LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: NANCY JAMGOCHIAN

Address: 8432 Timberlake Lane
Terrell, NC 28682
Phone: 704-578-5175
County: Iredell
Location: Lot 65 Shavender's Bluff

Source of Wastewater Flow: 4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow: 480
System Flow: 26.01923077

Design Specifications

Drainfield Size: 275
Loading Rate (gpd/ft.^{2}): 0.3
Depth of Gravel in Trench: NA (PPBPS)
Gravel Size: NA (PPBPS)
Trench Depth: 30 in.
Trench Width: 36 in.
Septic Tank Size: 1000
Pump Tank Size: 1000

Estimated Supply Line Length: 10
Supply Line Diameter: 2 in. SCH 40 PVC
Supply Line Volume: 1.74
Dosing Volume: 151.96
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: 0.18
Elevation Head: 5.00
Total Dynamic Head: 8.25

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

Lot 65 Shavender's Bluff
LP PPBPS

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	825
TOTAL LATERAL LENGTH:	275
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	266.6666667
SUPPLY LINE LENGTH:	10
TOTAL DYNAMIC HEAD:	8.25
MANIFOLD SIZE:	N/A
DOSING VOLUME:	151.96
PUMP TANK DRAW DOWN*:	7.2
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.*

Lot 65 Shavender's Bluff

Project #: 01-1802

LAYOUT FOR 4 BEDROOM HOME

April 18, 2013

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM					100.00		
INSTR. 1							
HOUSE CNR					107'		
P. TANK					106.4'		
1	RED				119'	23	23
2	ORANGE				118.5'	29	29
3	BLUE				117.8'	42	42
4	PINK				117.25'	51	51
5	RED				116.7'	55	55
6	***BLUE***				***106'***	***86***	***70***
7	***PINK***				***105.3'***	***83***	***70***
8	***RED***				***104.7'***	***73***	***70***
9	***ORANGE***				***104.2'***	***65***	***65***
10	RED				103.3'	47	47
11	ORANGE				102'	26	26
					Total	**580**	**548**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***275***	***0.300***	***MOD.***	***0.300***	***PPBPS***	***LOW PRESSURE***
Repair	273	0.300	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-LOT 65 SHAVENDER'S BLUFF

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
6	*BLUE*	106	*70*	0.156	**0.41**	210	16
7	*PINK*	106.5	*70*	0.156	**0.41**	210	16
8	*RED*	105.7	*70*	0.156	**0.41**	210	16
9	*ORANGE*	104.2	*65*	0.156	**0.41**	195	15
	total	**feet =**	**275**	**gal/min =**	**26.019231**		63

Des. Flow	**480**
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