LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	MID-ATLANTIC CUSTOM BUILDERS
Address:	P.O. BOX 3792 Mooresville, NC 28117
Phone:	704-202-5568
County:	Iredell
Location:	WATERTREE LANDING LOT 31
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	19.68

Design Specifications

Drainfield Size:	205
Loading Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Trench Depth:	36 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	124
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	21.58
Dosing Volume:	115.78
Supply Manifold:	N/A
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	1.04
Elevation Head:	14.90
Total Dynamic Head:	20.63
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 per lateral
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services

WATERTREE LANDING LOT 31
LP PPBPS

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	615
TOTAL LATERAL LENGTH:	205
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	200
SUPPLY LINE LENGTH:	124
TOTAL DYNAMIC HEAD:	20.63
MANIFOLD SIZE:	N/A
DOSING VOLUME:	115.78
PUMP TANK DRAW DOWN*:	5.5
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

WATERTREE LANDING LOT 31

Project #: 01-1430

LAYOUT FOR 3 BEDROOM HOME

February 6, 2008

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		4.7			100.00		
INSTR. 1			104.70				
HOUSE CNR				10.70	94.00		
P. TANK				14.80	89.90		
1	RED			3.20	101.50	35	35
2	ORANGE			4.00	100.70	51	51
3	BLUE			4.90	99.80	61	61
4	***BLUE***			***4.90***	***99.80***	***30***	***30***
5	***PINK***			***5.60***	***99.10***	***66***	***65***
6	***RED***			***6.60***	***98.10***	***60***	***60***
7	***ORANGE***			***7.90***	***96.80***	***50***	***50***
8	ORANGE			2.60	102.10	28	28
9	BLUE			3.60	101.10	42	42
					Total	**423**	**422**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
****System***	***205***	***0.3***	***MOD.***	***0.300***	***PPBPS***	***LOW PRESSURE***
Repair	217	0.3	MOD.	0.300	PPBPS	LOW PRESSURE

Notes:

** TBM located top of ground at EIP at corner of lot (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

LP PPBPS TAPSHEET -WATERTREE LANDING LOT# 31

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
4	***BLUE***	99.8	***30***	0.156	**0.41**	90	7
5	***PINK***	99.1	***65***	0.156	**0.41**	195	15
6	***RED***	98.1	***60***	0.156	**0.41**	180	14
7	***ORANGE***	96.8	***50***	0.156	**0.41**	150	12
							48
	total	**feet =**	**205**	**gal/min =**	**19.68**		
			Des. Flow	**360**			
			Pump Run=	**5.88**			
			soil LTAR	**0.3**			
			LTAR +5%	**0.315**			
			LTAR with mod.	**0.6**			
			LTAR with mod.. + 5%	**0.63**			

.156 equals 5/32 inch hole