Lot 566 The Farms Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.25
Primary System Type	**LP PPBPS**
No. Lines	4 (See Table)
Total Linear Feet	320
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	265' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	36 gpm
Elevation head	Approx. 17.3'
Pressure head	3.0'
Friction head	5.7'
20% Contingency	5.2'
Total Head	31.2'
Pump Requirements	36 gpm @ 31.2' of head To be designed by installer.
Maximum Dosing Volume	259.2 gal -1.9 doses/day @ design flow*
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.2 min.
Check Valve	Yes
Siphon Break hole	Yes
Repair System	**LP PPBPS**
Total Linear Feet	433
Repair Loading Rate	0.25

12" DRAW DOWN

VETO 20"

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	White	LPPPBPS	160	3.1				
2	System	Blue	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
3	System	Blue	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
4	System	Orange	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
5	System	Orange	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
6	Repair	White	LPPPBPS	76					
7	Repair	Blue	LPPPBPS	35					
8	Repair	Red	LPPPBPS	22					
9	Repair	Orange	LPPPBPS	30					
10	Repair	Blue	LPPPBPS	45					
11	Repair	Red	LPPPBPS	65	15.9				
						Total: 72	Total: 72 (1 in each panel turned up)		
				Total System: 320'					
				Total Repair: 433'					

Tank	Red	1500 gal (2 compartment)	14.4
Pump Tank	Red	1500 gal.	14.4
House	Blue		13.0

Note: Fill all minor gullies. Partial system and repair located behind lot on septic field easement 612-566A

S&ME

Health Dept Copy

To: Iredell County Environmental Health Department

From: Paul G. Penninger, LSS
Kathleen Saunders, LSSIT

RE: Farms Phase V – Crescent Resources, LLC – Lot 566 Fast Track

Date: March 7, 2007

Attached is the Fast Track information required to place Lot 566 Farms Phase 5 on your developer work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist the Iredell County Environmental Health Department (ICHD) with the site evaluation. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC rules. If the ICHD wishes to change tank locations, distribution devices, etc., this can be shown on the Improvement Permit.

All information and specifications were prepared in conjunction with the Fast Track Program for Iredell County and are for the use of Crescent Resources, LLC in acquiring permits under the Fast Track Program. All soil work has been approved by David Hinson of the Iredell County Health Department. It is ultimately the Iredell County Health Department's responsibility to verify all specifications before permitting and/or septic system installation.