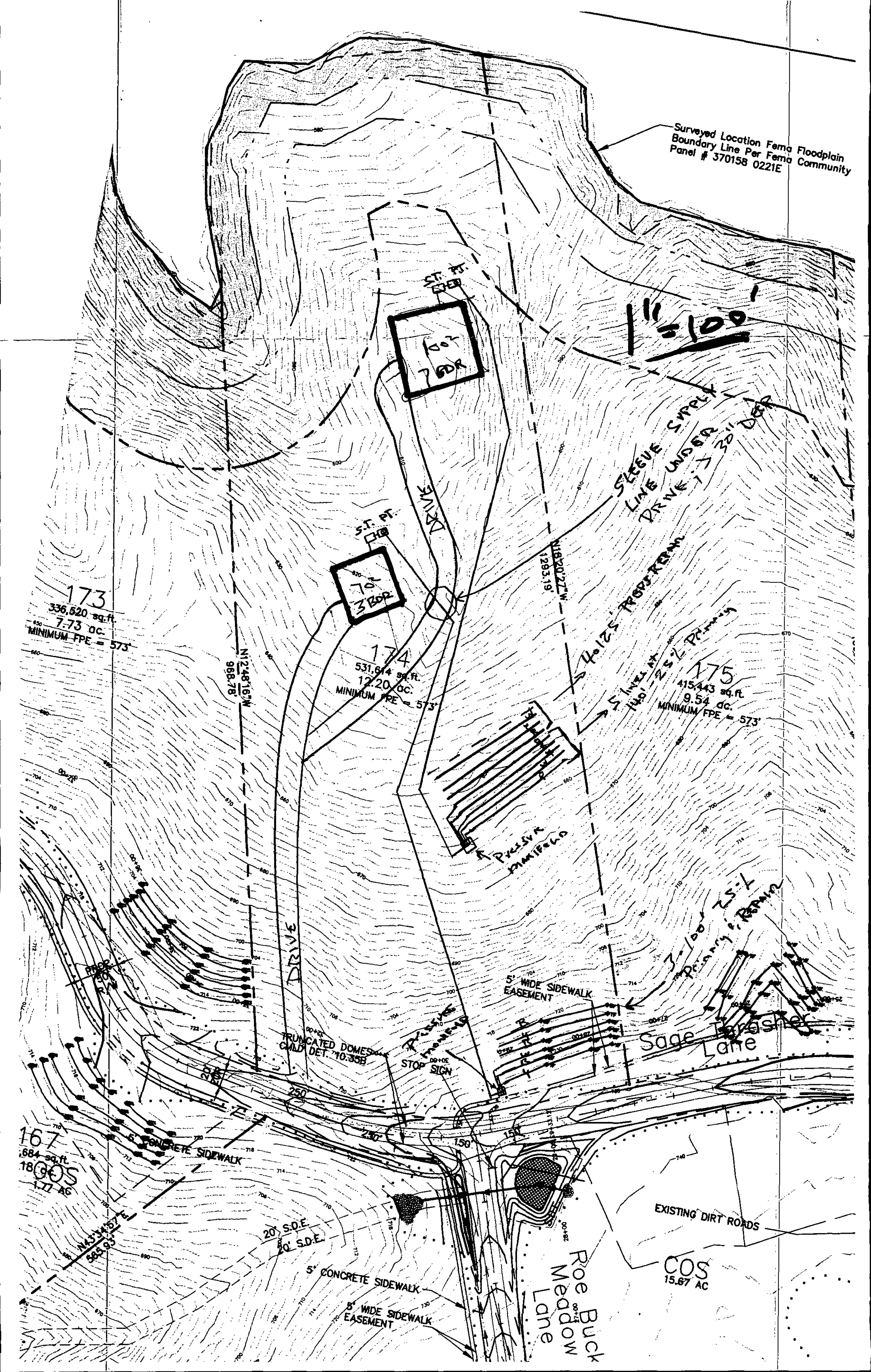
Daily Design Flow:	360 gpd
Number Bedrooms:	3 bedroom
Basement or Crawl Space:	Basement
Septic Tank Size:	1500 gal
Pump Tank Size:	1500 gal
Primary System Loading Rate:	**0.3 gpd/ft^2**
Primary System:	**25% reduction**
Number and length of laterals:	3 @ 100 ft.
Total ft. of primary system:	300 ft.
Flow Rate through system:	16.5 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. 200 gal. – 1.8 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:	**0.3 gpd/ft^2**
Repair System:	**LP PPBPS**
Total ft. of repair	300+ ft.

Notes:

Design Specifications for Lot 174 at The Sanctuary
MCHD File # 5859B -- 7-Bedroom Home

Daily Design Flow:	840 gpd
Number Bedrooms:	~~3 bedroom~~ 7 BEDROOM
Basement or Crawl Space:	Basement
Septic Tank Size:	1500 gal
Pump Tank Size:	1500 gal
Primary System Loading Rate:	**0.3 gpd/ft^2**
Primary System:	**25% reduction**
Number and length of laterals:	5 @ 140 ft.
Total ft. of primary system:	700 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. 400 gal. – 2.1 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:	**0.3 gpd/ft^2**
Repair System:	**LP PPBPS**
Total ft. of repair	500 ft.

Notes:



Surveyed Location Fema Floodplain Boundary Line Per Fema Community Panel # 370158 0221E
ST. PT.
10 o 7 BDR
1" = 100'
SLEEVE SUPPLY LINE UNDER DRIVE 1 J 30" DEEP
DRIVE
S.T. PT.
7 o 3 BDR
173
336,520 sq.ft.
7.73 ac.
MINIMUM FPE = 573'
174
531,614 sq.ft.
12.20 ac.
MINIMUM FPE = 573'
175
415,443 sq.ft.
9.54 ac.
MINIMUM FPE = 573'
N12°48'16"W
968.78'
N18°20'27"W
1293.19'
5 lines at 140' - 2.5% Primary
Pressure Manifold
3-100' 2.5-1 Primary & Repair
PROP. 50' R/W
5' WIDE SIDEWALK EASEMENT
Sage Thrasher Lane
TRUNCATED DOMES
CADD DET. 10.35B
STOP SIGN
167
COS
1.77 AC
5' CONCRETE SIDEWALK
N43°34'57"E
565.93
20' S.D.E.
EXISTING DIRT ROADS
COS
15.67 AC
Roe Buck Meadow Lane

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: **5766B** Tax Number: **199-371-03**

- The IMPROVEMNET 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:

0.3 Long-term acceptance rate (GPD/ft^2)	600 Max gallons/day wastewater flow	1500 Absorption Area (ft^2)	9 Trench spacing (min. on centers) (ft)
Serviced by private well: ☐ Yes ☒ No	1500 Gallon septic tank	500 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: **Yes** Type: **Lake Wylie** Minimum separation distance (ft): **50**

Additional conditions: **Install according to plans on file submitted by Toney Jacobs and Associates. Lot #174**

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:

1000 Absorption Area (ft^2) 333 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 HELTH 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 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: 3/15/05

Owner/Agent Signature — Date: 3/15/05

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

TONEY C. JACOBS & ASSOCIATES, INC.

Consulting Soil Scientists

Licensed by the North Carolina Board for Licensing of Soil Scientists

Certified by the American Registry of Certified Professionals in Agronomy, Crops and Soils

168 Broadbill Drive
Mooresville, NC 28117
Phone (704) 663-6905
Fax (704) 662-9845 E-mail jacobs@i-america.net

February 2, 2005

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

From : Toney C. Jacobs
Paul G. Penninger

RE: Request for an Improvement Permit for lot 174 at The Sanctuary:
MCHD file # 5766B

Crescent Resources is requesting an Improvement Permit for lot **174** at The Sanctuary Subdivision for a **5** bedroom, basement home. Mr. Bill Marlin of the MCHD evaluated the soils on 1-14-05 and determined the septic area is PS at an 0.3 gpd/ft^2 LTAR. Toney C. Jacobs and Associates, Inc. has flagged a 25% reduction septic system and PPBPS repair on the lot, as shown on the attached sketch.

We understand a building permit cannot be issued until your office issues an Authorization to Construct (ATC). The buyer of the lot 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 the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on 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 the installation of the septic systems that are greater that the state requirements. It will be the responsibility of TCWW to enforce any requirements above state requirements or the conditions on the Improvement Permit or ATC.

Please review the attached system sketch and design specifications for the Improvement Permit. Please call if you have and questions, comments, or corrections.

Design Specifications for Lot 174 at

The Sanctuary, MCHD File # 5766B

System Type:	primary: repair:	pressure manifold , 25% reduction LP PPBPS
Daily design flow:		600 gpd
Septic tank size:		1500 gal. (2 compartments)
Pumping tank size:		1500 gal.
Effluent loading rate:		0.3 gpd/ft^2 for primary and repair
Number and length of laterals:		3 @ 170 ft. 25% reduction
Flow rate through the system:		16.5 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 or owners agent when specific house and pump tank location are available
Dosing volume:		approx. 270 gal. – 2.2 doses/day at design flow
Depth of water 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

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 #: 174
File #: 5766B
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 1/13/2005
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: .3a
Location of Site: Sage Thrush Lane
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, 10	0-4	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		4-24	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
		24-48	SBK/CL	FR/SEXP/SS/SP					
2	"	0-3	GR/CL	FR/SEXP/SS/SP	>52" TO SOIL WETNESS	52	"	"	"
		3-40	SBK/C	FI/SEXP/S/P					
		40-52	SBK/CL	FR/SEXP/SS/SP					
3	"	0-3	GR/CL	"	>44" TO SOIL WWETNESS	44	"	"	"
		3-30	SBK/C	FI/SEXP/S/P					
		30-44	SBK/SCL	FR/SEXP/SS/SP					

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

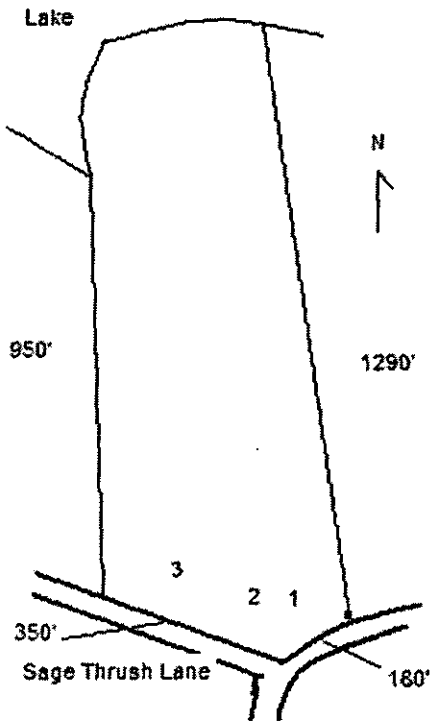
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 1/14/2005,
Others Present: P. Penninger

COMMENTS:
1005 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-Foot 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



Surveyed Location Fem
Boundary Line Per Fem
Panel # 370158 0221E

* System vses 3 Lines AT 17" - 25 Y. REDUCER
* Repair 20' + 19' + 16' + 55' Repair

173
336,520 sq.ft.
7.73 ac.
MINIMUM FPE = 573'

174
531,583 sq.ft.
12.20 ac.
MINIMUM FPE = 573'

167
225,723 sq.ft.
5.18 ac.
1.77 AC
MINIMUM FPE = 573'

175
415,438 sq
9.54 ac
MINIMUM FPE

N12°32'33"W 512.67'
N12°48'16"W 968.78'
N18°20'27"W 1293.19'
N83°54'53"W 99.98'
L=246.72' R=275.00'
L=201.86' R=225.00'
N32°50'38"W 81.68'
R=50.00'
N32°50'38"W 81.89'
L=144.42' R=175.00'
L=185.65' R=225.00'
N79°47'34"W 177.32'
N79°47'34"W 139.37'
L=206.87' R=370.88'
L=339.92' R=456.97'
N68°36'30"E 290.36'
N68°36'30"E 255.69'
N25°18'36"E 50.95'
N17°59'19"W 206.25'
N5°01'40"W 201.
S.D.E.
20' S.D.E.
20' S.D.E.
5' CONCRETE SIDEWALK
5' WIDE SIDEWALK EASEMENT
100' FRONT SETBACK (TYP.)
40' SIDE SETBACK (TYP.)
STOP SIGN
TRUNCATED DOMES CMLD DET. 10.35B
PEDESTRIAN CROSSING
150'
L=246.72' R=275.07
L=201.86' R=225.09
2" SRHD AVC SUPPLY LINE
Rescue MANHOLE
Sage
Roe Mea
EX

FEE: 200 CK# 1296

DATE: 11/3/04

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

1 1 CRT

TYPE APPLICATION: ___ NEW SYSTEM ___ EXPANSION/ ALTERATION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTEM

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

FILE #: 5766B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 199-371-03 pd

STREET ADDRESS: Island Point Rd

SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary At Lake Wylie, LLC II

LOT NUMBER: 174

TYPE OF BUILDING (CHECK ONE):

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

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
___ 7 MINT HILL

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: NUMBER OF OCCUPANTS:

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
___ WITH BASEMENT /PLUMBING
___ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
___ SHARED WELL (S)
✓ MUNICIPAL (M)
___ OTHER 'SPRINGS' (O)
___ PRIVATE WELL (P)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES ___ YES ✓ NO
EXISTING WASTEWATER SYSTEMS ___ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS ✓ YES ___ NO
WELL, SPRINGS OR WATERLINES ___ YES ✓ NO
DESIGNATED WETLANDS ___ YES ✓ NO

PROPERTY OWNER:

NAME: (LAST) The Sanctuary At Lake Wylie, LLC (FIRST) (MI)

ADDRESS: 10933 Ballantyne Crossing Ave

CITY: Charlotte STATE: NC ZIP: 28277

DAYTIME PHONE: 704 544-0201 ext 226

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) Jacobs (FIRST) Tonay (MI) C

DAYTIME PHONE: 908 663-6905

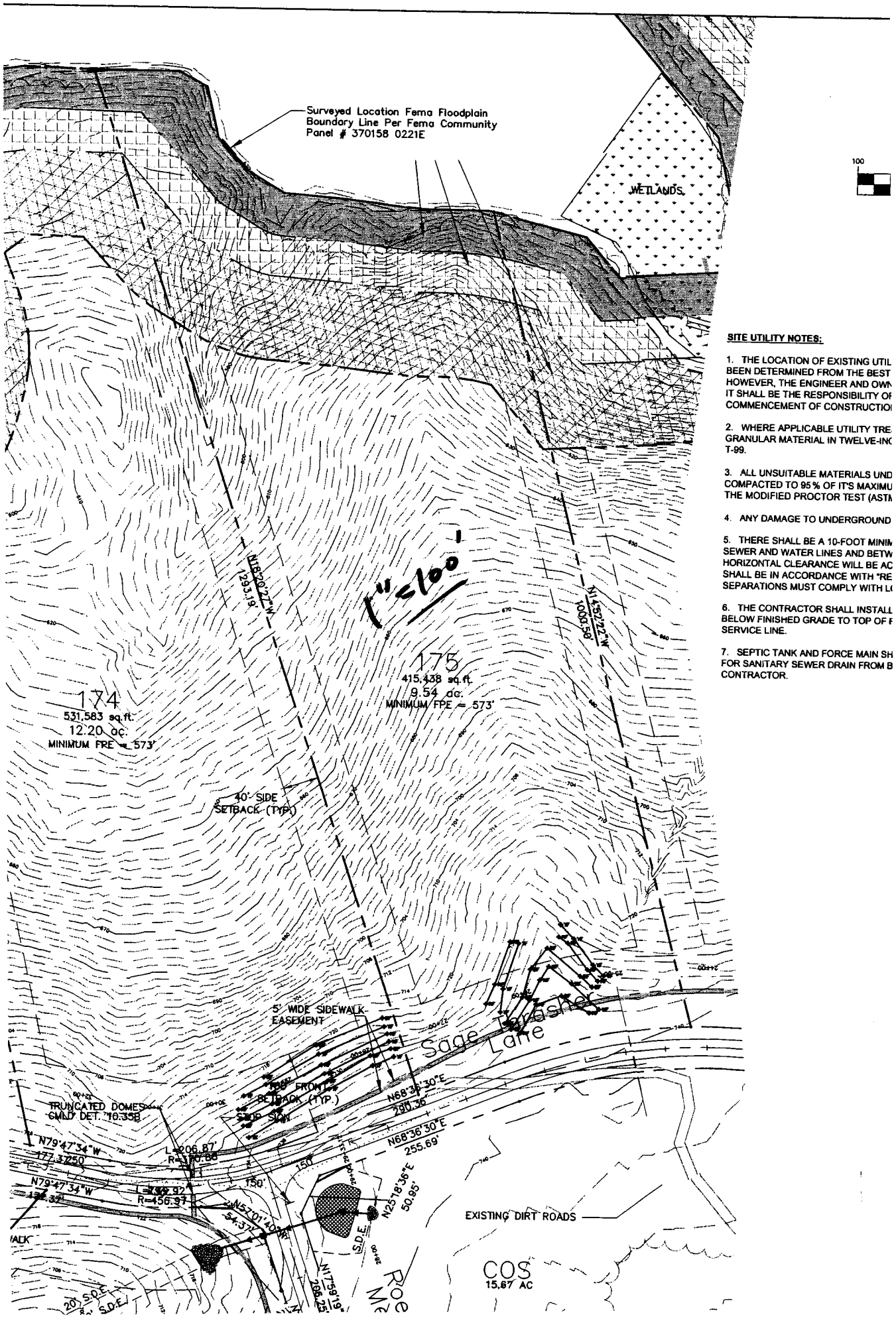
m 704 582 9219

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

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 agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Tonay C Jacobs, CPSS (AGENT) DATE: 11/2/04

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102



SITE UTILITY NOTES:

1. THE LOCATION OF EXISTING UTIL
BEEN DETERMINED FROM THE BEST
HOWEVER, THE ENGINEER AND OWN
IT SHALL BE THE RESPONSIBILITY OF
COMMENCEMENT OF CONSTRUCTIO

2. WHERE APPLICABLE UTILITY TRE
GRANULAR MATERIAL IN TWELVE-INC
T-99.

3. ALL UNSUITABLE MATERIALS UND
COMPACTED TO 95% OF IT'S MAXIMU
THE MODIFIED PROCTOR TEST (ASTM

4. ANY DAMAGE TO UNDERGROUND

5. THERE SHALL BE A 10-FOOT MINIM
SEWER AND WATER LINES AND BETW
HORIZONTAL CLEARANCE WILL BE AC
SHALL BE IN ACCORDANCE WITH "RE
SEPARATIONS MUST COMPLY WITH LO

6. THE CONTRACTOR SHALL INSTALL
BELOW FINISHED GRADE TO TOP OF F
SERVICE LINE.

7. SEPTIC TANK AND FORCE MAIN SH
FOR SANITARY SEWER DRAIN FROM B
CONTRACTOR.