

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for Watertree Landing, Lot 66
House Footprint: 60 x 72'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.3 gpd/ft2, Repair .25gpd/ft2 (ICHD .25)
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure Manifold
Pressure Head: 2'
Flow per Tap: 5.48gpm
Tap Size & Material: ½ Sch. 80
System flow: 32.88
Dosing Volume: 175gal
Pump Run Time: 5.32 mins
Elevation Head: 8.85'
Pressure Head: 2'
Friction Head: 3.1'
Total Dynamic Head: 14'
Septic/Pump Tank: 1000gal
Supply Line Length: 125'
Proposed Trench Bottom: 30-36"

Line	Design Length	Actual Length	Elevation
Orange 1	**67'**	**75'**	**1.7**
Yellow 2	**67'**	**78'**	**2.9'**
White 3	**67'**	**77'**	**3.3'**
Blue 4	**67'**	**75'**	**4.1'**
Pink 5	**67'**	**70'**	**4.4'**
White 6	**67'**	**70'**	**4.7'**
Blue 7		70'	5.1'
Pink 8		92'	5.5'
White 9		92'	5.6'
Blue 10		86'	5.7'

Pink 11 70' 5.7'

Initial System: 400' **Repair System:** 410'
Pump Tank: 5.55' **House Corner:** 5.18 (Right Rear Corner)

Comments:
The purpose of this evaluation was to change the house size and add a pool. This lot is currently permitted by ICHD at .25 LTAR, MA&A has performed a full soil evaluation and we have decided to locate the initial area on the high side of the lot and the repair on the low side of the lot, please note this is opposite of how it is currently permitted. Please note the pool is marked in yellow pin flags and the 100 foot well radius is marked in orange pin flags not to be confused with septic laterals. The house is marked with nails and pink flagging.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4626009754
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: _Lake Luxury Homes Inc._ APPLICATION DATE_____
ADDRESS: ___Mooresville NC_____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: __0.69 AC_____
LOCATION OF SITE: _Watertree Landing lot 66_____ PROPERTY RECORDED: _2/27/2008___
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) .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
P 1	LS 10%	0-25	R C SBK	FR SS SP	N/A	48""	Few SAP Few Rock	N/A	PS 0.3
		25-48	R CL WSBK	FR SS SP					
P 2	LS 7%	0-6	Br SCL WSBK	FR SS SP	N/A	51"	F-C SAP	N/A	PS 0.3
		6-25	R C SBK	FR SS SP					
		25-40	R C WSBK	FR SS SP					
		40-51	R CL WSBK	FR SS SP					
P 3	LS 5%	0-37	R C SBK	FR SS SP	N/A	57"	N/A	N/A	PS 0.3
		37-57	R CL WSBK	FR SS SP					
P 4	LS 2%	0-22	FILL		N/A	60"	Few SAP	N/A	PS 0.3-0.25
		22-60	BrR C SBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	1240 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3	0.25

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

COMMENTS: _____

APPROVED JUL 0 7 2014
AP

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4626009754
DATE OF EVALUATION: _____
COUNTY: IREDELL

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	LS 7%	0-21	R C SBK	FR SS SP	N/A	40"	F-C SAP	N/A	PS 0.3
		21-40	R CL WSBK	FR SS SP					
		40-44	SL SAP M	VFR SS SP					
		44	AR						
P 2	A2P	0-6	B SCL G-	Fr SS SP SE-P		45"	-	-	-.3
		6-27	R C MFABK/SBK	Fr SS SP SE-P					
		24-45	R CL MFSBK	Fr SS SP SE-P	Com Sap				
P 4		0-18	Fill/compacted						
		18-50	R C MFSBK	Fr S P SE-P	few Mn				-.275

COMMENTS: _____

APPROVED JUL 07 2014

ALP



LEGEND

House Box.

System lines.

Repair lines.

GRAPHIC SCALE
1" = 40'

40 0 40 80

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES.
THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

PLEASE REFER TO ATTACHED SOIL REPORT FOR ADDITIONAL SITE SPECIFIC INFORMATION

ROLLANS SOIL & ENVIRONMENTAL SERVICES
470 NORTH BROAD STREET SUITE D
MOORESVILLE, NC 28115
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BRADY FREEMAN, NCSS
MOBILE: (704) 746-1449
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ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746-1486
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MAP TITLE: SITE PLAN & DRAINFIELD AREAS

PROJECT NAME: WATERTREE LANDING SUBDIVISION

LOCATION/DATE: IREDELL COUNTY, NORTH CAROLINA NOV 2009

JOB # : 01-1430
FILE: G:\JOBS\01-1430
PROJECT MGR.: C.B.F.
FIELD WORK: C.B.F., A.L.P. & M.D.B.
DRAWN BY: C.B.F. & M.D.B.

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ____ of ____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

1 of 66 WATERTREE

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
A	1 SS 0-5%	0-10	BSCL wk/ wsbk fr	SS,SP,Fr SEXP					
		10-25	RC wksbk	fr: SS,SP,SEXP					
		25-57	RCL wsbk	fr: SS,SP,SEXP					
				(com. WR)	—	57	—	—	3
B		0-12	Fill		—				
		12-16	B SCL Gr	SS,SP,Fr SEXP		56	—	—	
		16-56	RC WFSBK	SS,SP,Fr SEXP					.275
C		0-6	B SCL Gr	SS,SP,Fr SEXP	—				
		6-18	RB C WFSBK	S, P, Fr SEXP		184	PS	—	PS
		18-62	Var Cgr SL Sap Mass	NS,NP,Fr-Fr NSXP	com RCL inch few Loamy clay veins				
				com WR incl, <50%					.25
D		0-5	BSCL Gr	fr: SS,SP,SEXP					
		5-24	RC wksbk	fr: SSSP SEXP	few NBs				
		24-53	RCL wsbk	fr: SSSP SEXP	—	53	—	—	.275
				few SAP					

COMMENTS: _____