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

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Falls Cove Dev. APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: _____
LOCATION OF SITE: LOT #668 Falkwood SD OFF Mercer Farm Rd, PROPERTY RECORDED: _____
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 REDOX HORIZ	
1	N/L 4-8% 89.0	0-17	Mo, sbk, C	Fr, SS, SP (Red)					PS <28", 0.30 >28", 0.35
		17-28	Mo, sbk, CL	Fr, SS, SP (Lt. Red) C-SAP					
		28-54	Mass. L-SAP	Fr, SS, SP (Yell-Red)					
2		0-7	Mo, sbk, SK/SCL	Fr, SS, SP					0.30
		7-28	Mo, sbk, R C	Fr, SS, SP					
		28-44	WK, sbk, R CL	Fr, SS, SP C-M-Sap Incl. Lor.					
		44-55	Mass, SK/L-Sap	Fr, SS, NP/SP					
3		0-2	Gr, AB L	Fr, SS, SP					0.30
		2-24	Mo, sbk, R C	Fr, SS, SP					
		24-48	WK, sbk, R CL	Fr, SS, SP C-Sap Inclus. Quartz vein					
		48-55	Mass, L-Sap	Fr, SS, SP F-CL Pockets					
4		0-20	Mo, sbk, R C	Fr, SS, SP F-Sap					0.30
		20-35	WK, sbk, R CL	Fr, SS, SP C-M Sap					
		35-54	Mass, L-Sap	Fr, SS, NP F-CL Pockets					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____

Lance D Schamback, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description and/or Map Book: 24 , Page 12). That the boundaries not surveyed are clearly indicated as drawn from information as shown survey; that the ratio of precision as calculated is 1: 10,000+ that this plat was prepared in accordance with G.S. 89-C as amended. Witness my original signature, registration number and seal this 11 day of February, A.D. 2015.

Lance D Schamback, PLS
LICENSE NUMBER: L-4295

NORTH CAROLINA PROFESSIONAL SEAL L-4295 LAND SURVEYOR LANCE D. SCHAMBACK

Lake Norman

Lake Norman | Pier Zone | Lake Norman

#4 Rebar Found Flush On Line 6 12'

760 Contour

#4 Rebar Found Flush On Line 6 06'

50' Setback

50' From 760 Contour

10' Drainage & Utility Easement

Notes

1) This property may be subject to any Easements, Rights-of-way, and/or Restrictive Covenants.
2) Boundary information based on Plat Book: 52 at Page: 43 as recorded in the Iredell County Register of Deeds
3) This survey is of an existing parcel or parcels of land.
4) No N.C.G.S. or U.S.G.S. Monuments could be located within 2000'.
5) Area by coordinate method.

Legend

R/W = Right-of-way
I P S = #4 Rebar Set
= Not to scale
CP = Calculated Point
= Cable Pedestal
= Water Valve
= Utility Pole
= Yard Inlet
= Fire Hydrant

Lot 667

Lot 669

Foundation

Deck

Lot 668
43,430 Sq. Ft.
0.99 Acres

Flow Divide

Ditch

15' Setback

30' Setback

N79°16'23"E 307.38

S78°00'08"W 304.44

N28°34'50"W 82.70

#4 Rebar Found Flush

#4 Rebar Found Flush

#4 Rebar Found Flush

C1

Park Crest Dr.
45' Public R/W

N53°23'36"W 356.34 fm

N58°44'35"W 395.21 fm

Lot 670

PB 52, PG 43

LINE TABLE

LINE	LENGTH	BEARING
L1	10.64	S11°17'56"E
L2	31.09	S23°54'18"E
L3	21.94	S07°43'08"E
L4	42.85	S00°05'08"W
L5	28.77	S12°27'17"E

CURVE TABLE

CURVE	LENGTH	RADIUS	BEARING	CHORD

GRAPHIC SCALE

60 0 30 60 120

Falls Cove Lot 668 Fast Track Septic Spec Sheet

Number of Bedrooms	**4**
Basement or Crawl	**Basement with Plumbing**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	5 (See Table)
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Max Trench Depth	30"
Pump Required	Yes
Distribution Device	Pressure Manifold with Flow Divider
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	180' of 2" SCH 40 PVC
Flow Rate through the system	22 gpm
Elevation head	Approx. 30.3'
Pressure head	2.0'
Friction head	2.3'
20% Contingency	6.9'
Total Head	41.5'
Pump Requirements	22 gpm @ 41.5' of head To be designed by installer.
Maximum Dosing Volume	240 gal -2.0 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. 10.9 min.
Repair System	**LP PPBPS**
Total Linear Feet	302
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation (Ft.)
1	Repair	Blue	LP PPBPS	59	3.8
2	Repair	Orange	LP PPBPS	105	
3	Repair	Pink	LP PPBPS	94	
4	Repair	Blue	LP PPBPS	44	
5	System	Pink	25% Reduction	50 endfed	
6	System	Orange	25% Reduction	50 endfed	
7	System	Blue	25% Reduction	100 endfed	
8	System	Red	25% Reduction	100 endfed	
9	System	Pink	25% Reduction	100 endfed	12.1
				Total System: 400'	
				Total Repair: 302'	

Tank	Red	1000 gal (2 compartment)	28.1
Pump Tank	Red	1000	
House	Blue		

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	4
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: **All rod readings should be verified by installer prior to installation**
Can use 1500 gallon tanks if preferred.
Fill in ditches around initital system area