ROLLANS ***Soil & Environmental Services, PA.***
P.O. 832, Mooresville, NC 28115 Phone: (704) 278-0989 Fax: (704) 278-0989

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
Email: rollans.ashley@yahoo.com

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

Attached is a proposed design for a 3BR Conventional Septic System with gravity distribution to a 3 bedroom single family residence in CL&T Sect 16 lot# 140 on Winding Shore Rd. Iredell County, North Carolina.

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June 29, 2010
Project #: 01-1628
Design By: Rollans Soil & Environmental Services

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: Keith and Janet Murrah

Address: 240 Winding Shore Rd.
Troutman, NC 28166

Phone: 704-375-9956

County: Iredell

Location: CL&T SEC. 16 LOT 140

Source of Wastewater Flow: 3 Bedroom Single Family Residence

Estimated Gallons Per Day Flow: 360

System Flow: EXISTING

Design Specifications

Drainfield Size: EXISTING

Loading Rate (gpd/ft.^{2}): EXISTING

Depth of Gravel in Trench: EXISTING

Gravel Size: EXISTING

Trench Depth: EXISTING

Trench Width: EXISTING

Septic Tank Size: EXISTING

Pump Tank Size: EXISTING

Estimated Supply Line Length: EXISTING

Supply Line Diameter: EXISTING

Supply Line Volume: EXISTING

Dosing Volume: N/A

Supply Manifold: N/A

Supply Manifold Length: N/A

Supply Manifold Volume: N/A

Recommended Float Controls: N/A

Recommended Control Panel: N/A

Pressure Head: EXISTING

Friction Head: EXISTING

Elevation Head: EXISTING

Total Dynamic Head: EXISTING

Threaded Union: N/A

Gate Valves: N/A

Check Valves: N/A

Anti-Siphon Hole: N/A

Additional Comments: Usable soil area and LTAR utilized for design based on existing approved system.

CL&T SEC. 16 LOT 140
LP PPBPS

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	EXISTING
TOTAL AREA TRENCH BOTTOM:	324
TOTAL LATERAL LENGTH:	54
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	EXISTING
SUPPLY LINE LENGTH:	EXISTING
TOTAL DYNAMIC HEAD:	EXISTING
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	EXISTING
SEPTIC TANK SIZE:	EXISTING
PUMP TANK SIZE:	EXISTING

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

CL&T SEC. 16 LOT 140

Project #: 01-1628

LAYOUT FOR 4 BEDROOM HOME

June 29, 2010

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
INSTR. 1			N/A				
HOUSE CNR				N/A	N/A		
P. TANK				N/A	N/A		
1	*Pink*	*(existing)*		*N/A*	*N/A*	*54*	*54*
					Total	**54**	**54**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*54*	*EXISTING*	*conv.*	*EXISTING*	*conv. Bed*	*Gravity*
Repair	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

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