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APPROVED NOV 06 2014



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LICENSED SOIL SCIENTIST
361 Ennis Rd.
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Reference: Data Sheet for 196 Gannett Rd., CL&T Sec.5 Lot 6
House Footprint: 70' x 90'
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2 (initial), 0.275 GPD/FT2 (repair)
Proposed System Type: PPBPS
Proposed Repair System Type: Pretreatment PPBPS
Distribution: Low Pressure-CVB
Flow per Orifice: 0.59 GPM
Orifice Size: 3/16"
System Flow: 37.2 GPM
Dosing Volume: 226.8 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 14.2'
Friction Head: 7.9'
Pressure Head: 2'
Total Dynamic Head: 24.1'
Supply Line Length: 250'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"
Proposed Trench Width: 24"

Line	Design Length	# of Panels	Actual Length	Elevation
White 1	**90'**	**21**	**100'**	**7.3'**
Pink 2	**90'**	**21**	**102'**	**7.8'**
Orange 3	**90'**	**21**	**102'**	**8.3'**
Blue 4			98'	8.8'
White 5			94'	9.8'
Pink 6			30'/60' (25%)	18.0'
Blue 7			60' (25%)	18.9'

Initial System: 270' **Repair System:** 222' @ 50%, 120' @ 25%
Pump Tank: 16.5' **House Corner:** 16.2' **Benchmark:** 5.6'

Comments:

The proposed house is marked in black flags. The current well is a bored well and will be abandoned and a new well drilled. We are proposing PPBPS for the repair system. Part of the repair will be in the 50' lake buffer. The portion that crosses into the buffer only gets 25% reduction credit. The tanks are currently shown on the right side of the house. If the final house configuration allows, the tanks could be switched to the left side. This lot was deeded prior to 1977, therefore, the lines can be 5' from the property lines. The system is laid out on 8' centers.

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More tanks to other side 704 400172

Curve	Radius	Length	Chord	Chord Bear.
C1	589.26'	82.23'	82.16'	N 00°03'40" E

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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 4636402660_
COUNTY: _Iredell_____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _L E Hartsell_____ APPLICATION DATE_____
ADDRESS: _196 Gannett Rd., Mooresville, NC_____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: _0.711 AC_____
LOCATION OF SITE: _196 Gannett Rd., CL&T Sec. 5, Lot 6_____ PROPERTY RECORDED: _12/2/1976____
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 5%	0-6	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		6-40	R C SBK	FR SS SP					
		40-48	R CL WSBK	FR SS SP					
2	LS 5%	0-8	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		8-38	R C SBK	FR SS SP					
		38-48	R CL WSBK	FR SS SP					
3	LS 5%	0-12	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		12-24	RBr C WSBK	FR SS SP					
		24-34	R C SBK	FR SS SP					
		34-48	R CL WSBK	FR SS SP					
4	LS 5%	0-8	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		8-42	R C SBK	FR SS SP					
		42-48	R CL WSBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	540 FT2	684 FT2
System Type(s)	PPBPS	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: ___M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4636 40 2066
DATE OF EVALUATION: ________
COUNTY: IREDELL

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	LS 5%	0-6	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		6-40	R C SBK	FR SS SP					
		40-48	R CL WSBK	FR SS SP					

COMMENTS: ________

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4636402660.000
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: L.E. Hartsell
ADDRESS: 196 Gallett Rd
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: 196 Gallett Rd
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut

APPLICATION DATE:
DATE EVALUATED: 11/5/19
PROPERTY SIZE: 0.711 ACRE
PROPERTY RECORDED: 12/2/1976
TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
6	LS 5%	0-8	BrSCL WSBK	FR, SS, SP	SOME YEL. MOTTLES FROM 32-48	48"	NA	NA	.275 IcHD SL
		8-28	RC/CL, SBK	FR, SS, SP					
		28-48	RC, ABK/SBK	FR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Ps	Ps
System Type(s)	PPBPs	PPBPs
Site LTAR	.3	.275

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Ps
EVALUATED BY: Shane Cashion
OTHER(S) PRESENT: Mike Atkinson, Gary Mobley

COMMENTS: