ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 (3)

PERMIT # 313598

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4638 -28 -5903

APPLICANT/OWNER: Woodbridge Partners APPLICANT ADDRESS: PO Box 3608 Mooresville 28117

SITE ADDRESS: 546 Kenway Loop Mooresville NC 28117 PHONE: - ALT. PHONE 704 578 4951

SITE DIRECTIONS: Perth, Fern Hill, Bayly R Kenway on R SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Fern Leaf SECTION: 2 LOT # 4 LOT AREA: .716 Acres DESIGN FLOW: 480 L.T.A.R. .30

Septic Tank	1000	(gal)	STB	768	Date	2-10-22.	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	
Pump Tank	1000	(gal)	PT	363	Date	2-21-22	System Description:	LP - HPPBP			
Pump Make			Model		Serial #		Repair System Description:	LP. HPPBP			
# Nitrification Fields	1		# Lines	3	Linear Ft	270	Maintenance Agreement Required:	☒ YES	☐ NO		
Trench Width	36		Trench Bottom Depth	24 inches	Gravel Depth			☐ GRAVITY	☒ PRESSURE		

☒ Residence	No. Bedrooms	4	Water Supply	
☐ Business	No. Persons	8	☒ Private	
☐ Other	No. Employees		☐ Public	
☐ Slab	☒ Crawl Space		☐ Community	
☐ Basement w/ plumbing	☐ Basement w/o plumbing			

Comments / Conditions: Increase Pipe Size as necessary for Larger Sizes

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

The Odeo Group PA

LSS # 1313 Dated July 14, 2021

AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

3/30/22 - Lines / Tanks ✓ Landscape Final for Tanks needed BB

BCW 4-13-2022 - FLOATS, ALARM, ELECTRICAL, PRESSURE, HEAD, CUB

Permit can be suspended or revoked if any false information is supplied toward securing the permit, any unauthorized changes are made to the site, any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☒ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☒ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: [signature] Date: [illegible] stalled by: Abernathy

IMPROVEMENT PERMIT by: Benjamin A Bell Date: 7/23/2021 PERATION PERMIT by: D. Mebey Date: 4/20/22

HORIZATION TO CONSTRUCT by: Benjamin A Bell Date: 7/23/2021 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 313598

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4638 -28 -5903

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SITE DIRECTIONS: Perth, Fern Hill, Bayby R Kenway on(R) SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Fern Leaf SECTION: 2 LOT # 4 LOT AREA: .716 Acres DESIGN FLOW: 480 L.T.A.R.: .30

Septic Tank 1000 (gal)	STB	Date	☒ New System ☐ Repair ☐ Expansion System Type: I II III (IV) V VI		☒ Residence	No. Bedrooms 4	Water Supply	
Pump Tank 1000 (gal)	PT	Date	System Description: LD - HPPBPS		☐ Business	No. Persons 8	☒ Private	
Pump Make	Model	Serial #	Repair System Description: LD. HPPBPS		☐ Other	No. Employees	☐ Public	
# Nitrification Fields 1	# Lines 3	Linear Ft 270	Maintenance Agreement Required: ☒ YES ☐ NO		☐ Slab	☒ Crawl Space	☐ Community	
Trench Width 36	Trench Bottom Depth 24in max	Gravel Depth	☐ GRAVITY ☒ PRESSURE		☐ Basement w/ plumbing	☐ Basement w/o plumbing		

Comments / Conditions: Increase Pipe Size as necessary For Large Sizes

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

The Oaks Group PA

LSS # 1313 Dated July 19, 2021

AS BUILT SKETCH

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Owner / Applicant Signatur [signature] Date: stalled by:

IMPROVEMENT PERMIT by: [signature] te: 7/23/2021 PERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: [signature] Date: 7/23/2021 Existing System Inspected by: Date:

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ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 313598

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

(3)

PIN # 4638 -28 -5903

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SITE ADDRESS: 546 Kenway Loop Mooresville NC 28117 PHONE: - ALT. PHONE 704 578 4951

SITE DIRECTIONS: Perth, Fern Hill, Baby R Kenway on R SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Fern Leaf SECTION: 2 LOT # 4 LOT AREA: .716 Acres DESIGN FLOW: 480 L.T.A.R.: .30

Septic Tank 1000 (gal)	STB 769	Date 2-10-22.	☒ New System ☐ Repair ☐ Expansion System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms 4	Water Supply
Pump Tank 1000 (gal)	PT 365.	Date 2-21-22.	System Description: LP - HPPBPS	☐ Business	No. Persons 8	☒ Private
Pump Make	Model	Serial #	Repair System Description: LP- HPPBPS	☐ Other	No. Employees	☐ Public
# Nitrification Fields 1	# Lines 3	Linear Ft. 270	Maintenance Agreement Required: ☒ YES ☐ NO	☐ Slab	☒ Crawl Space	☐ Community
Trench Width 36	Trench Bottom Depth 24 in max	Gravel Depth	☐ GRAVITY ☒ PRESSURE	☐ Basement w/ plumbing	☐ Basement w/o plumbing	

Comments / Conditions: Increase Pipe Size as necessary For Larger Cisna

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The Oaks Group PA

LSS # 1313 Dated July 19, 2021

AS BUILT SKETCH

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3/30/22 - Cisna / Tanks ✓ Landscape Final for Tanks needed. BB

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ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 313598

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Septic Tank 1000 (gal) STB Date

Pump Tank 1000 (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 3 Linear Ft 270

Trench Width 36 Trench Bottom Depth 24 in max Gravel Depth

☒ New System ☐ Repair ☐ Expansion System Type: I II III (IV) V VI

System Description: LP - HPPBPS

Repair System Description: LP. HPPBPS

Maintenance Agreement Required: ☒ YES ☐ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 4

☐ Business No. Persons 8

☐ Other No. Employees

☐ Slab ☒ Crawl Space

☐ Basement w/ plumbing ☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Increase Pipe Size as necessary For Larger Lines

INITIAL SITE SKETCH

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The Oaks Group PA

LSS # 1313 Dated July 19, 2021

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AUTHORIZATION TO CONSTRUCT by: Benjamin A Bell Date: 7/23/2021 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

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

Sheet ___ of ___
PROPERTY ID # ___
COUNTY ___

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

OWNER: Woodbridge Partners
ADDRESS: PO Box 3608 28117
PROPOSED FACILITY: SFR
LOCATION OF SITE: Lot 4 Fern Leaf
PROPOSED DESIGN FLOW (.1949): 480
APPLICATION DATE ___
DATE EVALUATED: 11/5/2020
PROPERTY SIZE: 0.72
PROPERTY RECORDED: yes

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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LN 4%	0-30	Mo SBK C	FR SS/SP	R	46"	PS	N/A	0.3
		30-46	WK SBK CL	↓	R, C sap				
		46-48	MA L Sap	↓	Multi				
2	L 4%	0-36	Mo SBK CL	FR SS/SP	R; F sap	48+	N/A	N/A	0.35
		36-48	WK SBK CL	↓	R; C sap				
3	L 4%	0-30	Mo SBK CL	FR SS/SP	R; F sap	40"	PS	N/A	0.35
		30-40	WK SBK CL	↓	R; C sap				
		40-48	MA L Sap	↓	Multi				
4	L 4%	0-31	Mo SBK C	FR SS/SP	R	49"	N/A	N/A	0.3
		31-49	WK SBK CL	↓	R; C sap				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	H IV	H IV
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1943): ___
EVALUATED BY: ___
OTHER(S) PRESENT: ___

COMMENTS: 24" TB

LICENSED SOIL SCIENTIST
KATHLEEN M. SAUNDERS
STATE OF NORTH CAROLINA
1313

Kathleen Saunders

Updated February 2014

Fernleaf Lot 4 Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**HLP PPBPS**
No. Lines	3 (See Table)
Total Linear Feet	270
Trench Width	3'
Trench Spacing	9'
Max Trench Depth	24"
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	100' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	31 gpm
Elevation head	Approx. 10.2'
Pressure head	3.0'
Friction head	1.8
20% Contingency	3.0'
Total Head	18'
Pump Requirements	31 gpm @ 18' of head To be designed by installer
Maximum Dosing Volume	223.2 gal -2.2 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. 7.2 min
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	364
Repair LTAR	0.3
Repair Trench Depth	24"

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	Pink	LPPPBPS	55	2.94				
2	System	Orange	LPPPBPS	70 endfed	3.28	16	16	1 per panel	5/32"
3	System	Red	LPPPBPS	100 endfed	3.52	23	23	1 per panel	5/32"
4	Repair	Orange	LPPPBPS	70	3.93				
5	System	Pink	LPPPBPS	100 endfed	4.06	23	23	1 per panel	5/32"
6	Repair	Pink	LPPPBPS	54	4.06				
7	Repair	Orange	LPPPBPS	110	4.32				
8	Repair	Red	LPPPBPS	75	5.38				
						Total: 62	Total: 62 (1 in each panel turned up)		
				Total System: 270'					
				Total Repair: 364'					

Tank	Red	1000 gal (2 compartment)	
Pump Tank	Red	1000 gal.	7.1
House	Blue		

Notes: Tanks and distribution devices can be altered at ICHD discretion
Keep foundation drain 25 ft from septic lines

THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 546 Kenway Loop

Date: July 19, 2021

Attached is the septic specification information required to permit 546 Kenway Loop for an Improvement Permit and/or Construction Authorization Permit in Iredell County via the Session Law 14 permitting process.

The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the Iredell 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 before permitting and/or septic system installation. The site contains highly variable soils; there may be soil features present that were not encountered during the evaluation.

The LSS Evaluation attached to this application is to be used to produce design and construction features for permitting in accordance with SL 2018-114 Section 11.(c). The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 11.(c). The LSS Evaluation contains sufficient information to produce design and construction features for an IP/CA, and the LSS contains the proper insurance with the proper coverage.

LICENSED SOIL SCIENTIST
KATHLEEN M. SAUNDERS
1313
STATE OF NORTH CAROLINA

Kathleen Saunders