

9810 BELT RD

13943102

1/9/2008

duponbj

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

S&EC

Soil & Environmental Consultants, PA

236 LePhillip Court, Suite C • Concord, North Carolina 28025 • Phone: (704) 720-9405 • Fax: (704) 720-9406
www.SandEC.com

Transmittal

To: Bill Marlin
Mecklenburg County Health Dept.
700 N. Tryon St.
Charlotte, NC 28202

Project # 5-1619.S1 Date: 5/12/06

Project Name: McManus Rd

File:

We Transmit to you Herewith:

- ☐ Drawings
- ☐ Specifications
- ☐ Brochures or photos
- ☐ Correspondence
- ☐ As per your request
- ☐ For your information and files
- ☐ For comment or approval
- ☐ Returned for correction, resubmit
- ☒ Layout

Under Separate Cover:

- ☒ By mail
- ☐ By courier
- ☐ By express

No. Copies	Document No.	Date	Description
1		5/6/06	Layout and map for 3 bedroom home for McManus Road project.

Remarks:

If enclosures are not as listed as above, kindly notify us at once.

By: Eric Bailey

Greensboro Office:
3817-E Lawndale Drive
Greensboro, NC 27455
Phone: (336) 540-8234
Fax: (336) 540-8235

Raleigh Office:
11010 Raven Ridge Road
Raleigh, NC 27614
Phone: (919) 846-5900
Fax: (919) 846-9467

McManus Road

Project No. 5-1619S1

LAYOUT FOR A 3 BEDROOM HOME — **May-06**

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	Designed LENGTH
TBM		0.0			100.0		
INSTR. 1			100.0				
			System				
GRAVEL	SYSTEM						
1	Pink			3.90	96.1	62	60
2	White			3.70	96.3	68	60
3	Red			3.60	96.4	75	60
4	Blue			3.40	96.6	78	60
5	Orange			3.10	96.9	76	60
6	Yellow			3.00	97.0	67	60
7	White			3.00	97.0	55	
					Total	**481**	**360**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	INNOVATIVE TYPE	DISTRIBUTION
System	360	0.25	At Grade	Chamber	P. Manifold

Notes:

**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings
**Lines may be longer in field

**SUITABLE FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND TOPOGRAPHIC IRREGULARITIES.
THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS. SOME OTHER CONSIDERATIONS THAT AFFECT SITE SUITABILITY THAT SHOULD BE CONSIDERED IN DEVELOPMENT DESIGN ARE:

1) 10' SETBACK FROM PROPERTY LINE
2) 100' SETBACK FROM ANY WELL
3) 50' SETBACK FROM STREAMS, PONDS OR LAKES.

See accompanying S&EC report.

DRAFT
FOR REVIEW ONLY

D 28"

* Not a Survey *

Pink 60'
White 60'
Red 60'
Blue 60'
Orange 60'
Yellow 60'

GRAPHIC SCALE
1" = 20'

20 0 20 40

E 37"

G

PROJECT NO.	5-1612
PROJECT MGR.	WD
DRAWN BY	EB
FIELD WORK	EB, JB
SCALE	1" = 20'
FILE	C:\RHONDA\

Soil & Environmental Consultants, PA
[illegible]

S&EC

McMillan Road
City Manager
- MCMANUS ROAD -
RECREATIONAL COMPLEX, SOUTH CAROLINA
May 2006

SHEET TITLE:
LAYOUT
SKETCH MAP

SHEET
1 OF 1

**SUITABLE FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE. SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND TOPOGRAPHIC IRREGULARITIES.
THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS. SOME OTHER CONSIDERATIONS THAT AFFECT SITE SUITABILITY THAT SHOULD BE CONSIDERED IN DEVELOPMENT DESIGN ARE:

1) 10' SETBACK FROM PROPERTY LINE
2) 100' SETBACK FROM ANY WELL
3) 50' SETBACK FROM STREAMS, PONDS OR LAKES.

See accompanying G&EO report.

DRAFT
FOR REVIEW ONLY

* Not a Survey *

Area for system and repair

Layout for system

C 38"

D 28"

Green Tubing 60'

Red 60'

Blue 60'

White 60'

Pink 60'

Pressure Manifold

A 37"

B 34"

E 37"

2" SCH 40 Supply line

3 Bedroom Home

1500 Gal Tanks

Drive

~ 21000 Ft. Sq.

~ 9,000 Ft. Sq. Repair Area

I 29"

J 36"

K 36"

L 33"

H 30"

G 30"

Belt Road

GRAPHIC SCALE
1" = 100'

100 0 100 200

LICENSED SOIL SCIENTIST
JAMES WENDELL OAKLEY
1276
STATE OF NORTH CAROLINA

LEGEND

Areas contain soils with 24 inches or more of useable material and have potential for conventional (at-grade and shallow) septic systems.

Point representing a boring with county soil scientist

PROJECT NO.
A-1618
PROJECT MGR.
WO
DRAWN BY
EB
FIELD WORK
EB, JB
SCALE
1" = 100'
FILE
C:\RHONDA\

Soil & Environmental Consultants, PA
228 Selby Ct., Ste. C • Dunn, North Carolina 28334 • Phone (910)892-4661 • Fax (910) 892-4662

S&EC

McManus Road
Coy McManus

- MCMANUS ROAD -
HARNETT COUNTY, NORTH CAROLINA
MAY 2005

SHEET TITLE:
PRELIMINARY SOIL / LAYOUT SKETCH MAP

SHEET 1 OF 1

Tract ~~Lot #~~ 6

GWS – RES. APP 12/04

SEPTIC FEE: 200.00
DATE: 7/5/05
CRT [ ] Check 2678 JKA

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

FILE # 60593

WELL FEE:
DATE:
CRT [ ]

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 #: 139-431-02
STREET ADDRESS: ~~McManus Rd~~ 9810 Belt Rd
CITY: Midland
STATE: NC ZIP: 28107
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #: ~~2~~ 6
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

ESTIMATED SQUARE FOOTAGE: 3000
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 4

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: Gary McManus
ADDRESS: 1055 Ben Black Rd
CITY: Midland
STATE: NC ZIP: 28107
HOME PHONE: 704-888-2198 WORK PHONE:
MOBILE PHONE: 704-904-6051 FAX:

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
ADDRESS:
CITY:
STATE: ZIP:
HOME PHONE: WORK PHONE:
MOBILE PHONE: FAX:

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND 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.

Gary McManus 6-30-05
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.

Margaret McManus 6-30-05
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

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

Sheet: 1 of 3
Property ID # PO 139-431-02
Lot #: 6
File #: 6059B
Code: 2

AC5

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Coy McManus
Applicant:
Address: 10055 Ben Black Road, Midland, N. C. 28107
Date Evaluated: 8/3/2005
Proposed Facility: Residence
Design Flow (.1949): 360gpd
Property Size: 5.3a
Location of Site: 9810 Belt road
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
1	LS, 8	0-9	GR/SICL	FR/SEXP/SS/SP	2.5Y7/1at 27"	40	N/A	NONE	US, IV .05GPD/FT^2 LPP
		9-27	ABK/SBK/SIC	FI/SEXP/S/P					
		27-40	ABK/C	VFI/EXP/VS/VP					
2	"	0-6	GR/SICL	FR/SEXP/SS/SP	2.5Y7/1 at 28"	48	"	"	"
		6-16	SBK/SICL	"					
		16-48	ABK/SBK/SIC	FI/SEXP/S/P					
3	"	0-16	GR/SICL	FR/SEXP/SS/SP	2.5Y7/1 at 27"	36	"	"	"
		16-27	SBK/SICL	"					
		27-36	ABK/SIC	FI/SEXP/S/P					
4	"	0-8	GR/SICL	FR/SEXP/SS/SP	>33" TO SOIL WETNESS	33+	"	"	"
		8-18	SBK/SICL	"					
		18-33	SBK/ABK/SIC	FI/SEXP/S/P					
		33+	ABK/SIC	VFI/EXP/VS/VP					
5	LS, 6	0-8	GR/SICL	FR/SEXP/SS/SP	>23" TO SOIL WETNESS	23	"	"	US, IV .075GPD/FT LPP
		8-23	ABK/SBK/SIC	FI/SEXP/S/P					
6	"	0-9	GR/SICL	FR/SEXP/SS/SP	>20" TO SOIL WETNESS	20	"	"	"
		9-20	SBK/SICL	FI/SEXP/S/P					
		20+	SAPROLITE						

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.075GPD/FT^2	.05GPD/FT^2

Other Factors (.1946):
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 8/8/2005, W. R. Marlin
Others Present: D. Wealker, C. McManus

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

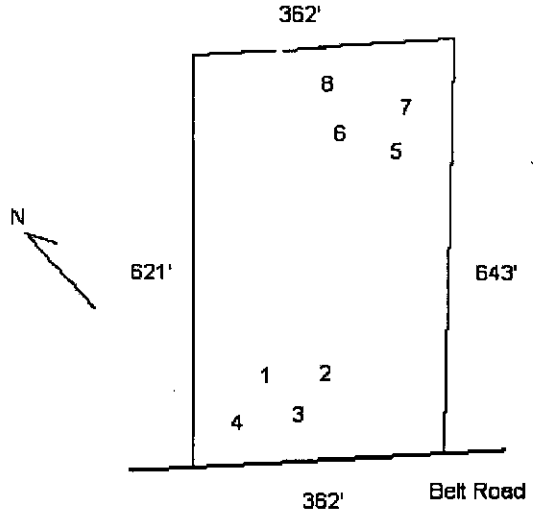
PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
7	LS, 6	0-8	GR/SICL	FR/SEXP/SS/SP	>24" TO SOIL WETNESS	24	N/A	NONE	US, IV .075GPD/FT^2 LPP
		8-24	SBK/SIC	FI/SEXP/S/P					
8	"	0-10	GR/SICL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	"	"	PS, IV .2GPD/FT^2
		10-48	SBK/SIC	FI/SEXP/S/P					

COMMENTS:
100% reoair

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

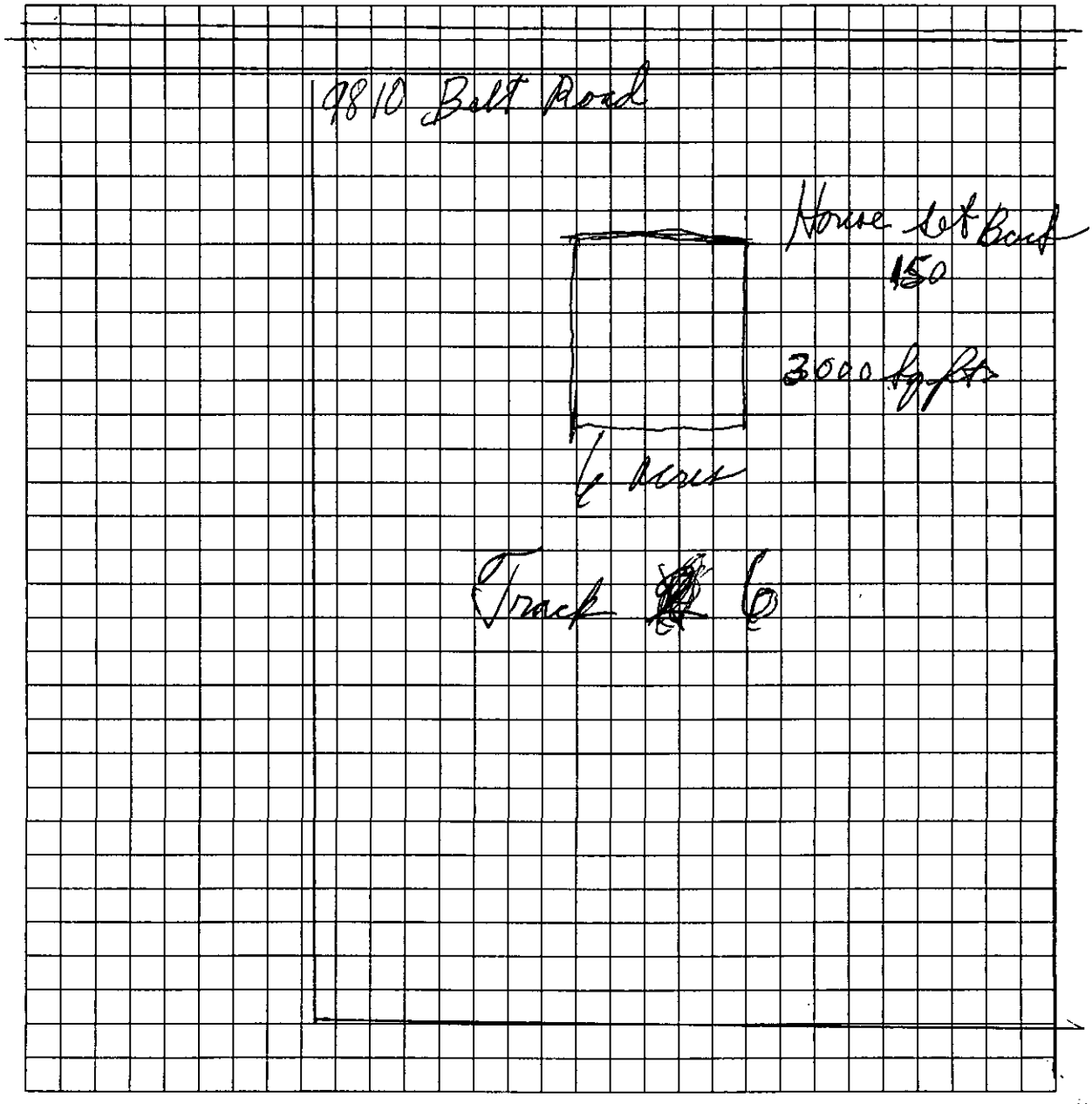


Mecklenburg County
Land Use & Environmental Service Agency
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894

File # 6059B
Approval Date_____

APPROVED PLOT PLAN

A map showing existing and proposed property lines and easements with dimensions, the location of the single family residence, non-single family residence, or other facility, and appurtenances, the site for the proposed well, and the location of existing or proposed sewer lines and/or sewage disposal systems, surface water bodies, aboveground or underground storage tanks. Name all roads adjoining the property.



Owner/Agent Signature	Staff Signature
Date 6-30-05	Date

LBC 12/15/04