

MICHAEL ATHANAS & ASSOCIATES

LICENSED SOIL SCIENTIST

561 Ennis Rd.

Weddington, NC 28173

(704) 576-3887

Reference: Data Sheet for Lot 10; Nesting Quail Lane; Highland Ridge, Iredell County NC
House Footprint: 70'x60'
Building Setback: 35' Front/Rear, 25' Side,
Water Source: Private Well
Number of Bedrooms: 4/480 gpd
Pre-determined LTAR: 0.3 gpd/ft2 (ICHD)
Suggested System Type: PPBPS/ 9' center
Distribution: LP-CVB
Flow per Orifice: .59
Hole Size & Material: 3/16"
Number of Panels: 61
System Flow: 35.99 gal/min
Dosing Volume: 219.6 gal/dose
Pump Run Time: 6.10 min
Total Linear Footage: 267'
Trench Bottom Square Footage: 801 sq.ft
Elevation Head: 15.6'
Friction Head: 3.09'
Pressure Head: 2'
Total Dynamic Head: 20.69'
Supply Line Length: 125'
Proposed Trench Bottom Depth: 36"
Septic/ Pump tank size: 1000 ST, 1000 PT

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Line	Actual Length	Design Length	# of Panels	Elevation
Blue 1	30'			4.8'
White 2	**118'**	**100'**	**23**	**5.6'**
Blue 3	**112'**	**100'**	**23**	**6.7'**
Pink 4	**107'**	**67'**	**15**	**7.6'**
Orange 5	96'			8.5'
Blue 6	83'			9.1'
Green 7	51'			10'

Septic/Pump Tanks: 16.2'
Initial System: 267' of PPBPS
Septic Tank/Pump tank: 1000/1000gal
CVB: 5.6'
Repair System: 270' of PPBPS
Benchmark: 11.8' right corner of garage facing from road.

Comments: The purpose of the evaluation is to change the septic area slightly due to the gas line/electric line being installed in part of the original system area. The new septic area expanded slightly further down the hill. MA&A Inc, evaluated 2 auger borings in the lower area. The house is currently under construction in the location originally permitted. The installed gas line and electric line have been shown on the site plan. The septic area should not encroach within 5 feet of the gas/electric line. In the area of White 2 and Blue 3, there is a pile of fill that should be removed prior to installation. This area of fill is indicated on the site plan. The remainder of Pink 4 will be used as repair.

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LOT 10
0.74 AC.
WELL
70'
196.10'
SETBACK
118.76'
DRIVE
773.23' TOT.
S 84°18'54" W
200.00'
26.78'
120.61' CVR
Gas & Electric
Gas
Elec.
To Be Removed
DRIVE
0.57
0.10
Scale 1" = 40'
North
APPROVED MAR 03 2015

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

PROPERTY ID #: Lot 10; Highland Ridge
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED MAR 03 2015

OWNER: Adams Homes AEC LLC
ADDRESS: 3000 Gulf Breeze Parkway Gulf Breeze, FL 32563
PROPOSED FACILITY: 4-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: Lot 10; Nesting Quail Lane; Troutman,NC

APPLICATION DATE:
DATE EVALUATED: 2/11/2015
PROPERTY SIZE:0.74 Acres
PROPERTY RECORDED: 06/17/2014

WATER SUPPLY: ☐ Private ☐ Public * Well ☐ Spring ☐ Other
EVALUATION METHOD: Ξ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: Ξ 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	
AB 1	LS 8-9%	0"-10"	Fill			48"	Few to common Saporlite Inclusions 26"-48"	None	.3
		10"-17"	Br CL WSBK	SS SP FR SEXP					
		17"-26"	R C SBK	SS SP FR SEXP					
		26"-48"	R CL WSBK	SS SP FR SEXP					
AB 2	LS 8-9%	0"-3"	Br CL WSBK	SS SP FR SEXP	N/A	48"	Few to common Saporlite Inclusions 40"-48"	None	.3
		3"-16"	RBr SCL WSBK	SS SP FR SEXP					
		16"-40"	RBr C SBK	SS SP FR SEXP					
		40"-48"	R CL WSBK	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	801ft2	810ft2
System Type(s)	PPBPS	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS: