

North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

X New Expansion Repair Relocation Relocation of Repair Area
Owner or Legal Representative Information: Name: BVA Builders, Inc. Mailing address: 1300 Benson Rd, Suite 110, City: Garner State: NC Zip: 27529 Phone: 919-520-2181 Email: aford@vfgrealty.com
Authorized Onsite Wastewater Evaluator Information: Name: Hal Owen Certification #: 10036E Mailing address: PO Box 400 City: Lillington State: NC Zip: 27546 Phone: 910-893-8743 Email: hal@halowensoil.com
Site Location Information: Site address: 1286 W Blackman Rd, Dunn, NC 28334 Tax parcel identification number or subdivision lot, block number of property: PIN 1504-29-3394, Lot 1 County: Harnett
System Information: Wastewater System Type: IIIbg (Pump to Accepted Status 25% reduction) Daily Design Flow: <u>360 gpd</u> Saprolite System: Yes X Yes No Supply Type: Private Well X Public Water Supply Spring Other:
Facility Type: X Residential 3 # Bedrooms 6 Maximum # of Occupants Business Type of Business and Basis for Flow:
Required Attachments: V Plat or Site Plan V Evaluation of Soil and Site Features by Licensed Soil Scientist
Attest: On this the <u>18</u> day of <u>October</u> , <u>2024</u> by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina. This NOI shall expire on <u>18</u> day of <u>October</u> , <u>2029</u> .
Signature of Owner or Legal Representative:
Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.
Local Health Department Receipt Acknowledgement: Signature of Local Health Department Representative:

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HOA-AOWE-2409-11

Issue date 10/18/2024

Expiration 10/18/2029

APPLICANT INFORMATION

Name	BVA Builders Inc				
Mailing Address	1300 Benson Rd, Suite 110, Garner, NC 27529				
E-mail Address	aford@vfgrealty.com	Telephone Number	919-520-2181		

PROPERTY IDENTIFIERS

County	Harnett	PIN	1504-29-3394		
Size (Acre)	1.08	County PID			
Site Address	1286 W Blackman Rd, Dunn, NC 28334				
S/D Name and Lot#	Lot 1				

PROJECT INFORMATION

Wastewater System	New		.0403 Eng Low Flow	No
Wastewater Strength	Domestic		Effluent Standard	DSE
Facility Type	Residential		Water Supply	Public Water
Design Wastewater Flow	360	gpd	gal/unit	120
Basis for Flow	3	bedrooms	max occupancy	6
Basement	No		Fixtures in basement?	No
Crawl Space	No		Slab Foundation	Yes

CONSULTANT INFORMATION

Company Name	Hal Owen & Associates, Inc.		
Mailing Address	PO Box 400, Lillington, NC 27546		
E-mail Address	hal@halowensoil.com	Telephone Number	910-893-8743
Licensed Soil Scientist	Britt Wilson, LSS#1351	AOWE	Hal Owen, #10036E

A soil and site evaluation has been conducted for the referenced property for the purpose of permitting a subsurface wastewater system. This evaluation was prepared based on information provided by the applicant to include the basis for design flow, proposed structure location(s), and property boundaries. Any false, inaccurate, or incomplete information provided by the applicant, owner, or legal representatives may result in denial or revocation of applications, approvals, or permits.

This AOWE Evaluation is being submitted pursuant to and meets the requirements of G.S.130A-336.2. This evaluation includes a soil and site evaluation, specifications, plans, and reports for the site layout and construction of a proposed onsite wastewater system by an Authorized On-Site Wastewater Evaluator (AOWE). The evaluation of soil conditions and site features is provided in accordance with G.S. 130A-335(e), the Rules for "Wastewater Treatment and Dispersal Systems", 15A NCAC 18E, and local septic regulations (if any). This report represents my professional opinion as a Licensed Soil Scientist and Authorized Onsite Wastewater Evaluator.

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WASTEWATER SYSTEM DESIGN SPECIFICATIONS

Proposed Design Daily Flow	360	gpd	Drainfield Meeets Req	uirements:
Septic Tank Size (minimum)	1000	gallons	.0508 Available Space	Yes
Pump Tank Size (minimum)	1000	gallons, if required	.0601 Setbacks	Yes

Initial System

System Type	IIIbg –Pump to	Other non-	conventiona	l syste	ms		
Pump Required	Yes			9.46	ft TDH at	27.3	GPM
Trenches:	Accepted (25%	⁶ reduction)	System				
Design LTAR		0.40	gal/day/ft ²		Sapro	lite System	No
Total Trench/ Be	d Length	225	feet			Fill System	No
Trench Spacing		9	ft on center				
Usable soil depth	to LC	27	inches				
Maximum Trench Depth 15			inches, measured on downhill side of trench				nch
Minimum Soil Co	ver	6	inches				
Artificial Drainage	e Required	No	_				

Repair System

IIIbg –Pump to	Ilbg –Pump to Other non-conventional systems				
Yes					
Accepted (25%	reduction) System			
	0.40	gal/day/ft ²	Saprolite System	No	
d Length	225	feet	Fill System	No	
	9	ft on center	-		
to LC	26	inches			
Maximum Trench Depth of		inches, measured on downhill side of trench			
ver	6	inches			
	IIIbg –Pump to Yes Accepted (25% d Length to LC n Depth of ver	IIIbg –Pump to Other non- YesAccepted (25% reduction)Accepted (25% reduction)0.40d Length2259to LC26Depth of12ver	IIIbg –Pump to Other non-conventional system Yes Accepted (25% reduction) System 0.40 gal/day/ft² d Length 225 feet 9 ft on center to LC 26 n Depth of 12 wer 6	IIIbg –Pump to Other non-conventional systems Yes Accepted (25% reduction) System 0.40 gal/day/ft ² Saprolite System d Length 225 feet Fill System 9 ft on center Fill System ft on center to LC 26 inches inches, measured on downhill side of trendition of the set of the	

Potential Drainlines flagged at site on 9-ft centers.

			-			
		Rel. Elev.	Rel. Elev.	Drainline	Field	
Line #	Color	Back of lot	Front of lot	Length(ft)	(ft)	
1	W	100.13	100.13	60	61	
2	В	100.19	100.19	80	124	jti;
3	Y	100.25	100.25	85	128	느느
4	R	100.01	100.15	75	89	ר ו
5	W	100.00	100.10	75	90	
6	В	99.91	100.00	75	82	∣┘≊
Septic 1	Fank:	100.11				-
Pump Tank:		100.11]			
Reference	e Elev:	100.00]			

Notes:

*No grading or removal of soil in initial or repair areas *Property lines per owner

*Trench bottoms shall be level to +/- 1/4" in 10ft

*All parts of septic system must meet minimum setbacks

PERMIT CONDITIONS

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met.

System shall be installed in accordance with the attached Wastewater System Design Specificaitons. See attached SYSTEM LAYOUT for wastewater system design and location.

Any changes to the site plan or intended use must be approved by Hal Owen & Associates. Permit modification and resubmittal to the LHD may be necessary to ensure regulatory compliance.

Conformance to all regulatory setbacks shall be maintained. Local regulations (such as well or riparian buffer ordinances) may require more stringent setbacks than specified in the septic regulations.

Minimum soil cover of six inches shall be established over dispersal field. Soil cover above the original grade shall be placed at a uniform depth over the entire dispersal field and shall extend laterally five feet beyond the dispersal trench. Site shall be graded to shed water away from field and a vegetative cover established to prevent erosion.

The dispersal field and repair area shall not be subject to vehicular traffic. Vehicular traffic can damage soils, pipes, and valve boxes. Do not use septic areas for parking.

Do not allow underground utilities, water lines, or sprinkler systems to be installed in the septic areas. Damage to the septic areas could result in the septic permit being revoked.

The wastewater system shall not be covered until inspected by Hal Owen & Associates and shall not be placed into use until an Authorization to Operate is issued.

SPECIFIC REQUIREMENTS

A pre-construction conference with the septic contractor is required prior to installation. Call Hal Owen & Associates at least five days in advance to schedule 910-893-8743

The inlet and outlet of all tanks shall be equipped with an approved pipe penetration boot.

The pump tank may be eliminated if gravity distribution can be demonstrated.

Repair drainlines not to exceed 2 inches off contour.



INITIAL WASTEWATER SYSTEM

Pressure Manifold Design Criteria

DESIGN DAILY FLOW		360	gallons/day	SOIL LTAR:	0.40	gpd/ft ²		
TAN	<s (min)<="" td=""><td>Septic Tank:</td><td>1000</td><td>gallons</td><td>Pump Tank:</td><td>1000</td><td>gallons</td><td></td></s>	Septic Tank:	1000	gallons	Pump Tank:	1000	gallons	
SUPF	PLY LINE	Length:	18	ft	Diameter:	2	" SCH 40 F	PVC
		Minimu	m flow (gpm) to	maintain 2fps s	cour velocity:	20.9	gpm	
TREM	NCHES	Drainline Type:	Accepted (25%	reduction) Syst	tem			
		Maximum	Trench Depth of	15	inches, meas	ured on lo	ow side of ti	rench
		Trench width:	3	feet	Effective Tren	ch Width:	4	ft
	At	osorption Area:	675	ft ²	Minimum Line	ar Length:	225	ft
MAN	IFOLD	Length (ft):	3	Diameter:	4" sch 80 pvc	;	Elevation:	101.25
		# Taps	3	Tap Configura	ition: 6in. spac	ing, 1 sid	e of manifo	ld
TAP	CHART							_
		Relative		Tap Size/	flow/tap		LTAR	
Line	Color	Elevation	Length(ft)	Schedule	gpm	gpd/ft	(gpd/ft ²)	
3	Y	100.25	85	3/4"sch 80	10.10	1.566	0.522	
2	В	100.19	80	3/4"sch 80	10.10	1.664	0.555	
1	W	100.13	60	1/2"sch 40	7.11	1.562	0.521	
	-	Total Drainline:	225	Total Flow:	27.31			
					Tar	get LTAR*:	0.53	_
PUM	P CALCUL	ATIONS			L	.TAR + 5%:	0.560	_
Dose	Volume:	110.19	gallons, with Pip	e Volume at	75	%	*65.3gal/100f	t pipe
Dose	Pump Rur	n Time (min):	4.03	Daily	Pump Run Ti	me (min):	13.18	_
Draw	down (in.):	110	gallons ÷	20.25	gal/ inch =	5.44	inches	
Pump	o Tank Elev	vation (ft):	100.11	Pump	Elevation (ft):	95.11	_	
Frictio	on Head:	1.32	*Hazen Williams Fo	rmula (use supply	line length+70' fo	or fittings in p	pump tank)	
Eleva	tion Head:	6.1	-					
Desig	gn Head:	2.0	-	Total	l Dynamic Hea	ad (TDH):	9.46	ft
Pump	o to Deliver	: 9.5	ft TDH @	27.3	gpm			

NEMA 4X Simplex Control Panel with elapsed time meter, event counter, audible and visible alarm (w/ silence button), hand-off-automatic (HOA) switch, pump run light, and pump on separate circuits is requirec Control panel bottom shall be mounted a minimum of 24 in. above finished grade within 50 ft of pump tank. A septic tank filter is required. Floats to be determined by type of pump tank used.

Possible Septic Tank:	Brantley 1000 STB-502	Possible Septic Filter:		
Possible Pump Tank:	Brantley 1000_PT-237	Vol(gal): 1000	GPI:	20.25
Possible Pump:		pump height (in) =	14	
Possible Control Panel:				

INITIAL WASTEWATER SYSTEM



INITIAL WASTEWATER SYSTEM

Typical Septic Tank



Typical Pump Tank

1000 GALLON PUMP TANK, minimum



1000 GALLON SEPTIC TANK, minimum

INITIAL WASTEWATER SYSTEM





REPAIR AREA

Pressure Manifold Design Criteria										
DES	GN FLOW	360	gal/day	5	SOIL LTAR:	0.40	gpd/ft ²			
TANKS (minimum) Septic Tank: 1000 gallons Pump Tank: 1000 gallons										
TRENCHES Drainline Type: Accepted (25% reduction) System										
Maximum Trench Depth of 12 inches, measured on low side of trench										
	Т	rench width:	3	feet	Effective Tr	ft				
	Abso	orption Area:	675	ft ²	Minimum Lii	near Length:	225	ft		
								-		
MAN	IFOLD	# Taps	3 Tap Configuration: 6in. spacing, 1 sid				de of manifold			
		Length (ft):	3	Diameter:	4" sch 80 pv	/C	Elevation:	101.01		
TAP	CHART									
Тар	Line	Line	Relative	Drainline	Tap Size/	Flow/tap	LTAR			
#	Number	Color	Elevation	Length(ft)	Schedule	(gpm)	(gpd/ft ²)			
1	4	R	100.01	75	3/4"sch 80	10.10	0.533			
2	5	W	100.00	75	3/4"sch 80	10.10	0.533			
3	6	В	99.91	75	3/4"sch 80	10.10	0.533			
		Tot	al Drainline:	225	Total Flow:	30.30		-		
						Target LTAR*:	0.53	_		
PUM	P CALCULA	ATIONS				LTAR + 5%:	0.560	_		
Total	Flow:	30.30	gpm	Desię	gn Head (ft):	2.0				
Daily Pump Run Time:11.88 _ min (Daily Flow/Total Flow)										
Dose	Volume:	110.19	gallons with	Pipe Volum	e at	75	% (65.3gal/10	Oft pipe)		
Dose Pump Run3.64 minutes (Dose Volume/Total Flow)										

* Target LTAR: Convert LTAR for non-conventional drainline types by dividing by trench length factor

MANIFOLD DIAGRAM:

Tap #	1	2	3	
		4" SCH 80	PVC Manifold	
Tap Size	3/4"sch 80	3/4"sch 80	3/4"sch 80	
flow (gpm)	10.10	10.10	10.10	
Line Length (ft)	75	75	75	



Soil/Site Evaluation Form for On-Site Wastewater System

OWNER NAME:	BVA Builders Inc			
PROPOSED FACILITY:	Residential	DESIGN DAILY FLO	W: 360	WATER SUPPLY Public Water
LOCATION OF SITE:	1286 W Blackman	Rd, Dunn, NC 28334	PI	N: 1504-29-3394
WASTEWATER TYPE:	Domestic		COUNT	Y: Harnett
EVALUATION METHOD	AUGER BOR	ING		СИТ 🗌
EVALUATED BY:	Britt Wilson, LSS#	1351		DATE EVALUATED: <u>9/30/24</u>
	INITIAL	SYSTEM		REPAIR SYSTEM
AVAILABLE SPACE	675 ft ² tren	ch bottom	67	⁷⁵ ft ² trench bottom
SYSTEM TYPE	Accepted	25% reduction) System	Acc	epted (25% reduction) System
SITE LTAR	0.40 gpd/ft ²		0.4	0 gpd/ft ²
MAX TRENCH DEPTH	15 inches	(measured on downhill side)	1	2 inches (measured on downhill side)
SITE CLASSIFICATION	Suitable	ОТ	HER FACTOR	S

COMMENTS:

PROFILE 1

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		
0-7	10YR 4/2	FR	SL	GR	SEXP	LANDSCAPE POSITION	Т
7-48+	10YR 5/6	FR	SCL	SBK	SEXP	SOIL WETNESS DEPTH	30"
						SOIL WETNESS COLOR	10YR 7/2
						SOIL DEPTH	48"
						SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
						SLOPE %	1
PROFILE CLASSIFICATION		Suitable	LTAR gpd/ft ²	0.4	SLOPE CORRECTION (IN)	0.4	
COMMENT					-		

PROFILE 2

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS		TORS
DEPTH		TENCE			LOGY			
0-10	10YR 4/2	FR	SL	GR	SEXP	LANDSCAPE	LANDSCAPE POSITION	
10-27	10YR 5/6	FR	SCL	SBK	SEXP	SOIL WETN	SOIL WETNESS DEPTH	
27-48+	10YR 6/6	FI	SCL	ABK	SEXP	SOIL WETNESS COLOR		10YR 7/2
						SOIL DEPTH		48'''
						SAPROLITE CLASS		NA
						RESTRICTIVE HORIZON		NA
						SLOPE %		1
PROFILE CLASSIFICATION			Suitable	LTAR gpd/ft ²	0.4	SLOPE COR	RECTION (IN)	0.4
COMMENT Suitable			for modified	systems				

PROFILE 3

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		
0-6	10YR 4/2	FR	SL	GR	SEXP	LANDSCAPE POSITION	Т
6-13	10YR 5/3	VFR	SL	GR	SEXP	SOIL WETNESS DEPTH	38"
13-34	10YR 5/6	FR	SCL	SBK	SEXP	SOIL WETNESS COLOR	10YR 7/2
34-48+	10YR 6/6	FI	SCL	ABK	SEXP	SOIL DEPTH	48"
						SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
						SLOPE %	1
PROFILE CLASSIFICATION		Suitable	LTAR gpd/ft ²	0.4	SLOPE CORRECTION (IN)	0.4	
COMMENT							

PROFILE 4

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS		
DEPTH		TENCE			LOGY			
0-6		VFR	SL	GR	SEXP	LANDSCAPE POSITION	Т	
6-27		FR	SCL	SBK	SEXP	SOIL WETNESS DEPTH	26"	
27-48+		FI	SCL	ABK	SEXP	SOIL WETNESS COLOR	10YR 7/2	
						SOIL DEPTH	48"	
						SAPROLITE CLASS	NA	
						RESTRICTIVE HORIZON	NA	
						SLOPE %	1	
PROFILE CLASSIFICATION		ION	Suitable	LTAR gpd/ft ²	0.4	SLOPE CORRECTION (IN)	0.4	
COMMENT		Suitable	Suitable for modified systems					

Soil/Site Evaluation Form for On-Site Wastewater System

LEGEND OF ABBREVIATIONS								
LANDSCAPE	TEXT				<u>LTAR</u>			
POSITION	GRO	DUP	CLASS		(gal/day/sqft)			
CC - Concave Slope		I S - San			1.2-0.8			
CV - Convex Slope			LS - Loamy	Sand				
DS - Debris Slump								
D - Depression	1	I	SL - Sandy	Loam	0.8 – 0.6			
DW - Drainage Way			L - Loam					
FP - Flood Plain								
FS - Foot Slope	1	I	SCL - Sand	y Clay Loam	0.6 – 0.3			
H - Head Slope			CL - Clay Lo	bam				
L - Linear Slope			SiL - Silt Loa	am				
N - Nose Slope			Si - Silt					
R - Ridge			SiCL - Silt C	Clay Loam				
S - Shoulder Slope								
T - Terrace	יו	V	SC - Sandy	Clay	0.4 – 0.1			
TS - Toe Slope			C - Clay					
			SiC - Silty Clay					
			O - Organic		none			
STRUCTURE	MOIST	<u>CONSISTENCE</u>		WET CONSISTE	ENCE			
G - Single Grain	VFR - V	VFR - Very Friable		NS - Non Stick				
M - Massive	FR - Fria	FR - Friable		SS - Slightly Stic	cky			
CR - Crumb	FI - Firm	FI - Firm		MS - Moderately	y Stick			
GR - Granular	VFI - Ve	VFI - Very Firm		VS - Very Sticky				
SBK - Subangular Block	y EFI - Ex	EFI - Extremely Firm						
ABK - Angular Blocky				NP - Non Plastic	;			
PL - Platy	MINERA	MINERALOGY		SP - Slightly Pla	astic			
PR - Prismatic	SEXP -	SEXP - Slightly Expansive		MP - Moderately Plast				
	EXP - E	EXP - Expansive		VP - Very Plastic	c			
MOTTLES	f – few	1 - fine		F - Faint				
	c – common	2 - medium		D - Distinct				
	m – many	y 3 - coarse		P - Prominent				

Give Horizon Depth in inches below natural soil surface and Fill Depth in inches above land surface.

Depth to Soil Wetness: inches below land surface to free water or to soil colors with chroma 2 or less.

Classification: S – Suitable U – Unsuitable

All soil characteristics were described in accordance with the USDA Field Book for Describing and Sampling Soils. The soils were evaluated under moist soil conditions. This evaluation included observations of topography and landscape position, soil morphology (texture, structure, clay mineralogy, organics), soil wetness, soil depth, and restrictive horizons.

TERMS AND CONDITIONS

This AOWE Evaluation is intended to file a Notice of Intent to construct a wastewater system with the Local Health Department and shall expire in five years. This evaluation is not a permit to develop. The owner and subcontractors will need to abide by all state and local rules and regulations pertaining to planning, zoning, and land use development.

<u>Notice of Intent to Construct</u> – Prior to commencing or assisting in the construction, siting, relocation, or repair of a wastewater system, a complete Notice of Intent (NOI) to Construct a wastewater system using an AOWE must be submitted to the Local Health Department (LHD). The owner may apply for a building permit for the project upon submitting a complete NOI and the required fee.

<u>Plan Alterations</u> – If there are any changes in the site plan that can impact the wastewater system, such as moving the house or driveway, site alterations, or if the applicant chooses to change the design daily flow prior to wastewater system construction, a new NOI shall be submitted to the LHD. The applicant shall request in writing that the PE or AOWE invalidate the prior NOI with a signed and sealed letter sent to the applicant and LHD.

<u>Site Alterations</u> – The applicant shall be responsible for preventing modifications or alterations of the site for the wastewater system and the system repair area before, during, and after any construction activities for the facility, unless approved by the AOWE.

<u>On-Site Wastewater System Contractor</u> – The AOWE shall assist the owner in the selection of a certified on-site wastewater system contractor who shall be under contractual obligation to the owner and have sufficient errors and omissions, liability, or other insurance for the system constructed.

<u>Inspections, Construction Observations, and Reports</u> – The AOWE shall make periodic visits to the site to observe the progress and quality of the construction of the wastewater system.

<u>Authorization to Operate (ATO)</u> – Upon determining that the wastewater system has been properly installed and is capable of being operated in accordance with the conditions of the permit, the AOWE shall provide the owner with a report that includes inspection reports, a written operation and management program, any special reports, and an Authorization to Operate. The owner shall sign confirming acceptance and receipt of the report, and then provide a copy to the LHD who will issue the certificate of occupancy for the facility.

<u>Operation and Management</u> – The owner shall be responsible for continued adherence to the operations and management program established by the AOWE. This permit shall in no way be taken as a guarantee or implied warranty that the septic system will function satisfactorily for any given period of time.

<u>Change in System Ownership</u> – An authorized wastewater system shall be transferrable to a new owner with the consent of the AOWE. The new owner and the AOWE shall enter a contract for the wastewater system.

<u>Revocation</u> – The AOWE permit is subject to revocation if the site plan, plat, or the intended use changes. This permit is subject to compliance with the provisions of the laws and Rules for Wastewater Treatment and Dispersal Systems and to the conditions of this permit.

<u>Repair of Malfunctioning Systems</u> – The owner may apply for an Improvement Permit and a Construction Authorization from the LHD or obtain a NOI from an AOWE to repair a malfunctioning wastewater system.