

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED

PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR INTENDED USE CHANGED

OPERATIONS PERMIT

PERMIT # HWP-118612-2024

APPLICATION DATE: 02/12/2024

BLDG. PERMIT#: RBPR-118667-2024

PIN: 1822730897

RECORDED: Yes

TOWNSHIP: 14 - New Light

JURISDICTION: Wake County

ZONING: R-40W

APPLICANT: Ben M Arenio
900 Ridgefield Dr., Suite 50

BUSINESS PHONE: (919) 717-0794

HOME PHONE: (919) 717-0794

MOBILE PHONE: (919) 717-0794

HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE

EXISTING USE:

SITE ADDRESS: 2200 PADDSTOWE MAIN WAY

SUBDIVISION: Watkins Glen

LOT: 6

ACRES:

DIRECTIONS: Enter Paddstowe subdivision and drive to the end of the street.

Systems defined as either type III-b, III-g with a pump, IV, V or VI, in accordance with the North Carolina administrative code 15A NCAC 18a .1961, table V as adopted by reference in the "Regulations Governing Wastewater Treatment Dispersal Systems in Wake County", requires Wake County Environmental Services to conduct periodic inspections of the system type pursuant to 15A NCAC 18a. 1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. This permit is based in part on information provided by the homeowner and/or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The environmental health specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him/her in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

OPERATION PERMIT VALID FOR: No Expiration

INSTALLED BY: BRANTLEY, CORY - 1036 - IV

PROPRIETARY SYSTEM: IQ4P LP - Infiltrator Quick4 Plus

PRETREATMENT SYSTEM:

Low Profile

SYSTEM TYPE INSTALLED: III G

OPERATION PERMIT: STATUS: Issued

ISSUED BY: Noah Greenway

ISSUED DATE: 04/02/2025

SEPTIC TANK: David Brantley & Sons - STB-323 -
1250 gallons

DATE OF MANUFACTURE:

FILTER: GAG SIM/TECH - STF-110

GREASE TRAP:

DATE OF MANUFACTURE:

FILTER:

DOSING PUMP TANK:

DATE OF MANUFACTURE:

FILTER:

CC1: ETM1:

CC2:

ETM2:

RECIRCULATION TANK:

DATE OF MANUFACTURE:

CC1: ETM1:

CC2:

ETM2:

SEPTIC TANK ELEVATION: 2.90

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION:

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 3

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
10	8	72	4.2
10	8	72	5.1
10	8	144	6.5
10	8	144	7

ACTUAL PRESSURE HEAD:

ACTUAL FLOW RATE:

ACTUAL DOSE VOLUME: 0

SPECIFIC OPERATION REQUIREMENTS:

- Permits issued via G.S. 130A-335(a2) by Jason Hall
- 4 bedroom, 360 gal/day utilizing flow reduction
- community well water source
- Future repair is a IIBG LPC type system with 8" trench depth and 0.30 LTAR per G.S. 130A-335(a2) permit.
- ASDSMS: Book: 019672 Page: 00373

ISSUED BY:



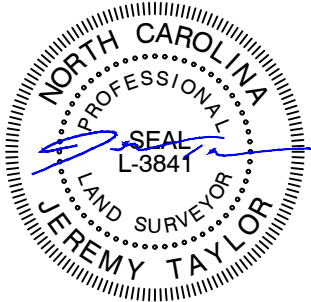
DATE: 04/02/2025



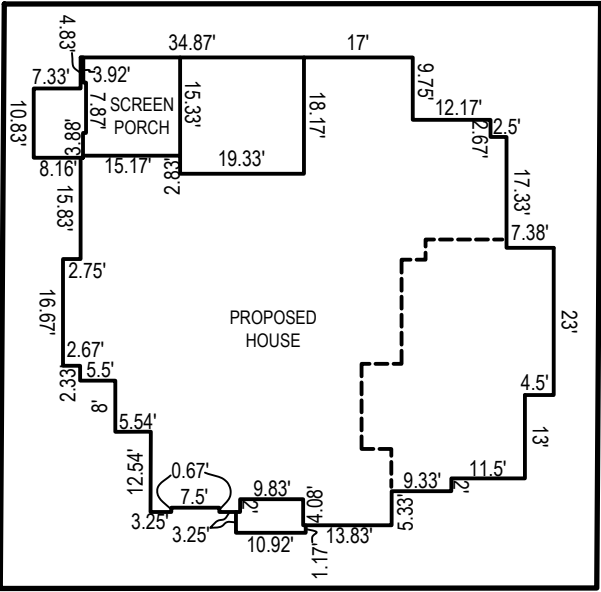
LOCATION MAP
1" = 1,000'

SITE DATA	
CLIENT	EXETER BUILDING COMPANY
SITE ADDRESS	2200 PADDSTOWE MAIN WAY
PIN	1822-73-0897
DEED REFERENCE	21-E. PG. 2370
SUBDIVISION	WATKINS GLEN @ WAKE FOREST
PLAT REFERENCE	B.M. 2010, PG. 524-525, LOT 6
LOT SIZE	1.32 ACRES
ZONING	R-40W

BUILDING SETBACKS	
FRONT	30'
CORNER	30'
REAR	30'
SIDE	15'



IMPERVIOUS AREA (S.F)	
HOUSE	4728
DRIVE/WALK	1782
POOL PATIO/EQUIP. PAD	568
TOTAL	7078
MAX (PER PLAT)	11610



CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD	BEARING
C1	50.00'	82.92'	73.74'	S 14°29'51" E
C2	25.00'	44.59'	38.91'	S 10°54'48" E

SITE PLAN APPROVED BY

WAKE COUNTY N.C. P.D.I.

Ivey Shields

02/14/2024 2:57:42 PM

B.M. 2010, PG. 524-525

LEGEND:		
B.M.	Book of Maps	○ Ex. Property Corner
D.B.	Deed Book	● New 3/4" Iron Pipe
PG.	Page	○ Calculated point
S.F.	Square Feet	○ Water Meter
AC.	Acre	Ⓜ Sanitary Sewer Cleanout
—X—	Fence	Ⓢ Sanitary Sewer Manhole
—W—	Water pipe	Ⓟ Power Pedestal
—SS—	Sanitary sewer pipe	Ⓣ Telephone Pedestal
—SD—	Storm drain pipe	ⓐ Cable Pedestal
—OU—	Overhead utility	ⓐ Gas Meter
		Ⓜ AC Condenser

- SURVEY NOTES:**
- ALL EASEMENTS, RIGHT-OF-WAY'S, BUFFERS, SETBACKS AND ADJOINERS, ETC., REFERENCED FROM BOOK OF MAPS 2010, PAGE 524-525 UNLESS OTHERWISE NOTED.
 - SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

SHEET INDEX:	
C-01	SITE PLAN
C-02	EROSION CONTROL PLAN
C-03	QUAD & SOILS MAP OVERLAYS
D-04 - D14	EROSION DETAILS

THE PURPOSE OF THIS PLAN IS FOR PERMITTING PURPOSES ONLY AND SHOULD NOT BE CONSIDERED A CERTIFIED BOUNDARY SURVEY.

LOT DEVELOPMENT PLAN

LOT 6 - WATKINS GLEN AT WAKE FOREST
NEW LIGHT TOWNSHIP, WAKE COUNTY, NC

REVISIONS

DATE: 12/04/2023
DRAWN BY: CM

SCALE: 1" = 60'

SITE PLAN
SHEET C-01

Luke Ryals
Exeter Building Company LLC
900 Ridgefield Drive SE50
Raleigh, NC 27609

WAKE COUNTY, NC 88
TAMMY L. BRUNNER
REGISTER OF DEEDS
PRESENTED & RECORDED ON
07/29/2024 14:46:26

BOOK:019672 PAGE:00373 - 00374

ALTERNATIVE SEWAGE DISPOSAL SYSTEM MAINTENANCE SCHEDULE

To Be Recorded In The Register Of Deed's Office In Wake County.

Owner/Grantor Exeter Building Company LLC Deedbook and Page 27502, 1526
PIN No. 1822730897 Date Installed 17 July 2024
Subdivision Name Watkins Glen Lot No. 6
System Designed by Central Carolina Soil Company LLC Installer David Brantley & Sons Inc

AN ALTERNATIVE OR NON-TRADITIONAL SEWAGE DISPOSAL SYSTEM HAS BEEN INSTALLED ON THIS PROPERTY.

The design specifications and locations for alternative sewage disposal systems are specified or authorized in Regulations Governing Wastewater Treatment and Dispersal in Wake County effective November 21, 1988, amended effective June 25, 2021.

As A Condition Of Issuance Of This Improvements/Operation Permit, The Property Owner Hereby Grants The Wake County Department Of Environmental Services A Right Of Access To The System During Regular Working Hours For Purposes Of Monitoring Compliance With State And Local Regulations, Recorded Maintenance Agreements And Certified Operator Compliance.

This permit requires the use of gravity flow to a mode of subsurface wastewater dispersal. Experience and study have shown that systems require routine maintenance in order to function satisfactorily. In as much as each system must be individually designed and sited, special maintenance requirements may apply to a specific installation; however, the following maintenance schedule is applicable to all pre-treatment systems. For additional information, technical assistance or if a malfunction of the system occurs, contact the Wake County Department of Environmental Services, Telephone: (919) 856-7400.

<u>System Component</u>	<u>Frequency</u>	<u>Maintenance</u>
1. Septic Tank	6-12 months	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation.
	1-3 years	Pump seepage.
2. Pump/Dosing Tank	6-12 months	For future repair system if needed. Check riser conditions (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
3. Supply lines	6-12 months	Check for settling, pipe exposure and leakage. Includes Distribution Box.
4. Drain Field(s)	1-4 weeks	Maintain vegetative cover (mow grass and remove weeds and brush).
	6-12 months	Check for settling, erosion and surfacing of effluent. Check distribution box for damage, unequal flow distribution. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
5. General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over ground absorption field. Practice water conservation to reduce waste water load on system. Do not permit entry or grease and non-domestic waste to system. Use of a garbage disposal is <u>prohibited</u> . Addition of chemical or biological additives has <u>not</u> been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained. <u>Adherence to permitted flow rate.</u>

This system is permitted under S.L. 2014-120 for engineer flow reduction utilizing low flow fixtures and technologies, all of which must remain in use for the life of the applicable system. Neither the State nor any local government shall be liable for any damages by a system approved or permitted pursuant to this section.

Signature of Property Owner

18 July 2024
Date

NORTH CAROLINA Wake County, I, a Notary Public of the County and State aforesaid, certify that
Stephen Mann Owner, Personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 18th day of July, 2024.

My commission expires July 4, 2027 Notary Public Andrew J. Hurst

ANDREW J. HURST
NOTARY PUBLIC
Wake County
North Carolina
My Commission Expires July 4, 2027

Andrew J. Hurst



This Section for Local Health Department Use Only

Initial submittal received: 6/18/2024 by JLA
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 required.)

The following items are missing: _____

Copies of this were sent to the AOWE/PE and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: James Adcock Date of Issuance: 6/21/2024

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.

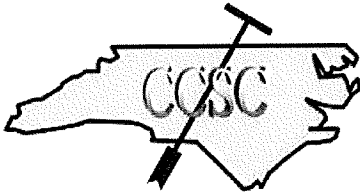
Construction Authorization Expiration Date: 6/20/2029



**Wake County Health and Human Services
Onsite Water Protection**

Approved by: _____
Date: 6/21/2024

***See attached site sketch** This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed AOWE/PE plans attached here. Applicant is responsible for adhering to all State and Local rules, regulations and laws.



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110, Wake Forest, NC 27587
Office Number: 919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for Watkins Glen lot 6,
for issuance of an IP and CA.

For Improvement Permit (IP) issuance:

"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)."

For Construction Authorization (CA) issuance:

"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)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

Owner: EXETER BUILDING COMPANY

Owner's representative: STEPHEN DUNK, COO

Date: 18 JUNE 2024



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

County: Wake Pre-Construction Conference Required: Yes ☐ No ☒
PIN/Lot Identifier: 1822730897
Issued To: Exeter Building Company
Property Location: Watkins Glen, Lot 6
AOWE/PE Plans/Evaluations Provided: Yes ☒ No ☐ If yes, name and license number of AOWE/PE: Jason Hall, AOWE #10004E
Facility Type: Single Family, 4-Bedroom
Number of bedrooms: 4 Number of Occupants: ≤8 Other: _____
☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use
Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☒ No
Crawl Space? ☒ Yes ☐ No Slab Foundation? ☐ Yes ☒ No
Type of Wastewater System* Illg, gravity to serial, LPC's (Initial) Illbg, Pressure manifold, LPC's (Repair)

*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII

Design Daily Flow: 360-PE Flow rec GPD Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process WW

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☒ Yes ☐ No
(if yes, please provide engineering documentation)

Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Type of Water Supply: ☐ Private well ☒ Public well ☐ Shared well ☐ Municipal Supply ☐ Spring ☐ Other: _____

Installation Requirements/Conditions

Septic Tank Size: 1200 gallons Total Trench/Bed Length: 432 feet Trench/Bed Spacing: 9 feet on center
Trench/Bed Width: 36 inches LTAR: .3 gpd/ft² Usable Depth to LC (Initial)*: 23" *Limiting condition
Additional Soil Cover: 6+ inches Slope Corrected Maximum Trench/Bed Depth†: 10 inches * Measured on the downhill side of the trench
Pump Tank Size (if applicable): _____ 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 Required: Yes ☐ No ☒ If yes, please specify details: _____

Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)

Multi-party Agreement Required [.0204(g)]: ☐ Yes ☒ No Declaration of Restrictive Covenants: ☐ Yes ☒ No
Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: ☐ Yes ☒ No
Management Entity Required: ☐ Yes ☒ No Minimum O&M Requirements: _____

Permit conditions:

Divert all water from driveway and foundation drain outlets away from main septic field. Power and water must run as shown to keep 10' setback from repair.
Use D-box for 3 lines as shown on layout. Lines 1-2 will require a step down, but act as one individual line.

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. ***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 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

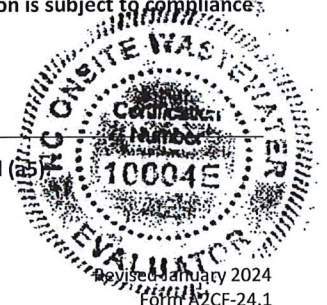
AOWE/PE Print Name: Jason Hall

AOWE/PE Signature: [Signature]

Date: 6/17/24

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a3)

See attached site sketch



System: Gravity to D-box Lines: 1-4, (432')
Low profile chambers 0.3 Soil LTAR
10' Trench Bottom w/Cover
Repair: Pressure Manifold Lines: 5-10, (422')
1in. Low Profile 8' Trench Bottom w/Cover 0.3 Soil LTAR

System: ---
Repair: ---



GRAPHIC SCALE
1" = 60'

Water and Power line route
Run along property line, R/W
and stay 10' from repair

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

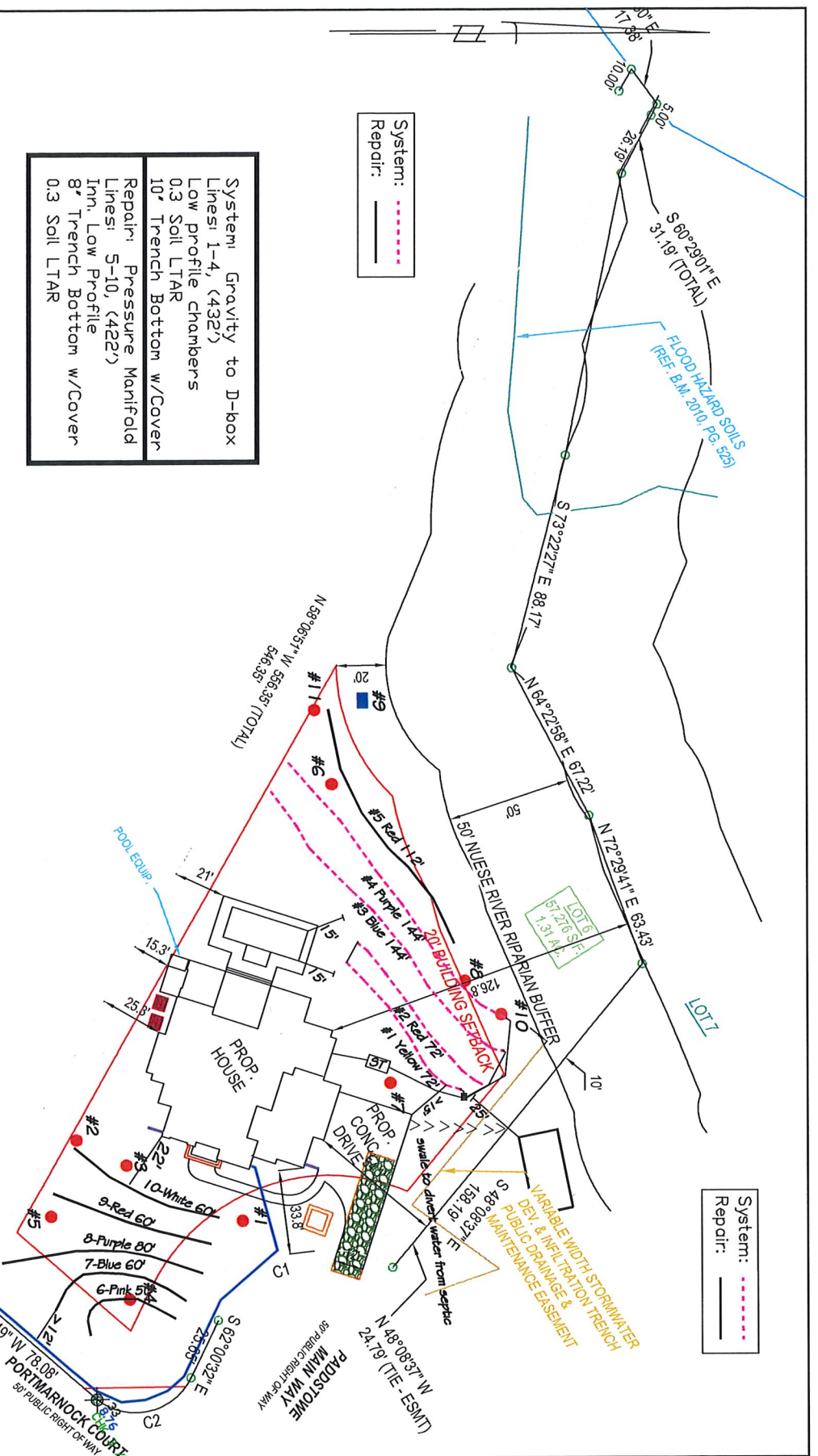
4-Bedroom Septic Layout
Lot 6, Watkins Glenn SD
360 gal/day Flow Reduction
Wake County, North Carolina

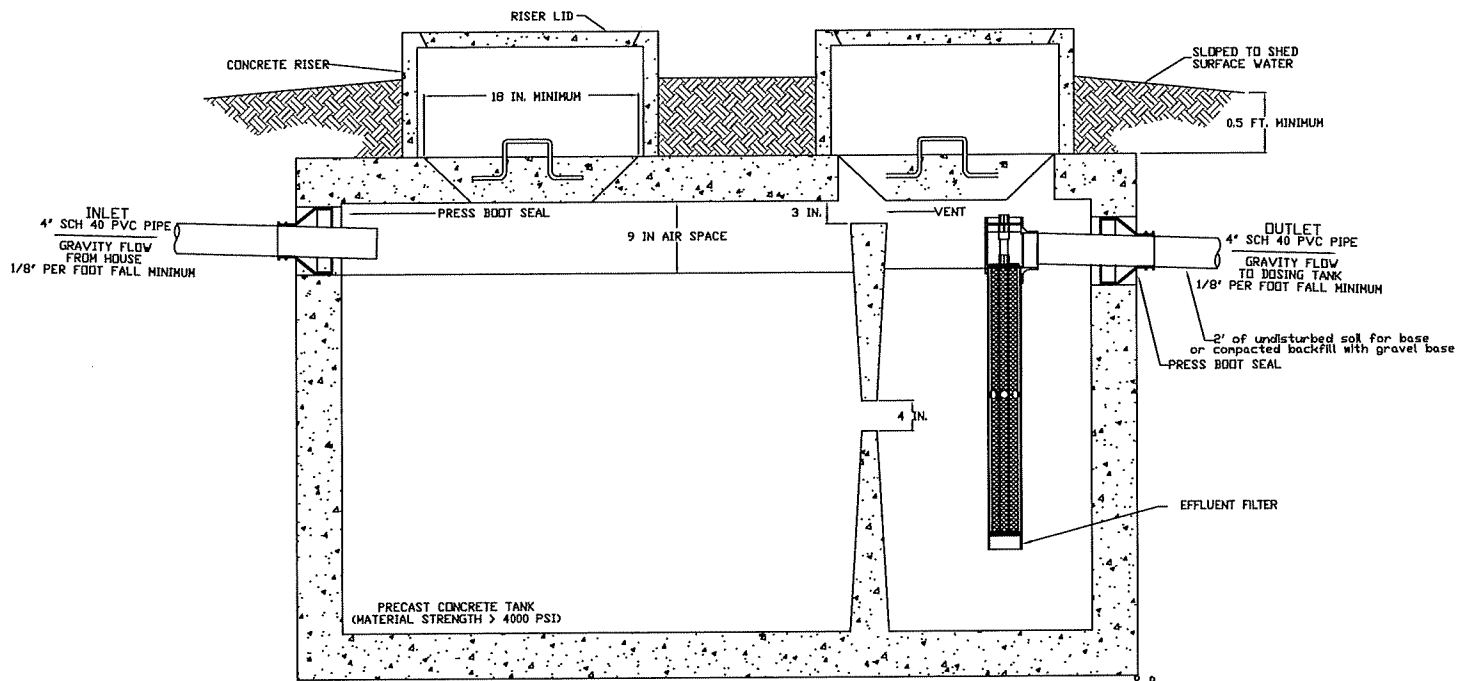
Job#: 4825

Drawn By: JH

Date: 2/11/24

Revision:





1200 GAL SEPTIC TANK SCHEMATIC
NOT TO SCALE

NOTES

1. ALL TANKS SHALL BE LEAK TESTED SUCH THAT EXFILTRATION OCCURS AT A RATE WHICH DOES NOT EXCEED TEN GALLONS PER TWENTY-FOUR HOURS PER 1,000 GALLONS OF TANK CAPACITY
2. ALL TANKS SHALL REST ON A BED OF #57 WASHED GRAVEL. THE MINIMUM THICKNESS OF THE GRAVEL BED IS 6 INCHES.
3. ALL TANKS MUST BE APPROVED FOR USE BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH).
4. INVERTS SHOWN ARE APPROXIMATE. THE INSTALLER SHALL FIELD CONFIRM PRIOR TO CONSTRUCTION.
5. ALL HARDWARE INSTALLED INSIDE OF TANKS SHALL BE OF STAINLESS STEEL.
6. TANK DIMENSIONS VARY BY MANUFACTURER.
7. DRAWDOWN WILL VARY WITH TANK DIMENSIONS. DRAWDOWN SHOWN IS BASED ON 480 GALLONS AT 19.65 GALLONS PER INCH.

THE PUMP TANK.

PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

Features:

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- Gasket prevents bypass.

PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
4. Insert the PL-68 filter into tee.
5. Replace and secure the septic tank cover.

PL-68 Maintenance:

The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

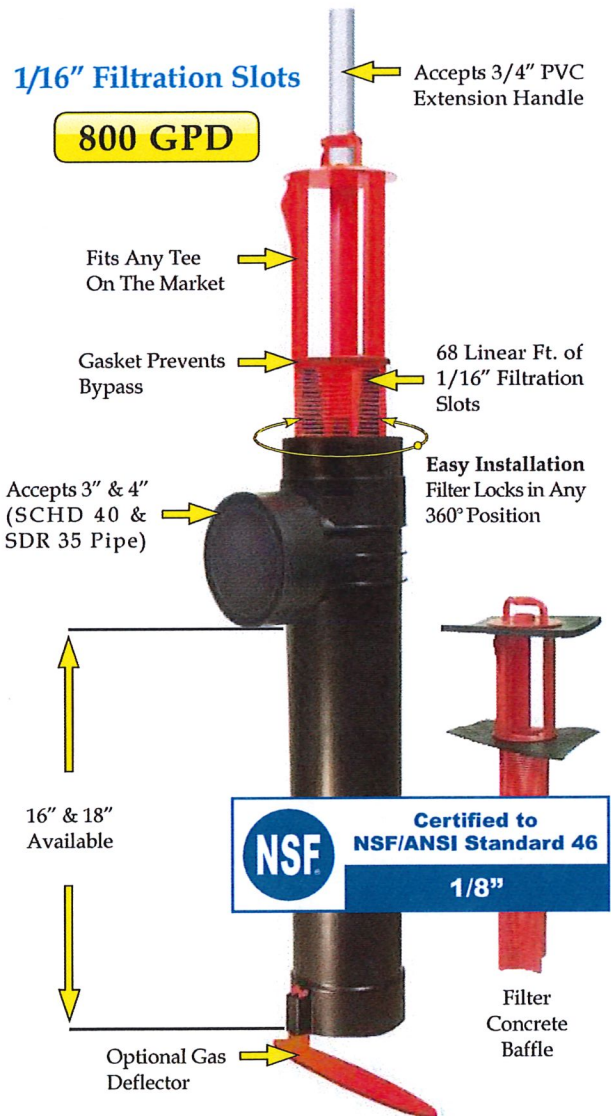
1. Do not use plumbing when filter is removed.
2. Pull PL-68 out of the tee.
3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle
Extend & Lok™



Extend & Lok™
Easily installs
into existing tanks.



Spacer Bushing
4" SCHD 40
to SDR 35



Spacer Bushing
4" SCHD 40
to 110mm Pipe



2" Extender



This Section for Local Health Department Use Only

Initial submittal received: 6/18/2024 by JLA
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:

Copies of this were sent to the LSS and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: James Adcock Date: 6/21/2024

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 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 15A NCAC 18E 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: 6/20/2029



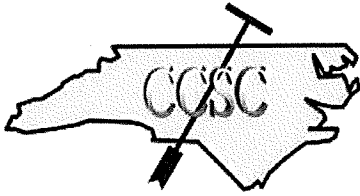
**Wake County Health and Human Services
Onsite Water Protection**

Approved by: _____

Date: 6/21/2024

***See attached**

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. Applicant is responsible for adhering to all State and Local rules, regulations and laws.



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110, Wake Forest, NC 27587
Office Number: 919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for Watkins Glen lot 6,
for issuance of an IP and CA.

For Improvement Permit (IP) issuance:

"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)."

For Construction Authorization (CA) issuance:

"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)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

Owner: EXETER BUILDING COMPANY

Owner's representative: STEPHEN DUNN, COO

Date: 18 JUNE 2024

Permit/File #: HWP-118612-2024



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Chief Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Submittal Includes: ☒ (a2) Improvement Permit ☒ (a2) Construction Authorization ☐ Fee \$ _____

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)

County: Wake
PIN/Lot Identifier: 1822730897
Issued To: Exeter Building Company
Property Location: 2200 Paddstowe Main Way, Wake Forest
Subdivision (if applicable) Watkins Glen Lot #: 6 Block: _____ Section: _____
LSS Report Provided: Yes ☒ No ☐
If yes, name and license number of LSS: Jason Hall, NC LSS #1248
New ☒ Expansion ☐ System Relocation ☐ Change of Use ☐
Facility Type: Single Family, 4-Bedroom
Number of bedrooms: 4 Number of Occupants: ≤8 Other: _____
Design Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process Wastewater
Proposed Design Daily Flow: 360-PE FR GPD Proposed LTAR (Initial): .3 Proposed LTAR (Repair): .3
Proposed Wastewater System Type*: IIIg, Gravity to Serial, Innovative (Initial) Pump Required: ☐ Yes ☒ No ☒ May be required
Proposed Wastewater System Type*: IIIbg, Pressure manifold to LPC (Repair) Pump Required: ☒ Yes ☐ No ☐ May be required
**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*
Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW
Saprolite System (Initial): ☐ Yes ☒ No Saprolite System (Repair): ☐ Yes ☒ No
Fill System (Initial): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Fill System (Repair): ☐ Yes ☒ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Initial)*: 23" Usable Depth to LC (Repair)*: 23" * **Limiting Condition**
Max. Trench Depth (Initial)*: 10" Max. Trench Depth (Repair)*: 8" * **Measured on the downhill side of the trench**
Artificial Drainage Required: ☐ Yes ☒ No If yes, please specify details: _____
Type of Water Supply: ☐ Private well ☒ Public well ☐ Shared well ☐ Municipal Supply ☐ Spring ☐ Other: _____
Drainfield location meets requirements of Rule .0508: Yes ☒ No ☐ Drainfield location meets requirements of Rule .0601: Yes ☒ No ☐
Permit valid for: ☒ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Licensed Soil Scientist Print Name: Jason Hall

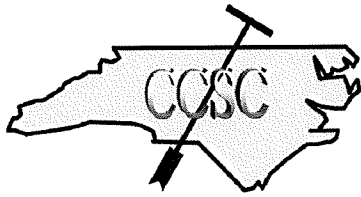
Licensed Soil Scientist Signature: [Signature]

Date: 6/17/24

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch





Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110

Wake Forest, NC 27587

919-569-6704

February 11, 2024

June 13, 2024

Job # 4825

Exeter Homes
Benjamin Areno
900 Ridgefield Drive
Suite 50
Raleigh, NC 27609

RE: Preliminary soil/site evaluation for single family wastewater approval in Watkins Glen SD, lot 6 (4-bedroom) in Wake County pursuant to and meets the requirements of G.S. 130A-335(a2)."

Dear Mr. Areno:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation on the aforementioned lot to determine the areas of provisionally suitable soils that are suitable for subsurface wastewater disposal systems (conventional, Accepted & Innovative). **"The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."** The soil/site evaluation was performed using a hand auger in January 2024, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15A NCAC 18E "Wastewater Treatment and Dispersal Systems". From this evaluation, CCSC laid out and located the septic layout and gps'd for site plan drawing purposes. Please note that the lot lines must be clearly marked by your surveyor prior to system installation by your installer to verify all setbacks before digging.

The lot is proposed to have a 4-bedroom system 360 Gal/day for the house (flow reduction provided by PE). A septic system field layout was completed based on the house location and property lines surveyed in the field.

The proposed Initial system for the house is a Gravity to D-box using lines 1-4 totaling 432 feet of Low Profile Chambers. The repair field is a pressure manifold to

low profile chambers requiring lines 5-10 using 422 feet of innovative chambers. The septic tank for the house shall be a minimum 1200 gallons with risers.

Based on the findings during the field evaluation, the area on the attached map has at least 23 inches of suitable soils for low profile chamber septic system for the initial system. The assigned LTAR for the site is 0.30 gal/day/ft² with a maximum depth of 10 inches for the initial system due to slope correction. The repair field has a minimum soil depth of 23" to a restrictive horizon and an 8" trench bottom with cover.

Septic Installation:

The septic system for the lot should be installed during dry soil conditions (no rain events within 72 hours). The septic system should be installed on contour while maintaining all required setbacks.

Setbacks:

- Septic and Pump Tanks
 - 10' minimum from property lines
 - 5' minimum from house (see septic design)
- Septic Lines
 - 10' minimum from property lines
 - 5' minimum from house (see septic design)
- Manifold's and D-Box's
 - 10' from property lines
- Supply Lines
 - 5' minimum from property lines

Grading:

No grading should be completed within the initial and repair septic areas that change the natural grade of the area. There should be no cutting or filling within the septic areas as well. When grading the lot, not cuts of 2' or greater should be within 15' of the septic areas. If a cut is required near the septic area, keep the cut around 6-8 inches in depth.

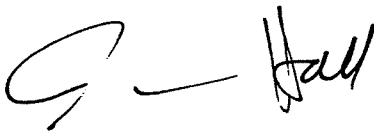
HOUSE:

- Initial System: Gravity to d-box, lines 1-4 totaling 432'
- 360 gal/day flow rate (4-bedroom with PE flow reduction)
- 1200 gallon septic tank with risers
- 10" maximum trench depth for initial with cover
- 0.30 LTAR
- No grading/filling septic areas
- 5' setback for all utility lines and 10' for water lines.
- No cuts >2' within 15' of septic areas
- Keep tanks and drain lines 10' from property lines
- Keep supply line >5' property lines
- Install in dry soil conditions (No rain events within 72 hours)
- Maintain natural contours when clearing the lot

This letter discusses the location of provisionally suitable soils for subsurface wastewater disposal systems and does not guarantee the future function of any wastewater system on sites. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and design for on-site wastewater disposal systems.

If you have any questions regarding the findings on the attached map or in this report, please feel free contact me at anytime. Thank you for allowing Central Carolina Soil Consulting to perform this site evaluation for you.

Sincerely,



Jason Hall

NC Licensed Soil Scientist #1248



Encl: Soil Map & septic layout

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

OWNER: _____ Exeter _____ DATE EVALUATED: 1/19/24 & 5-30-24
ADDRESS: _____
PROPOSED FACILITY: 4-bedroom PROPOSED DESIGN FLOW (.0400): 360 GPD-PE FR PROPERTY SIZE: _____
LOCATION OF SITE: Watkins Glen lot 6 PROPERTY RECORDED: Yes
WATER SUPPLY: ☒ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☐ Other _____ WATER SUPPLY SETBACK: _____
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Domestic ☐ High Strength ☐ IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRECTION
			.0503 TEXTURE/ STRUCTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZON		
1	LS	AE 0-3	SL GR	VFR NS NP SEXP					S	3"
	6%	Bt1 3-11	SCL SBK	FR SS SP SEXP					0.30	
		Bt2 11-37	C SBK	FR SS SP SEXP						
		BC 37-46	W-SBK CL	FR SS SP SEXP						
		C 46-48				46	L-II			
2	LS	AE 0-21	SL GR	VFR NS NP SEXP					S	3"
	6%	Bt1 21-26	CL SBK	FR SS SP SEXP					0.30	
		Bt2 26+			10YR 7/2	26				
3	LS	AE 0-14	SL GR	VFR NS NP SEXP					S	3"
	6%	Bt1 14-21	CL SBK	FR SS SP SEXP					0.30	
		Bt2 21-23	C SBK	FR SS SP SEXP						
		Bt3 23+			10YR 7/2	23				
4	LS	AE 0-18	SL GR	VFR NS NP SEXP					S	3"
	6%	Bt1 18-25	CL SBK	FR SS SP SEXP					0.30	
		Bt2 25+			10YR 7/2	25				
5	LS	AE 0-14	SL GR	VFR NS NP SEXP					S	3"
	6%	Bt1 14-27	SCL SBK	FR SS SP SEXP					0.30	
		Bt2 27+			10YR 7/2	27				
6	LS	AE 0-19	SL GR	VFR NS NP SEXP					S	3"
	8	Bt1 19-23	SCL SBK	FR SS SP SEXP					0.30	
		Bt2 23-38	C SBK	FR SS SP SEXP						
		Bt3 28+	C, SBK	FI, SS, SP, SEXP	10YR 7/2	28				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509): Suitable EVALUATED BY: Jason Hall OTHER(S) PRESENT: _____
Available Space (.0508)	Yes	YEs	
System Type(s)	innovative	innovative	
Site LTAR	.3	.3	
Maximum Trench Depth			

Comments: _____

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)		CL (Clay loam)		None		EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)					VP (Very plastic)	
S (Shoulder slope)		IV				SC (Sandy clay)	0.1 - 0.4	0.05 - 0.2
T (Terrace)	SiC (Silty clay)		EXP (Expansive)					
TS (Toe Slope)	C (Clay)							
		O (Organic)	None					

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface

DEPTH OF FILL In inches from land surface

RESTRICTIVE HORIZON Thickness and depth from land surface

SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits or auger borings.

SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

CLASSIFICATION S (Suitable) or U (Unsuitable)

SOIL/SITE EVALUATION
(Continuation Sheet-Complete all field in full)

Page ____ of ____

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRECTION
			.0503 TEXTURE/ STRUCTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZON		
7	LS	AE 0-9	SL GR	VFR NS NP SEXP					S	3"
	7%	Bt1 9-36	Clay, SBK	FI, SS, SP, SEXP		36			0.30	
		Bt2 36+	C SBK	FI SS SP SEXP	7.5 YR 6/2, 10%					
8	LS	AE 0-8	SL GR	VFR NS NP SEXP					S	3"
	8%	Bt1 8-38	Clay SBK	FI SS SP SEXP					0.30	
		BC, 28+	CL, Wk SBK	FR SS SP SEXP	10 YR 6/2, 15%	28				
9	FS	AE 0-18	SL GR	VFR NS NP SEXP					S. 1	2"
	5%	B, 18+	SL, GR	VFR, NS, NP	10 YR 6/2, 35%	UN				
			C SBK	FR SS SP SEXP						
10	FS, 2%	AE, 0-11	SL, GR	VFR, NS, NP						1"
		Bt, 11-23	SCL, SBK	FR, SS, SP, SEXP		S-23			S.325	
		Bt2, 23+	SCL, SBK	FI,SS, SP, SEXP	10 YR 6/2, 20%	UN				
11	FS, 2%	AE, 0-14	SL, GR	VFR, NS, NP						1"
		Bt, 14-27	SCL, SBK	FR, SS, SP, SEXP		S-27			S.325	
		Bt2, 27+	Clay, SBK	FI, SS, SP, SEXP	10 YR 6/2, 15%	UN				

COMMENTS: _____

