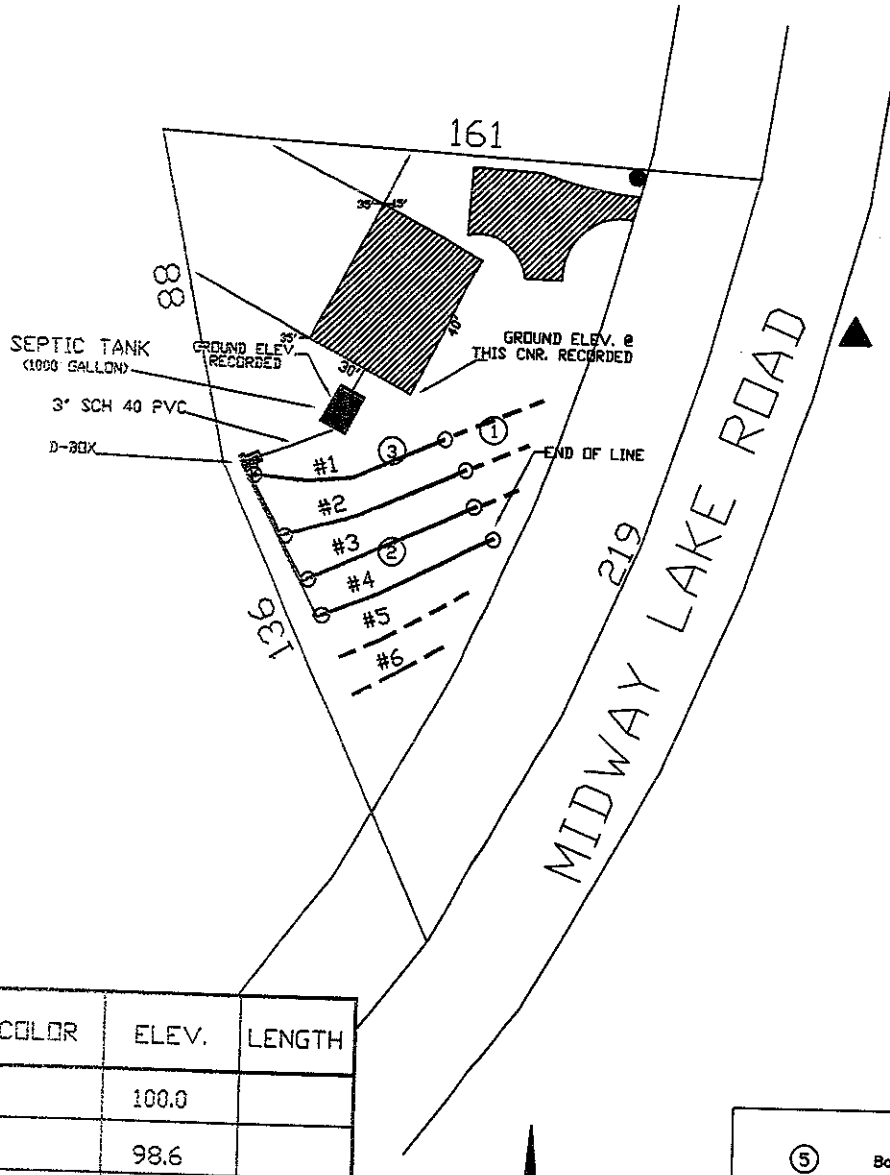
GRAPHIC SCALE

0 25 50 100

(IN FEET)
1 inch = 50 ft.



LINE	COLOR	ELEV.	LENGTH
TBM		100.0	
ST		98.6	
HSE CNR		98.8	
#1	ORANGE	98.0	85'
#2	GREEN	97.4	65'
#3	ORANGE	97.0	60'
#4	GREEN	96.6	50'
#5	ORANGE	96.1	40'
#6	YELLOW	95.5	25'

LEGEND

- (5) Boring locations.
- House & driveway location.
- System lines.
- Repair lines.
- Well location.
- Temporary Bench Mark (TBM); Top; phone box

SHEET 1 of 1

ROLLANS SOIL & ENVIRONMENTAL SERVICES
2120 GRAHAM ROAD
MOUNT ULLA, NC 28125
PHONE/FAX: (704) 278 - 0388
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746 - 5046
EMAIL: ROLLANSFORTCJ@AOL.COM

SHEET TITLE:
"FAST TRACK" EVALUATION

PROJECT NAME:
MARK MORGAN
-MIDWAY LAKE ROAD -
IREDELL COUNTY, NORTH CAROLINA
MAY 2006

PROJECT NO.	06-110E
PROJECT MGR.	S.A.R.
DRAWN BY	S.A.R.
FIELD WORK	S.A.R.
SCALE	
BAR SCALE OR MAP	
FILE	G:\ARS\06-110E

Copy

ROLLANS *SOIL & ENVIRONMENTAL SERVICES*

2120 Graham Road, Mount Ulla, NC 28125 *Phone/Fax (704) 278 – 0989*

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
E-mail: Rollansfortcj@aol.com

Brady Freeman, Registered Sanitarian
Mobile: (704) 746-6497
E-mail: bfree209@yahoo.com

Attached is a proposed design for a (PPBPS) Septic System with gravity flow distribution out of a d-box for a 3 bedroom single family residence on 344 Midway Lake Road (.341ac), Iredell County, North Carolina.

Contents:

	Page
Information for the Installer	1
Design Information	
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Layout Specifications	5
Trench Detail	6
Site Plan/System Plan	7
Property Deed	8
House Floor Plans	9-10
Profile Descriptions	11-12

LICENSED SOIL SCIENTIST
Samuel A. Rollans
1231
STATE OF NORTH CAROLINA

6/2/05

June 2, 2005
Project No. 01-1114
Design By: Samuel A. Rollans, LSS

PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	Robert Morgan
	Attn: Mark Morgan
Address:	16505 Jetton Road
	Cornelius, NC 28031
Phone:	(704) 528 - 3818
County:	Iredell
Location:	344 Midway Lake Road
	Mooresville, NC 28115
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	360 gpd
System Flow:	On-Demand

Design Specifications

Drainfield Size:	200'
Loading Rate:	0.3 gpd/ft.^{2}
Backfill Material:	ASTM C33 Sand
Estimated Weight of Sand	33 tons
Trench Depth:	30 in.
Trench Width:	36 in.
Septic Tank Size:	1000
# of Panels	11/lateral X 4 laterals = 44
Estimated Supply Line Length:	20'
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	NA
Dosing Volume:	NA
Supply Manifold:	N/A
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	NA
Recommended Control Panel:	NA
Pressure Head:	NA
Friction Head:	NA
Elevation Head:	NA
Total Dynamic Head:	NA
Threaded Union:	NA
Gate Valves:	NA
Check Valves:	NA
Anti-Siphon Hole:	NA

Recommended Pump: NA

Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services

ROBERT MORGAN
GRAVITY PPBPS DESIGN

DESIGN FLOW:	360
SOIL APPLICATION RATE:	0.3 gpd/ft.^{2}
TOTAL AREA TRENCH BOTTOM:	600
TOTAL LATERAL LENGTH:	200
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	200
SUPPLY LINE LENGTH:	20
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	NA
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	NA
RECOMMENDED PUMP:	NA

LAYOUT SPECIFICATIONS / 344 MIDWAY LAKE ROAD

Project #: 01-1114

LAYOUT FOR 3 BEDROOM HOME

June 1, 2005

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		2.0			100.00		
INSTR. 1			102.00				
HOUSE CNR				3.20	98.80		
S. TANK				3.40	98.60		
1	*ORANGE*			***4.00***	***98.00***	***85***	***50***
2	*GREEN*			***4.60***	***97.40***	***65***	***50***
3	*ORANGE*			***5.00***	***97.00***	***60***	***50***
4	*GREEN*			***5.40***	***96.60***	***50***	***50***
5	ORANGE			5.90	96.10	40	0
6	YELLOW			6.50	95.50	25	0
					Total	325	200

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
SYSTEM	*200*	*0.3*	*MOD.*	*0.30*	*PPBPS*	*GRAVITY*
Partial Repair	125	N/A	MOD.	0.30	PPBPS	GRAVITY

Notes:

** TBM located on top of phone box (see site plan)

**TBM is assumed to be 100'

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**BS, HI, and FS indicate rod readings

**Repair not needed; lot recorded prior to 1983 (see attached deed)