

APPROVED AUG 0 6 2014

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

Reference: Data Sheet for Waters Edge SD, Lot 2; 119 Perrin Dr.
House Footprint: See attached plan
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.275 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: Limited (deeded 1979)
Distribution: Pressure manifold
Flow per Tap: 4 @ 7.11 GPM, 3 @ 5.48 GPM
Tap Size and Material: 4-1/2" SCH 40, 3-1/2" SCH 80
System Flow: 44.88 GPM
Dosing Volume: 225 gallons
Pump Run Time: 5 minutes
Elevation Head: 12.3'
Friction Head: 7.3'
Pressure Head: 2'
Total Dynamic Head: 20'
Supply Line Length: 185'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length	Elevation
White 1	72'	72'	4.7'
Yellow 2	50'	50'	3.8'
Orange 3	50'	50'	3.7'
Blue 4	50'	62'	3.8'
Pink 5	72'	72'	4.3'
White 6	72'	72'	4.7'
Orange 7	72'	72'	5.4'

Initial System: 438' **Repair System:** Limited
Pump Tank: 11.0' **House Corner:** 10.2' **Benchmark:** 6.1'

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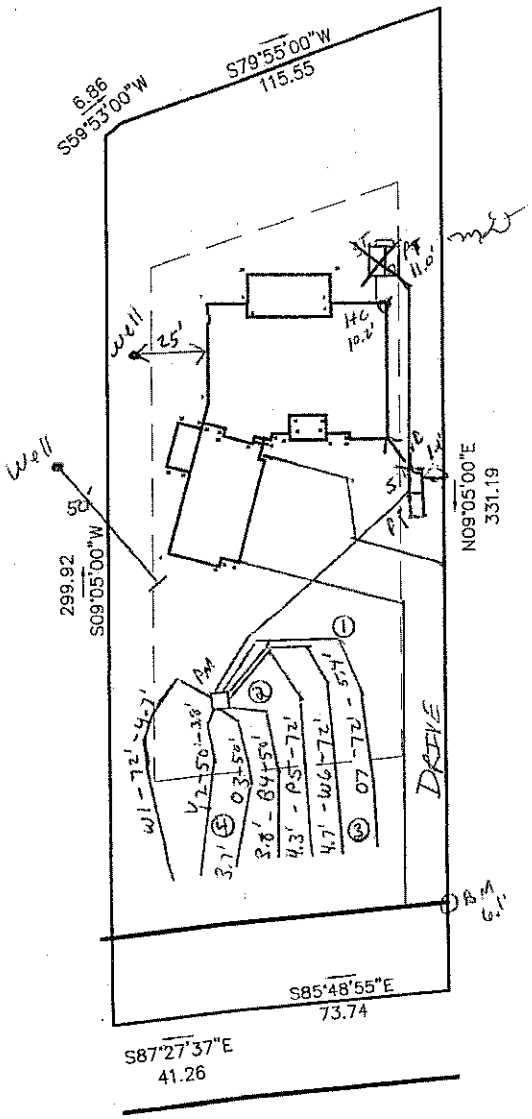
Comments:

This lot was deeded in 1979. There is no repair area required. The supply line must be 30" below the driveway or sleeved. The ½" SCH 40 taps will feed W1, P5, W6, and O7. The ½" SCH 80 taps will feed Y2, O3, and B4.

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I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book_____, page_____, and/or plat book_____, page_____, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C. my hand and seal on the _____, day of _____, A.D. 20_____.

_____
WILLIAM M. ALLEN, PLS





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ALP

PLOT PLAN SURVEY
OF
LOT 2 WATERS EDGE

SCALE 1" = 50'

ACQUIRED BY:

FIELD BOOK:
FILE:
DC FILE:
TAX MAP NO:

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

Sheet _1_ *of* _1_
PROPERTY ID #: 4645660261_
COUNTY: _Iredell_____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _Dale Downer_____ APPLICATION DATE_____
ADDRESS: _7608 Dundmuir Ct., Cornelius, NC_____ DATE EVALUATED: _____
PROPOSED FACILITY: __4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: _0.83 AC_____
LOCATION OF SITE: _Waters Edge Lot 2, 119 Perrin Ln_____ PROPERTY RECORDED: _10/3/1979_____
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 7%	0-24	R C SBK	FR SS SP	N/A	48"	Com SAP	N/A	PS 0.3
		24-48	R CL WSBK	FR SS SP					
2	LS 3%	0-4	Br SCL WSBK	FR SS SP	N/A	48"	Few SAP	N/A	PS 0.275-0.3
		4-45	R C ABK	FR SS SP					
		45-48	R CL WSBK	FR SS SP					
3	LS 5%	0-5	Br CL WSBK	FR SS SP	Lithochromic colors	48"	N/A	N/A	PS 0.275-0.3
		5-48	R C ABK	FR SS SP					
4	LS 3%	0-4	Br SCL WSBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3+
		4-30	R C SBK	FR SS SP					
		30-48	R CL WSBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1308 FT2	Limited
System Type(s)	25% Reduction	
Site LTAR	0.275	

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

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AZ-P

COMMENTS: _____