Gravity 25% Reduction
FOR WASTEWATER TREATMENT

Owner: BO OF NC

Address: 249 Williamson Rd. STE 101
Mooresville, NC 28117
Phone: 704-696-2662
County: Iredell
Location: Winding Forest Subdivision Lot #22

Source of Wastewater Flow: 4 Bedroom Single Family Residence
Estimated Daily Wastewater Production: 480 gpd
System Flow: NA

Design Specifications

Drainfield Size: 480
Loading Rate: 0.25
Depth of Gravel in Trench: NA (25% reduction)
Gravel Size: NA (25% reduction)
Trench Depth: 36 in.
Trench Width: 36 in.
Septic Tank Size: 1000
Pump Tank Size: NA

Estimated Supply Line Length: 5
Supply Line Diameter: 3 in. SCH 40 PVC
Supply Line Volume: 0.87
Dosing Volume: NA
Supply Manifold: Drop Boxes
Supply Manifold Length: NA
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
NA
Check Valves: NA
Anti-Siphon Hole: NA
Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services.

WINDING FOREST SUBDIVISION LOT 22

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.25
TOTAL AREA TRENCH BOTTOM:	1440
TOTAL LATERAL LENGTH:	480
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	480
SUPPLY LINE LENGTH:	5
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	NA
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	NA

WINDING FOREST LOT 22

Project #: 01-1152

LAYOUT FOR 4 BEDROOM HOME

July 18, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
TANK		N/A	N/A				
HOUSE		N/A	N/A				
INSTR. 1			N/A				
1	***ORANGE***			***N/A***	***N/A***	***80***	***80***
2	***PINK***			***N/A***	***N/A***	***80***	***80***
3	***RED***			***N/A***	***N/A***	***80***	***80***
4	***BLUE***			***N/A***	***N/A***	***80***	***80***
5	***ORANGE***			***N/A***	***N/A***	***80***	***80***
6	***PINK***			***N/A***	***N/A***	***80***	***80***
7	BLUE			N/A	N/A	75	75
8	PINK			N/A	N/A	100	100
9	RED			N/A	N/A	103	103
10	ORANGE			N/A	N/A	62	62
					Total	**820**	**820**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***480***	***0.25***	***ACCEPT.***	***0.25***	***25% RED.***	**GRAVITY DISTRIBUTION**
Repair	340	0.25	*MOD.*	0.25	PPBPS	LOW PRESSURE

Notes:

** TBM NOT REQUIRED

**All measures in feet

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

**BS, HI, and FS indicate rod readings