



OPERATION PERMIT

Franklin County Health Department
107 Industrial Drive
Louisburg, NC 27549
Phone:

For Office Use Only

*CDP File Number 416704 - 1
County ID Number: _____
Evaluated For: A2

Property Owner: Ken Harvey Homes LLC

Owner Address: 4909 Unicon Drive

City: Wake Forest

State/Zip: NC/ 27587

Phone #:

Address: 10 Gambel Dr
Youngsville, NC 27596

Road #:

Township:

Subdivision: Sorrell Oaks

Phase : NEW Lot: 76

Structure: SINGLE FAMILY

of Bedrooms: 4

of People: 6

Water Supply: COMMUNITY

Saprolite System?: ☐ Yes ☒ No

Pump Required?: ☒ Yes ☐ No

Design Flow: 480

System Classification/Description: TYPE III B. SYSTEM
W/SINGLE EFFLUENT PUMP

Installer: DBS + Sons

Certification #:

Specific System HORIZONTAL PPBPS

Installed:

Septic Tank Date: 03/26/2025

STB: 502

Pump Tank Date: 08/26/2024

PT: 2124

Comments:

This system has been installed in compliance with applicable NC General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the Improvement Permit and Construction Authorization.

PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with Rule .1301.

II. Monitoring: As required by Rule .1301.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

Other:

Subsurface Operator Required: ☐ Yes ☒ No

If yes, see attached sheet for additional operation conditions, maintenance and reporting.

Operation:

Other:

Authorized State Agent: Leonard, Shad

Date of Issue: 05/06/2025

Owner/Applicant: _____



File # 416704 PIN# _____

Property Address: 10 Gambel Dr

Applicant or Owner Name: Lisa Ferguson

Environmental Health Septic/Well Permit Diagram

Building permits cannot be issued nor should construction begin without Construction Authorization issuance.

☒ Septic Improvement Permit ☒ Septic Construction Authorization (CA) ☐ CA Reissue** ☒ As Built
☐ Well Construction Authorization ☒ Additional Diagram/Specifications Attached *See Attached*

Diagram Date**: 7-29-24 EHS: Shad Jensen

**Any previously dated CA diagram is revoked and/or invalid. Confirm this is the valid diagram for the site before beginning any construction.

Installation/grouting inspections may be scheduled the day before, or, the day of installation until 9am by contacting the Environmental Health office at 919 496 8100. A revisit fee may apply if installation is not ready for inspection at the time requested. Septic Operations Permits will be issued after installation is approved, all permits conditions are met, and any outstanding fees are paid. Well Certificate of Completion will be issued after well head approval, all permit conditions are met, and any outstanding fees are paid.

Septic Tank 1000 Pump Tank 1300 Drainfield 3'x273' Type System Pump to Horizontal Panel B Max Trench Depth 30'
Septic Contractor DBT Seals Septic/Pump tank dates DB 1000 3-26-18 Pump Fee Paid pd. 5/5 (H)
Well Contractor _____ Well Head Date: _____ Pump Final: _____ N/A (circle)

- I.P. + C.A. issued under 'a2' rules
- See attached packet from CCSC.

*✓ d Tanks, lines, pump, + Alarm
5-2-25 see
* Pool not in place or
marked on ground at
time of septic inspection
* Need to pay pump fee*

*Horizontal
Panel Block
Pump to B. manifold*

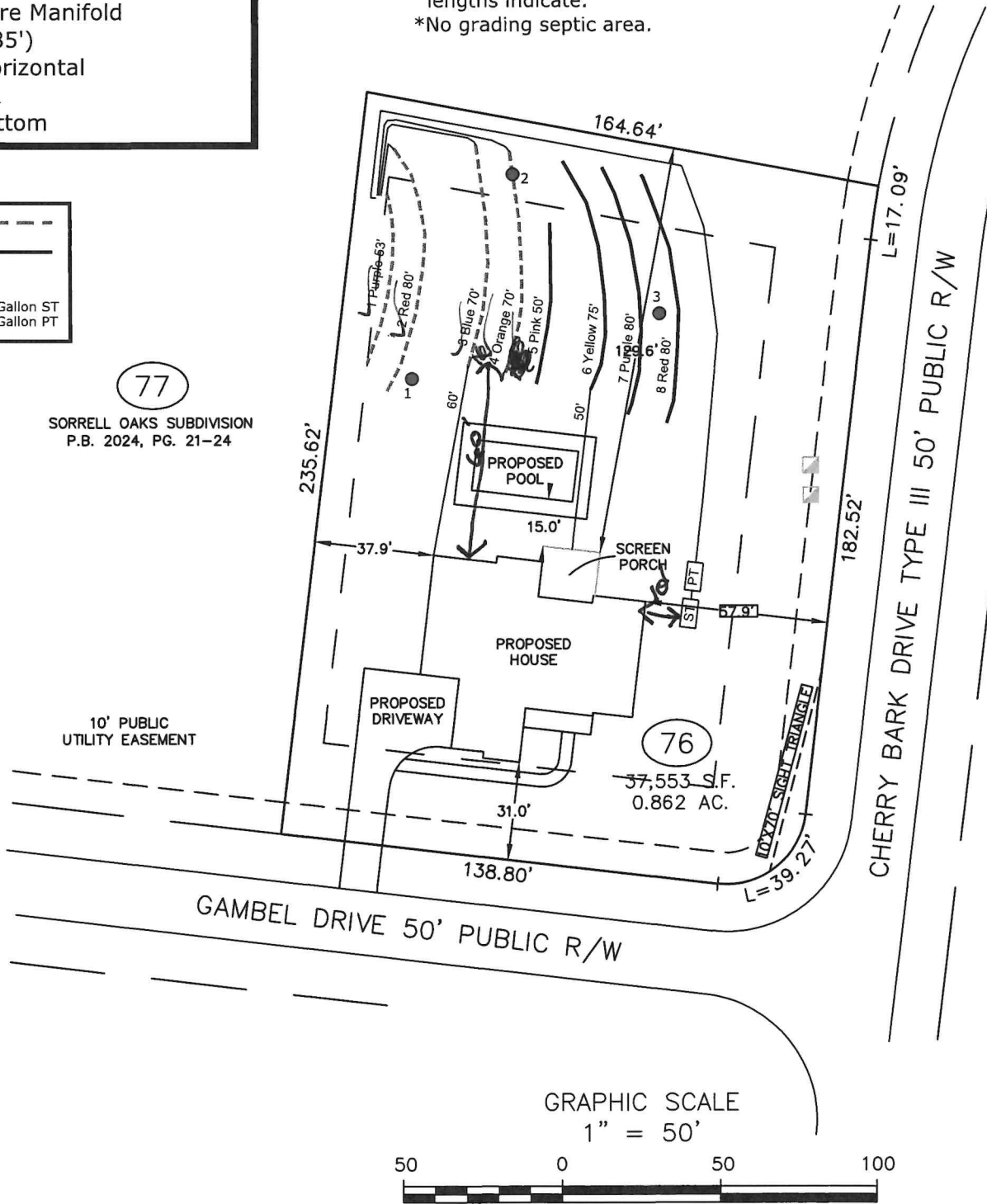
System: Pressure Manifold
 Lines: 1-4, (273')
 T&J Panel - Horizontal
 0.30 Soil LTAR
 30" Trench Bottom

Repair: Pressure Manifold
 Lines: 5-8, (285')
 T&J Panel - Horizontal
 0.30 Soil LTAR
 30" Trench Bottom

System: - - - -
 Repair: ————
 Boring: ●
 [ST]-[PT]: 1000 Gallon ST
 1300 Gallon PT

(77)
 SORRELL OAKS SUBDIVISION
 P.B. 2024, PG. 21-24

- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.



Central Carolina Soil Consulting, PLLC
 1900 South Main Street, Suite 110
 Wake Forest, North Carolina 27587
 Phone (919)569-6704 Fax (919)569-6703

4-Bedroom Septic Layout
 Lot 76, Sorrell Oaks Subdivision
 Franklin County, North Carolina

Job# : 4945
 Drawn By : MS
 Date : 06/28/2024
 Revision:

Sorrell Oaks, Lot 76 **T&J Panel Block, Tap Chart (Initial System)**

Bench Mark:						Elevation Head: 11.70							
Pump tank elev.		9	91.00	Pump elev. 85.60		Manifold elevation: 97.30							
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Spacing of Panels (in)	Feet of 1.5in PVC	
1	Purple	3.70	96.30	53	1/2in SCH 40	7.11	91.23	159	0.5738	12	6.5	44	
2	Red	4.10	95.90	80	3/4in SCH 80	10.1	129.59	240	0.5400	18	6.9	68	
3	Blue	4.60	95.40	70	3/4in SCH 80	10.1	129.59	210	0.6171	16	6.1	60	
4	Orange	5.00	95.00	70	3/4in SCH 80	10.1	129.59	210	0.6171	16	6.1	60	

				Total Number of Panels:		62	
total	feet =	273	gal/min =	37.41	T&J Panel Block Orientation:		Horizontal
				LTAR =		0.3250	
% of Dose Volume	0	Des. Flow	480	LTAR + %5		0.3413	
Dose Volume	310.00	Pump Run=	12.83	(ltar W/ INOV)		0.6500	
Dose Pump Time	8.29	Tank Gal/IN	21.5	(ltar W/ INOV + 5%)		0.6825	
Drawdown in Inches	14.42						
				Backfill Sand Needed:		46.5 tons	
				backfill sand needed + 5%:		48.83 tons	
				Total Footage of 1.5in PVC:		232	

Sorrell Oaks, Lot 76 **T&J Panel Block, Tap Chart (Repair System)**

Bench Mark:						Elevation Head: 9.90							
Pump tank elev.		9	91.00	Pump elev. 85.60		Manifold elevation: 95.50							
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Spacing of Panels (in)	Feet of 1.5in PVC	
5	Pink	5.50	94.50	50	1/2in SCH 40	7.11	91.23	150	0.6082	12	3.7	44	
6	Yellow	6.50	93.50	75	3/4in SCH 80	10.1	129.59	225	0.5760	17	6.6	64	
7	Purple	7.00	93.00	80	3/4in SCH 80	10.1	129.59	240	0.5400	18	6.9	68	
8	Red	7.90	92.10	80	3/4in SCH 80	10.1	129.59	240	0.5400	18	6.9	68	

					Total Number of Panels: 65			
	total	feet =	285	gal/min =	37.41	T&J Panel Block Orientation: Horizontal		
					LTAR = 0.3000			
% of Dose Volume	0	Des. Flow		480	LTAR + %5 0.3150			
Dose Volume	325.00	Pump Run=		12.83	(ltar W/ INOV) 0.6000			
Dose Pump Time	8.69	Tank Gal/IN		21.5	(ltar W/ INOV + 5%) 0.6300			
Drawdown in Inches	15.12							
					Backfill Sand Needed: 48.5 tons		Total Footage of 1.5in PVC: 244	
					backfill sand needed + 5%: 50.93 tons			