THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 518 Fort Dobbs Road

Date: September 27, 2016

Attached is the septic specification information required to permit 518 Fort Dobbs Road for an Improvement Permit and/or Construction Authorization Permit in Iredell County via the Expedited Review Process.

The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the ICHD with permitting. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC Rules, which these specifications are in accordance with. If the ICHD wishes to change tank locations, distribution devices, etc they may do so at their discretion.

All information and specifications have been prepared in conjunction with ICHD permitting guidelines for the current lot owners to acquire an Improvement Permit and/or Authorization to Construct on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or septic system installation.



Kathleen Saunders

518 Fort Dobbs Road Fast Track - The Oaks Group, PA

Number of Bedrooms	**5**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**600**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	5 (See Table)
Total Linear Feet	500
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Distribution Box
Tank Size	1500 gallon tank
Max Trench Bottom Depth (Low Side)	~~18"~~ 35" KMS
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	360
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	**System**	**Pink**	**25% Reduction**	**100 endfed**
2	**System**	**Orange**	**25% Reduction**	**100 endfed**
3	**System**	**Red**	**25% Reduction**	**100 endfed**
4	**System**	**Blue**	**25% Reduction**	**100 endfed**
5	**System**	**Pink**	**25% Reduction**	**100 endfed**
6	Repair	Red	LP PPBPS	54
7	Repair	Blue	LP PPBPS	72
8	Repair	Orange	LP PPBPS	70
9	Repair	Pink	LP PPBPS	90
10	Repair	Red	LP PPBPS	74
				Total System: 500'
				Total Repair: 360'

Note: Keep proper setbacks to foundation drains
Distribution devices and tank locations can be altered at ICHD's discretion
Tanks must be set to achieve gravity flow once final foundation placement is set
Remove berms in septic areas to prevent ponding

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R 54' Rep
B 72' Rep
D-70' Rep
P-90' Rep
R-79' Rep
125'
Drive
House
75'
55'
55'
40'
Lean-to
DB
P
D
100'
100'
100'
100'
#1
#2
#3
Strave
berm
1"=50'
N

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

Sheet 1 of 2
PROPERTY ID #:
COUNTY: Iredell

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

OWNER: Bob Cline
ADDRESS:
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 600
LOCATION OF SITE: 518 Ft Dobbs Statesville
APPLICATION DATE: 9/27/16
DATE EVALUATED: 9/23/16
PROPERTY SIZE: 1.49
PROPERTY RECORDED: post 81
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
1	L ~5%	0-15	Mo SBKC	FR SS/SP	R				
		15-30	WK SBKCL	↓	R; C Sap				
		30-52	MA SCL Sap	FR SS/NP	R yel; F/C inc	30"	PS	N/A	0.3
2	L ~5%	0-25	Mo SBKC	FR SS/SP	R				
		25-35	WK SBKC	↓	R; F/C Sap				
		35-48	WK SBKC	↓	R; C/M Sap & M	48"	N/A	N/A	0.3
3	L	0-35	Mo SBKC	FR SS/SP	R				
		35-53	WK SBKCL	↓	R yel; C Sap	53"	N/A	N/A	0.3
4	L ~5%	0-35	Mo SBKC	FR SS/SP	R				
		35-50	WK SBKC	↓	R; F/C Sap	50+	N/A	N/A	0.3

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% Red	LPPBPS
Site LTAR	0.2	0.3

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): P/S
EVALUATED BY: KMS
OTHER(S) PRESENT: ERH

COMMENTS:

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

Sheet 1 of 2
PROPERTY ID #:
COUNTY:

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

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: _____ 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 RESTR HORIZ	
5	L	0-40	mod SBK C	FR ss/sp	R	45+	N/A	N/A	0.3
		40-45	wk SBK C	↓	R; F Sap				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% Red	LPPPBPS
Site LTAR	0.3	0.3

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

APPROVED OCT - 7 2016

COMMENTS: _____

Updated February 2014

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

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

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

OWNER: Amy Colandrea
ADDRESS: 1374 Fourth Creek Landing Dr. Statesville
PROPOSED FACILITY: 5BR House
PROPOSED DESIGN FLOW (.1949): 600 GPD
LOCATION OF SITE: Dobbs Valley Ph II 518 Ft. Dobbs Rd.
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE 9-8-16
DATE EVALUATED: 10-5-16
PROPERTY SIZE: 1.492
PROPERTY RECORDED: Yes

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
1 Near AH #2	Shoulder Linear 6%	0-7	BR. SCL v.weak SBK	SL Fr, SS,SP,Scap	—	48	—	—	0.3 PS
		7-32	R. Clay w. SBK	SL Firm, SS,SP,Scap					
		32-48	Clay Loam. w. SBK Trace Saprolite	SL Friable, SS,SP,SP					
	* Evaluated Hole #1 = Combination of Clay Loam + Sandy Saprolite 30"-48" (OH) w/SBK cl								
2 Next to AH #1	Shoulder/ Sideslope Linear 5%	0-7	Br. SCL V. weak SBK	SL Fr, SS,SP,Scap	—	48	—	—	0.3 PS
		7-35	Clay w/ SBK	SL Firm, SS,SP,Scap					
		35-48	CL w. SBK some saprolite	SL Friable, SS,SP,Scap					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	500+	335+
System Type(s)	25% reduction	50% LPP/BB
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Tom Shuck
OTHER(S) PRESENT: Kathleen Saunders + Emma Helton

COMMENTS: ___