		Permit #:
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES	Division of Public Health	nor ecretary ty Secretary for Health Assistant Secretary for Public Health
	(a2) Construction Authorization FORMIT FOR G.S. 130A-3	
County: PIN/Lot Identifier: Issued To: Property Location:		
Property Location: Subdivision (if applicable)		
LSS Report Provided: Yes No	LOL #:	Section:
If yes, name and license number of LSS:		
NewExpansion	System Relocation	Change of Use
Proposed Structure:	· <u> </u>	
Number of bedrooms: Number of Occupants:		
	high strength	
Proposed Design Daily Flow: GPD Pro		
Proposed Wastewater System Type*:		
Proposed Wastewater System Type*:	(Repair) Pump F	Required: 🗌 Yes 🗌 No 📄 May be required
*Please include system classification for proposed wastewater	system types in accordance with 1	5A NCAC 18A .1961 Table V(a)
Saprolite System (initial): Yes No Saprolite System	tem (repair): 🗌 Yes 🔲 No	
Fill System (Initial): Yes No If yes, specify: New	Existing (when adding more tha	n 6 inches of fill to system area provide a fill pla
Fill System (repair): Yes No If yes, specify: New	Existing (when adding more that	an 6 inches of fill to system area provide a fill pla
Usable Soil Depth (Initial): Usable Soil D	epth (Repair):	
Max. Trench Depth (Initial) <sup>‡</sup> : Max. Trench		
Artificial Drainage Required: Yes No If yes, please spe		
Type of Water Supply: Private well Public well		
Drainfield location meets requirements of Rule .1945: Yes	—	
Permit valid for:  Five years [site plan submitted pursuant to	o GS 130A-334(13a)] 🗌 No expira	ation [plat submitted pursuant to GS 130A-334(7
Permit conditions:		
Licensed Soil Scientist Print Name:		
Licensed Soil Scientist Signature:		
The LSS evaluation is being submitted p		
NC DEPARTMENT OF HEALTH A	ND HUMAN SERVICES . DIVISIO	N OF PUBLIC HEALTH
LOCATION: 5605 Six MAILING ADDRESS: 1632	Forks Road, Building 3, Raleigh, NC Mail Service Center, Raleigh, NC 2 TEL: 919-707-5854 • FAX: 919-845	27609 7699-1632

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



## This Section for Local Health Department Use Only

Initial submittal received: \_\_\_\_\_\_ by \_\_\_\_\_

Date Initials

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

pl m h			
Copies of this were sent to the LSS and the Appli	cant on		
85-0	Date		
State Authorized Agent:		Date:	
Complete			
State Authorized Agent:		Date:	

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: \_\_\_\_\_

\*See attached site sketch\*



Permit #: \_\_\_\_\_

	Re-submitt	al of Improveme	nt Permit		_
	LHD USE ONLY: This IP resubmittal r	received:		Initials	
The following i	tems are being resubmitted pursuant to G	.S. 130A-335(a3) for iss	suance of the Imp	provement Permit:	
	Ĩ				
is accurate and	Scientist (Print Name) complete to the best of my knowledge a				
	laws, regulations, rules, and ordinances.	Aver	Date	E	
			1		

The section below is for Local Health Department use after submittal of items noted as missing above.

#### LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Date

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applicant on \_\_\_\_\_

State Authorized Agent: \_\_\_\_\_

Complete

State Authorized Agent:

Date: \_\_\_\_\_

Date: \_\_\_\_\_



Permit #: \_\_\_\_\_

#### CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:		
PIN/Lot Identifier:		
Issued To:		
Property Location:		
AOWE/PE Plans/Evalua	tions Provided: Yes 📃 No 🗌	If yes, name and license number of AOWE/PE:
Facility Type:		
New	Expansion 🗌 Repair	System Relocation Change of Use
Basement?	Yes 🗌 No	Basement Fixtures? Yes No
Type of Wastewater Sy	stem*	(Initial)(Repa
*Please include system	classification for proposed wast	tewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow:	GPD Wa	astewater Strength: 🗌 domestic 🛛 high strength 🗌 industrial process
	Section 53, Engineering Design L Engineering documentation)	Jtilizing Low-flow Fixtures and Low-flow Technologies? 🗌 Yes 🗌 No
Installation Requireme	ents/Conditions	
Septic Tank Size:	gallons Total Trench/B	ed Length: feet Trench/Bed Spacing: feet on center
Trench/Bed Width:	inches LTAR:	gpd/ft <sup>2</sup>
Soil Cover: inche	s Slope Corrected Maximur	m Trench/Bed Depth <sup>‡</sup> : inches <i>* Measured on the downhill side of the trench</i>
Aggregate Depth:	inches above pipe	inches below pipeinches total
Pump Tank Size (if appl	icable): gallons	Requires more than 1 pump? 🗌 Yes 🗌 No
Pump Requirements:	ft. TDH vs GPM	Grease Trap Size (if applicable): gallons
Distribution Method:	Serial D-Box or Parallel	Pressure Manifold(s) LPP Other:
Artificial Drainage Requ	ired: Yes 🗌 No 🗌 If yes, pl	ease specify details:
Legal Agreements (If th	ne answer is "Yes" to any type of	f legal agreements, please attach a copy of the agreement.)
Multi-party Agreement	Required [.1937(h)]: 🗌 Yes	No
Easement, Right-of-Wa	y, or Encroachment Agreement	Required [.1938(j)]: Yes No
Declaration of Restriction	ve Covenants: 🗌 Yes 🗌 No	1PPU 12 17TO
Pre-Construction Confe	erence Required: Yes 🗌 🛛 No 🛛	
Conditions:		SE OHAM VIDEN
		Con Uni
		s .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference ralled in accordance with the attached system layout.
AOWE/PE Print Name:		Expiration Date:
AOWE/PE Signature:	Alex Adams	Date:
	This AOWE/PE submittal is pur	suant to and meets the requirements of G.S. 130A-335(a2) and (a5).

\*See attached site sketch\*



Permit #:

### This Section for Local Health Department Use Only

Initial submittal received: \_\_\_\_\_\_ by

Date Initials

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This

Construction Authorization is determined to be:

Incomplete (If box is checked, information in this section is real	quired.)		
The following items are missing:			
Copies of this were sent to the AOWE/PE and the Applicant on	Date	AV781	
State Authorized Agent:		Date:	
Complete		518	
State Authorized Agent:		Date of Issuance:	

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: \_\_\_\_\_

\*See attached site sketch\*



Permit #: \_\_\_\_\_

# **Re-submittal of Construction Authorization**

	LHD USE ONLY: This CA resubmittal received:	Date	by	Initials	
The following	Litems are being resubmitted pursuant to G.S. 130A-335	5(a5) for issuance	of the Const	ruction Authori	zation:
	ST	ATT	202		
I,	hereby attest that	the information	required to I	pe included wit	h this re-submittal
	Onsite Wastewater Evaluator (Print Name)				
	I complete to the best of my knowledge and that the p	proposed Constru	iction Author	ization meets a	ll applicable
federal, State, a	and local laws, regulations, rules, and ordinances.				
	MALK A	<u> </u>		<u>- 10</u>	
Signatu	ire of Authorized On-Site Wastewater Evaluator		Date		
	The section below is for Local Health Department use	after submittal of	items noted a	s missing above.	
LHD Follow-	up Completeness Review of Construction Au	Ithorization			
	completeness of this Construction Authorization re-su on Authorization is determined to be:	ıbmittal was cono	ducted in acc	ordance with G	.S. 130A-335(a5).
Incomplete	(If box is checked, information in this section is require	ed.)			
The following it	tems are missing:				
	SSE QUAN	1 VIDER	19		
Copies of this v	were sent to the AOWE/PE and the Applicant on	Date	_		
State Authorize	ed Agent:		_ [	Date:	
Complete					
State Authorize	ed Agent:		[	Date:	

# Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761 alexadams@bcsoil.com

December 9, 2024 Project #2048

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

RE: Cameron Hill Road (adjacent to 1221 Cameron Hill Rd) for Superior Homes (Graham Family) (Harnett County PIN# 9565-90-3621)

To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18E. From this evaluation, ASC is providing the attached 480 gallon/day septic design.

The suitable soils found on the subject property were relatively consistent in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair locations. No underground utilities, water lines, or sprinkler systems shall be

placed into the initial or repair septic areas. Installation must meet all state and Harnett County regulations for septic system installation. The trenches must be installed in the same location as the site plan. If the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

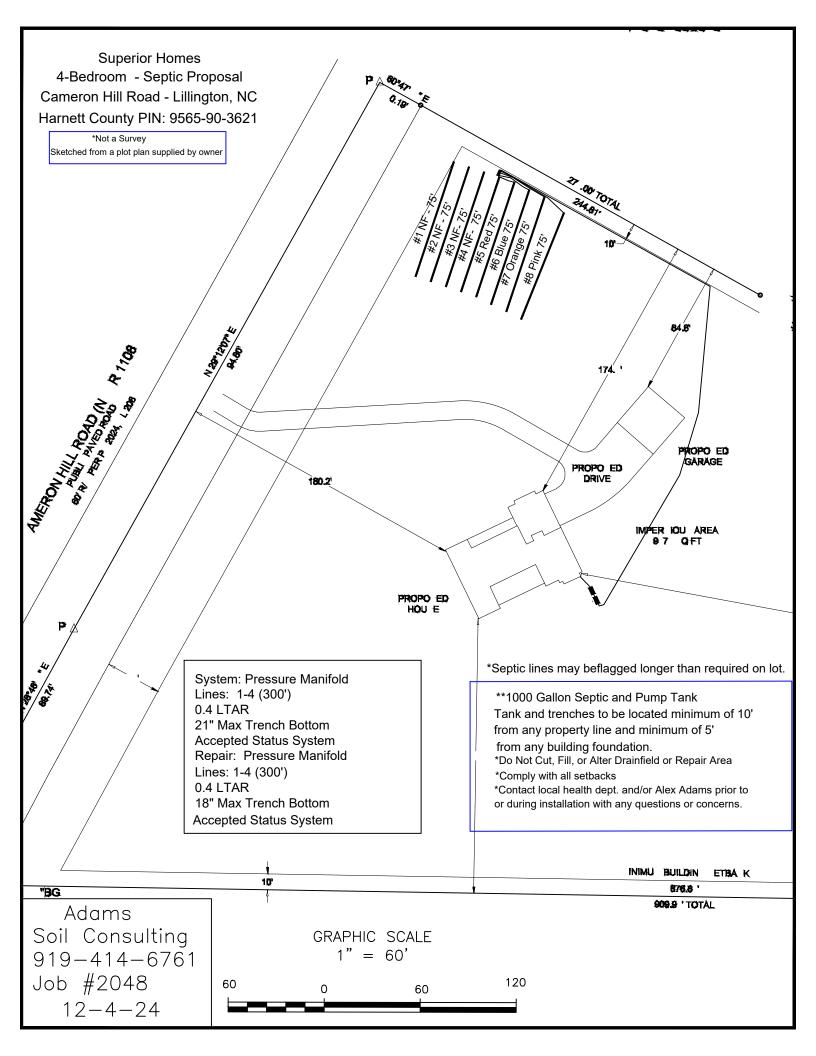
If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

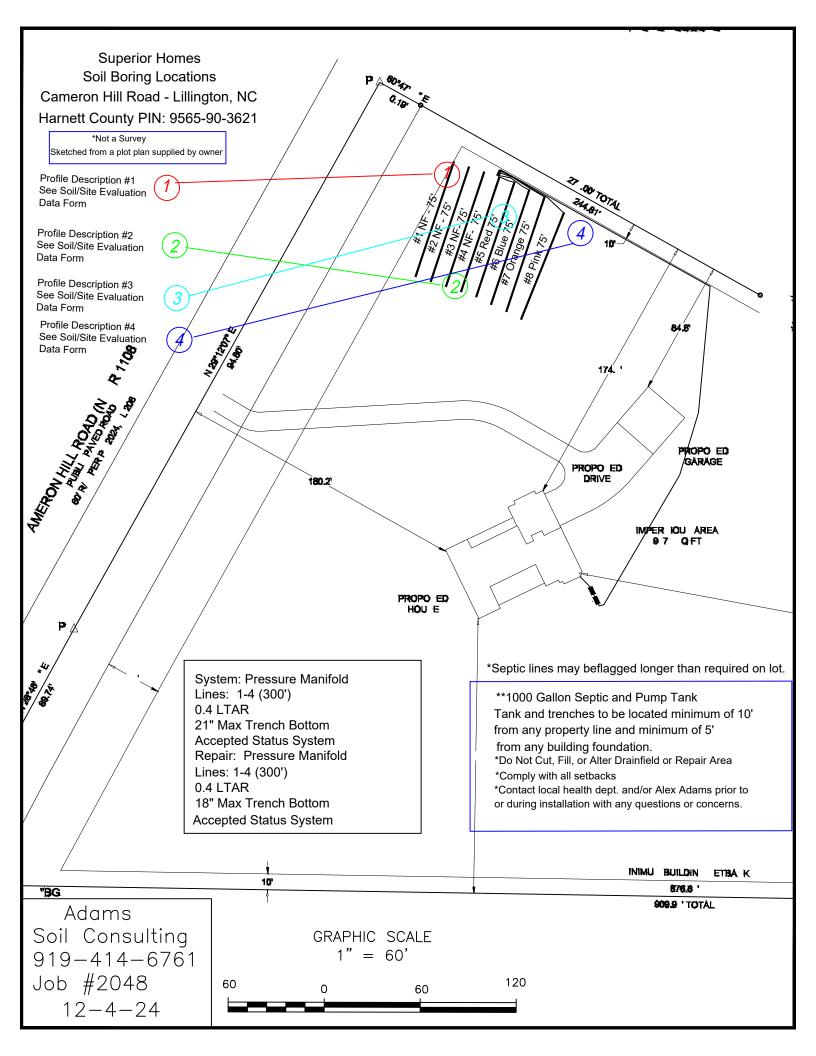
Sincerely,

Alex Adams NC Licensed Soil Scientist #1247 AOWE Certification: 10021E









		1	1				1		1		
				Broccu	re Manifold	Docian					
		Superior Hor		Flessu		Design					
Cameron Hill R	oad										
Cameron min K											
# of BDR:	4	Daily Flow:	480	gal/day	L.T.A.R.:	0.4000	gal/day/sq.ft				
			]	<b>J</b>			<u> </u>				
Septic Tank:	<u>1000</u>	gals	Pump Tank:	<u>1000</u>	gals	Sq. Foot:	<u>900</u>	System Type:	Acce	pted	
Number of Tap	s:	<u>4</u>	Length o	f Trenches:	<u>300</u>	ft(See Tap	Chart for Det	ails)			
		00	•	N4		40	•				
Depth of Trenc	nes:	<u>20</u>	in	Man	ifold Length:	<u>42</u>	in				
Manifold Diame	ator:	4in sch 80pv	<u> </u>	Tan Config	uration: 6 in s	nacing	1	side(s) of mar	ifold		
				rap comig		pacing					
Supply Line: le	nath:	125	ft		Diameter:	2	in sch 40pvc				
		<u></u>				=					
Friction Loss +	Fitting L	oss:	3.69	ft(supply lin	he length + 70	for fitting	s in pump tan	k)			
Design Head:		<u>2</u>	ft	Elevation H	lead:	<u>10.00</u>	ft				
Total Head:	<u>15.69</u>	ft		Pun	np to Deliver:	<u>28.44</u>	gals/min at	<u>15.69</u>	ft head		
Dosing Volume	):	<u>137</u>	gals,								
	407			01.4		0.4	··· · · · · ·				
Drawdown:	137	gals divided	бу	<u>21.4</u>	gals/in =	<u>6.4</u>	inches				
Simplex Contro	l Panel r	auired: elan	sod time met	er and cycle	counter requ	uired: Float	ts to be determ	lined			
by type of pum					counter requ						
ay type of pull											
			Т	<b>AP CHAR</b>	Т						
Benchmark	0	is = 100.00	set at				Design Head:	2			
Pump tank elev.		6.08	93.00	Pump elev.	89.00		Manifold elev.	93.00			
line	aalar	and soud	Flowetion	lon oth	hele size	flow/hom	anal/day/	tranch area	LINE LTAR	# of Panels (PPBPS)	Spacing o
line	color Purple	rod read 4.70	Elevation 95.30	length 75	hole size 1/2in SCH 40	flow/tap 7.11	gal/day 120.00	trench area 225	0.5333	(РРБРЗ)	Panels (in
2	Red	4.70	95.30	75	1/2in SCH 40	7.11	120.00	225	0.5333		
3	White	5.30	94.70	75	1/2in SCH 40	7.11	120.00	225	0.5333		
4	Blue	5.60	94.40	75	1/2in SCH 40	7.11	120.00	225	0.5333		
	1	1						1.745			
			Total Feet =	300	gal/min =	28.44		LTAR =	0.4000		
Total # of Papalo (9			Total Feet = Feet Required =	300	Velocity =	28.44 2.72		(ltar + 5%)	0.4200		
•	PBPS)			300 Des. Flow	<b>Velocity =</b> 480			(ltar + 5%) (ltar w/25% red)	0.4200 0.5333		
% of Dose Vol.	PBPS)	70		300 <u>Des. Flow</u> Pump Run=	Velocity = 480 16.88			(ltar + 5%)	0.4200		
% of Dose Vol. Dose Volume	PPBPS)			300 Des. Flow	<b>Velocity =</b> 480			(ltar + 5%) (ltar w/25% red)	0.4200 0.5333		
Total # of Panels (F % of Dose Vol. Dose Volume Dose Pump Time Drawdown in Inche		70 137		300 <u>Des. Flow</u> Pump Run= Tank Gal/IN	Velocity = 480 16.88 21.4			(ltar + 5%) (ltar w/25% red)	0.4200 0.5333		
% of Dose Vol. Dose Volume Dose Pump Time		70 137 4.80		300 <u>Des. Flow</u> Pump Run= Tank Gal/IN	Velocity = 480 16.88 21.4			(ltar + 5%) (ltar w/25% red)	0.4200 0.5333		

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

OWNER: Marchese ADDRESS: Cameron Hill PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd LOCATION OF SITE: Cameron Hill WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

-

APPLICATION DATE:

DATE EVALUATED: 12-2-24 PROPERTY SIZE: ~10.08 Acres

TYPE OF WASTEWATER: Sewage

P R O F I L	.1940 LANDSCAPE	PE HORIZON	SOIL MORPHOLOGY (.1941)			OTHER PROFILE FACTORS				
E #	POSITION/ SLOPE %	DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTEN MINERALO		.1942 SOIL ETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear	0-20	GR/LS	VFR/SEXP/	NS ]	N/A	N/A	N.O	N.O	U/PS/.4
1	Slope/4%	20-38	SBK/SCL	FR/SEXP/	NS					
	Linear	0-26	GR/SL	VFR/SEXP/	NS ]	N/A	N/A	N.O	N.O	U/PS/.4
	Slope/4%	26-40	SBK/SCL	FR/SEXP/	NS					
2										
	Linear Slope/4%	0-30	GR/LS	VFR/SEXP/		N/A	N/A	N.O	N.O	PS/.4
3	Slope/4%	30-36	SBK/SCL	FR/SEXP/						
	Linear	0-18	GR/LS	VFR/SEXP/	NS ]	N/A	N/A	N.O	N.O	U/PS/.4
	Slope/4%	18-36	SBK/SCL	FR/SEXP/1	NS					
	DESCRIPTION	INTER A L	OVOTEM DED	AID SVSTEM						
			SYSTEM REPA			CTORS (.19 SIFICATIO	946): N (.1948): U	J/PS		
	lable Space (.1945) em Type(s)	Type I				ED BY:A. A PRESENT:	dams			

OTHER(S) PRESENT:

Site LTAR COMMENTS: 0.4

0.4