

ROY COOPER • Governor

MANDY COHEN, MD, MPH • Secretary

MARK T. BENTON • Assistant Secretary for Public Health

COMMON FORM FOR LICENSED SOIL SCIENTIST COVID-19 PERMIT OPTION FOR NON-ENGINEERED SYSTEMS

Division of Public Health

See Instructions for Use in Appendix A

Except for "Date received", this Section to be completed by the LSS in accordance with S.L. 2020-3, Section 4.18 and G.S. 130A-336.2

LHD USE ONLY: Initial submittal of this NOI received:	by		
	Date	Initials	
PART 1: Notice of Intent to Construct (NOI)			
☐ New ☐ Expansion			
Repair – LHD Permit Number N/A Repair – E	OP/LSS Permit Numb	er	
Facility Owner's name: (Owner, Company Name, Utility, Pa	rtnership, Individual,	etc.):	
Joseph Lane Tiffany Justice			
Mailing address: 9301 NC 27 W City	Lillington	State: NC Z	in: 27546
Telephone number: 3175380644 E-mail Add			
Licensed Soil Scientist (LSS) name: Thomas Boyce			1
Mailing address: PO Box 81 City	, Pittsboro	State: NC Zin	27312
Telephone number: 9198688135 E-mail Add	ress. nclss1241@	gmail.com	··
Licensed Geologist (LG) (if applicable) name: N/A			
Mailing address: N/A City	. N/A	state: N/A	zin. N/A
Telephone number: N/A E-mail Add	N/A	State /	ZIP
4. Proof of Errors and Omissions or other appropriate liability			ttached
that includes the name of the insurer, name of the insured	and the effective dat	es of coverage:	
■ LSS ☐ LG			
5. Property location (physical address, tax parcel identificatio		ion lot, block numb	er of the
property to be permitted): 9301 NC 27 W Lillington	n NC		
County Name: Harnett			
6. Type of facility: Place of residence No. Bedrooms:	3 No. Occu	pants: Max 6	
Place of business Basis for flow cal	culation:		
Place of public assembly Basis for flo	ow calculation:		

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH

LOCATION: 5605 Six Forks Road, Raleigh, NC 27609

MAILING ADDRESS: 1642 Mail Service Center, Raleigh, NC 27699-1642

www.ncdhhs.gov • TEL: 919-707-5854 • FAX: 919-845-3972

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

State of NC L	C LSS Permit Option COVID-19 LHD Reference:	
7.	Factors that would affect the wastewater load: N/A	
8.	Type, location, and classification (per Rule .1961) of wastewater system:	8
9.	Design wastewater flow: 360 gpd	
	Design wastewater strength: 🔳 domestic 🗌 high strength 🔲 industrial process (For high strength and	
	industrial process wastewater, a Professional Engineer licensed in accordance with G.S. 89C shall design the on-site wastewater sy	stem.)
10.	0. A plat as defined in G.S. 130A-334(7a) is attached: Yes No	
	A site plan as defined in G.S. 130A-334(13a) is attached: Yes No	
	In accordance with G.S. 130A-335(f), an LSS COVID-19 Permit with a plat is valid without expiration ar	nd an
	LSS COVID-19 Permit with a site plan is valid for five years.	
11.	1. Owner meets requirements of ownership or control of the system per 15A NCAC 18A .1938(j): 🔳 Yes	☐ No
12.	2. Easement, right of way or encroachment agreement required per 15A NCAC 18A .1938(j):	No
	If yes, documentation filed inCounty Register of Deeds in Deed book Page	
13.	3. Multi-party agreements required, as applicable, pursuant to 15A NCAC 18A .1937(h): Yes	
	If yes, agreements filed inCounty Register of Deeds in Deed book Page	
14.	4. Location of proposed or existing wells (drinking water, irrigation, geothermal, groundwater monitoring,	
	sampling, etc.) and any potable and non-potable water conveyance lines is indicated on attached plans	
	complies with 15A NCAC 18A .1950: ■ Yes No	
	This is a saprolite system. Yes No	
15.	5. Evaluation(s) of soil conditions and site features in accordance with G.S. 130A-335(a1) signed and sealer	d hy a
	LSS is attached: Yes No	a by a
16.	5. Evaluation of geologic and hydrogeologic conditions signed and sealed by a LG is attached Yes	■ NA
17.	7. Proposed landscape, site, drainage, or soil modifications are attached: Yes NA	
Atte	ttestation by LSS pursuant to S.L. 2020-3, Section 4.18 and G.S. 130A-336.2	
I, <u>T</u>	Thomas Boycehereby attest that the information required to be include	d with
this	Licensed Soil Scientist (Print Name) Also Notice of Intent to Construct is accurate and complete to the best of my knowledge and that the propose	ed
syst	stem shall meet applicable federal, State, and local laws, regulations, rules and ordinances, and that the	
	roposed system does not require a Professional Engineer, licensed in accordance with G.S. 89C, and in accordance	
	ith 15A NCAC 18A .1938 and activities determined to be engineering as determined by the North Carolina Examiners for Engineers and Surveyors."	board
	Thomas Boyce 4/19/2021	
Signo	gnature of Licensed Soil Scientist Date	

LHD Reference:	
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NOTES:

LIABILITY: The Department, the Department's authorized agents, or local health departments shall have no liability for wastewater systems designed, constructed, and installed pursuant to an LSS COVID-19 Permit Option [S.L. 2020-3, Section 4.18(d) and G.S. 130A-336.2]

RIGHT OF ENTRY: The submittal of this **Notice of Intent to Construct** grants right of entry to the Local Health Department and the State to the referenced property.

ISSUANCE OF BUILDING PERMIT: Once the LHD deems that the Notice of Intent to Construct is complete via signature in the section below, the owner may apply to the local permitting agency for a permit for electrical, plumbing, heating, air conditioning or other construction, location or relocation activity under any provision of general or special law pursuant to G.S. 130A-338.

LHD	Reference		

This section for Local Health Department use only.

PART 2: LHD Completeness Review of the Notice of Intent to Construct

"(c) Completeness Review for Notice of Intent to Construct. —The local health department shall determine whether the notice of intent to construct required pursuant to subsection (b) of this section is complete within five business days after receiving the notice of intent to construct. A determination of completeness means that the notice of intent to construct includes all of the required components. If the local health department determines that the notice of intent to construct is incomplete, the local health department shall notify the owner and list the information needed to complete the notice. The owner may then submit additional information to the local health department to cure the deficiencies in the initial notice. The local health department shall make a final determination as to whether the notice of intent to construct is complete within five business days after the department receives the additional information. If the local health department fails to act within any time period set out in this subsection, the owner may treat the failure to act as a determination of completeness. The owner shall be able to apply for the building permit for the project upon the decision of completeness of the notice of intent by the local health department or if the local health department fails to act within the five business day time period."

	review for completeness of this Notice of Intent was conduct is determined to be:	ed in accord	lance with	G.S. 130A-33	6.2(c). This
	INCOMPLETE (If box is checked, Information in this section	is required.))		
Base	ed upon review of information submitted in Part 1, the follow	ing items are	e missing:		
Сор	ies of this form listing missing items were sent to the LSS and	the Owner o	on		
via	with directions to re-submit missir	ng items usin	ng Page 5 c	Date of this form.	
	Email, FAX, USPS, hand-delivered				
	Print Name of Authorized Agent of the LHD Signature of A	uthorized Agen	t of the LHD		Date
	COMPLETE (If box is checked, information in this section is r	required.)			
Base	ed upon review of information submitted in Part 1 of this form	n, this NOI is	deemed (COMPLETE.	
Copi	es of this signed form were sent to the LSS and the Owner on	·	via Date	Email, FAX, USI	PS, hand-delivered
А со	py of this NOI and tracking information was sent to the State	on	via	Email, FAX, US	PS, hand-delivered
	Print Name of Authorized Agent of the LHD Signature of Ac	uthorized Agent	t of the LHD		Date

HD	Reference:		

This Se	ection is for use by owner to submit item Resubmittals must be acc			
LUD LISE ONLY. This N		500 N	4.0 	
LHD USE ONLY: This is	IOI resubmittal received:	Date	by	
tem # from initial NOI	Resubmittal descrip	tion		
Attestation by LSS pursi	uant to S.L. 2020-3, Section 4	1.18		
ı	her	ehy attest that t	he information required to	he included with
	ntist (Print Name)	eby access char c	ne imormation required to	be included with
	Construct is accurate and con	. 7		at the proposed
system shall meet applic	cable federal, State, and loca	laws, regulation	ns, rules, and ordinances.	
				_
Signature of Licensed Soil Scien	ntist		Date	
The	section below is for Local Health Depart	ment use after submit	al of items noted as missing above.	
I HD Follow-un Complet	eness Review of Notice of In	tent to Construc	<i>+</i>	
and tollow up complete	eness heriew of motice of m	ient to construc	•	
	r completeness of this Notice	and Intent was	conducted in accordance v	with G.S. 130A-
336.2(c). This NOI is det	ermined to be:			
☐ INCOMPLETE				
	formation in the RESUBMITT			
the following items from	n Part 1 of this form remain n	nissing:		
Copies of this signed for	m were sent to the LSS and t	he Owner on	via	
			Date Email, FAX, USPS, H	and-delivered
Print name of authorized Ag	ent of the LHD Sign	nature of authorized	Agent of the LHD	Date
COMPLETE				
	formation submitted in the F	ESUBMITTAL ab	ove in addition to informat	ion provided in
Part 1 of this form, this I	NOI is deemed complete.			
Copies of this signed for	m were sent to the LSS and t	he Owner on	via	
				PS, Hand-delivered
A complete copy of this	form with tracking information	on was sent to t	ne State:via	
			Date Email, FA	AX, USPS, hand-deliver
Print name of authorized Ag	ent of the LHD Sign	nature of authorized	Agent of the LHD	Date

DHHS/EHS/OSWPB –LSS COVID-19 COMMON FORM Effective May 5, 2020

Page 5 of 6

Authorization to Operate (ATO) PART 3: Except for date received, the Section below is to be completed by the Owner. LHD USE ONLY: Initial submittal of request for ATO received: Date Initials Date of Post-construction Conference: The following items are included in this submittal for an Authorization to Operate under an LSS COVID-19 permit: Signed and sealed copy of the LSS's report that includes: a. Signed and sealed evaluation of soil conditions and site features No YPS b. Drawings, specifications, plans Yes No c. Reports on special inspections and final inspection Yes No d. Management Program manual, including ORC contract, when applicable Yes No e. On-site Wastewater Contractor's signed statement Yes No Fee (as applicable) Yes No Notarized letter documenting Owner's acceptance of the system from the LSS Yes No 4. On-site Wastewater Contractor name: Marlin Wastewater Services License number: 19231 PO Box 865 West End Mailing address: Telephone number: (919)798-5888 E-mail Address: jeff@marlinw.com 5. Proof of Errors and Omissions or other appropriate liability insurance for the On-site Wastewater Contractor is attached and includes the name of the insurer, name of the insured, and the effective dates of coverage. X Yes No Attestation by the Owner for Authorization to Operate hereby attest that all items indicated above have been provided to the Print name of Owner County LHD and the system shall meet applicable federal, State, and local laws, regulations, rules and ordinances. Signature of Owner This section for LHD Use Only. LHD Review of required information for the ATO INCOMPLETE Based upon review of information submitted by the Owner in the Section above, the following items are missing from the information required for an Authorization to Operate for an LSS COVID-19 permit: Copies of this signed form were sent to the LSS and the Owner on via Date Email, FAX, USPS, Hand-delivered Print name of authorized Agent of the LHD Signature of authorized Agent of the LHD Date COMPLETE Based upon review of information submitted by the Owner in the Section above, this Authorization to Operate is hereby issued in accordance with G.S. 130A-336.2(m). A copy of this complete NOI/ATO with tracking information was sent to the State on via Email, FAX, USPS, Hand-delivered Print name of authorized Agent of the LHD Signature of authorized Agent of the LHD

ISSUANCE OF CERTIFICATE OF OCCUPANCY: Once the LHD determines completeness based upon the ATO submission, the owner may apply to the local permitting agency for permanent electrical service to a residence, place of business or place of public assembly pursuant to G.S. 130A-339.

DHHS/EHS/OSWPB –LSS COVID-19 COMMON FORM Effective May 5, 2020

NOT FOR LEGAL USE



CERTIFICATE OF LIABILITY INSURANCE

10/19/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	Terry Riney Agency, Inc. 11 Trotter Hills Circle Pinehurst	NC	28374-7930	kelli@rineyagency.com insurer(s) affording coverage	0)295-8980 NAIC#
				INSURER A :Erie Insurance Exchange	E28
INSURED	Marlin Wastewater Services, LLC P.O. Box 865 West End	NC	27376-	INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	
COVERAGES CERTIFICATE NUMBER:				REVISION NUMBER:	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s	
A	CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO- JECT LOC OTHER:		Q31-0122835	07/01/2020		EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	\$ 1,00 \$ \$ 1,00 \$ 2,00	0,000 0,000 5,000 0,000 0,000
A	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS X HIRED AUTOS X AUTOS X AUTOS X AUTOS		Q07-0132925	07/01/2020	07/01/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	s 1,00 s s s	0,000
	UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE AGGREGATE	\$ \$ \$	
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Q91-0104617	07/01/2020	07/01/2021	X PER OTH- E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	s 1,00	0,000
Α	Contractor's Errors & Ommissions		Q31-0122835	07/01/2020	07/01/2021	Each Occurrence Aggregate Deductible		0,000 0,000 1,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Septic tank repair and service

CERTIFICATE HOLDER	CANCELLATION	AI 2NE1SZ
	THE EXPIRATIO	THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE IN DATE THEREOF, NOTICE WILL BE DELIVERED IN THE THE POLICY PROVISIONS.
	- AUTHORIZED REPRESE	Kelli R. Stark

Fax:() -

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Markel Insurance Company



PROFESSIONAL LIABILITY INSURANCE DECLARATIONS

Claims Made and Reported Coverage: The coverage afforded by this policy is limited to liability for only those Claims that are first made against the Insured during the Policy Period or the Extended Reporting Period, if exercised, and reported to Markel Insurance Company during the Policy Period or the Extended Reporting Period, if exercised, or within 60 days after the expiration of the Policy Period or the Extended Reporting Period, if exercised.

Notice: This policy contains provisions that reduce the Limits of Liability stated in the policy by the costs of legal defense and permit legal defense costs to be applied against the deductible, unless the policy is amended by endorsement. Please read the policy carefully.

POLICY NUMBER: MEO1522-02

RENEWAL OF POLICY: MEO1522-01

NAMED INSURED: Thomas Boyce

BUSINESS ADDRESS: 2560 Silk Oak Rd Siler City, NC 27344

POLICY PERIOD:

From 10/15/2020 to 10/15/2021

12:01 A.M. Standard Time at address of Insured stated above.

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, THE COMPANY AGREES WITH THE NAMED INSURED TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

1. PROFESSIONAL SERVICES: soil scientist

2. LIMITS OF LIABILITY

Professional Liability Coverage

A.	Each Claim:	\$1,000,000
B.	Policy Aggregate:	\$1,000,000

Additional Payments

MU	ditional Payments	
A.	Contingent Bodily Injury And Property Damage	\$0
B.	Pollution	\$10,000
C.	Pre-Claim Assistance Expenses	\$20,000
D.	Sexual Abuse	\$10,000
	Third Party Discrimination	\$25,000

E. Third Party Discrimination

Supplementary Payments

A. Disciplinary Proceeding \$25,000 per Policy Period

B. Loss Of Earnings And Expense Reimbursement \$10,000
C. Public Relations Expenses \$5,000
D. Subpoena And Record Request Assistance \$5,000

Producer Number, Name and Mailing Address

98496

Wade Associates, LLC. - New Bern

301 S Front St, Suite 3 New Bern, NC, 28560

MDST 1000 07 17



INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

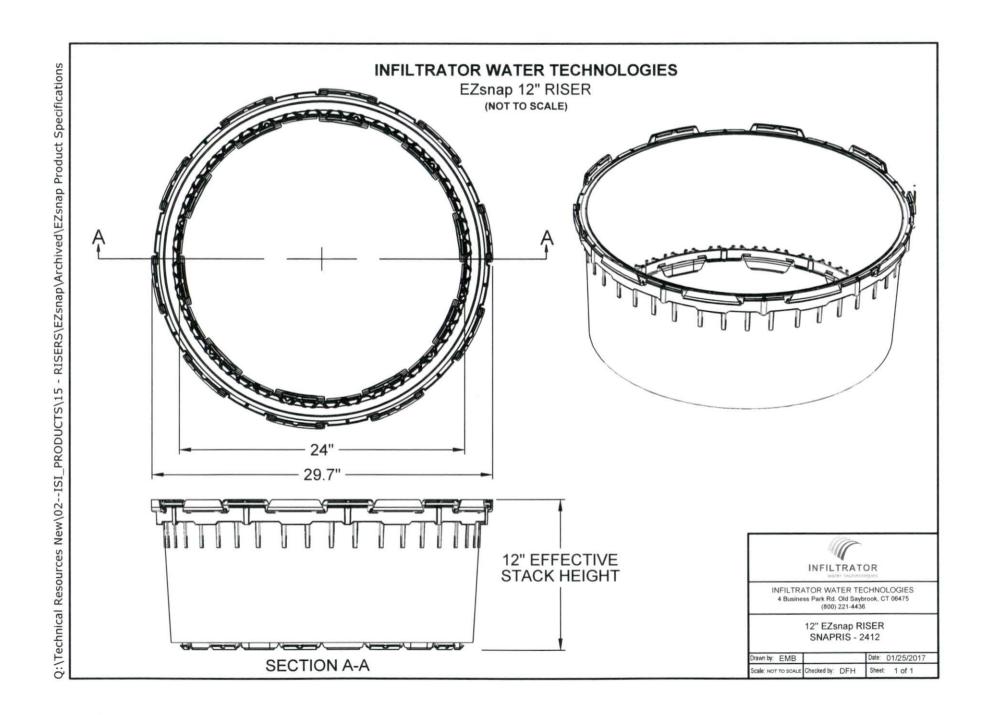
- (a) The structural integrity of each chamber, endcap and other accessory manufactured by Infiltrator (collectively referred to as "Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's installation instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date upon which a septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required for the septic system by applicable law, the one (1) year warranty period will begin upon the date that installation of the septic system commences. In order to exercise its warranty rights, Holder must notify Infiltrator in writing at its corporate headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for those Units determined by Infiltrator to be defective and covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.
- (b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- (c) This Limited Warranty shall be void if any part of the chamber system (chamber, endcap or other accessory) is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty.

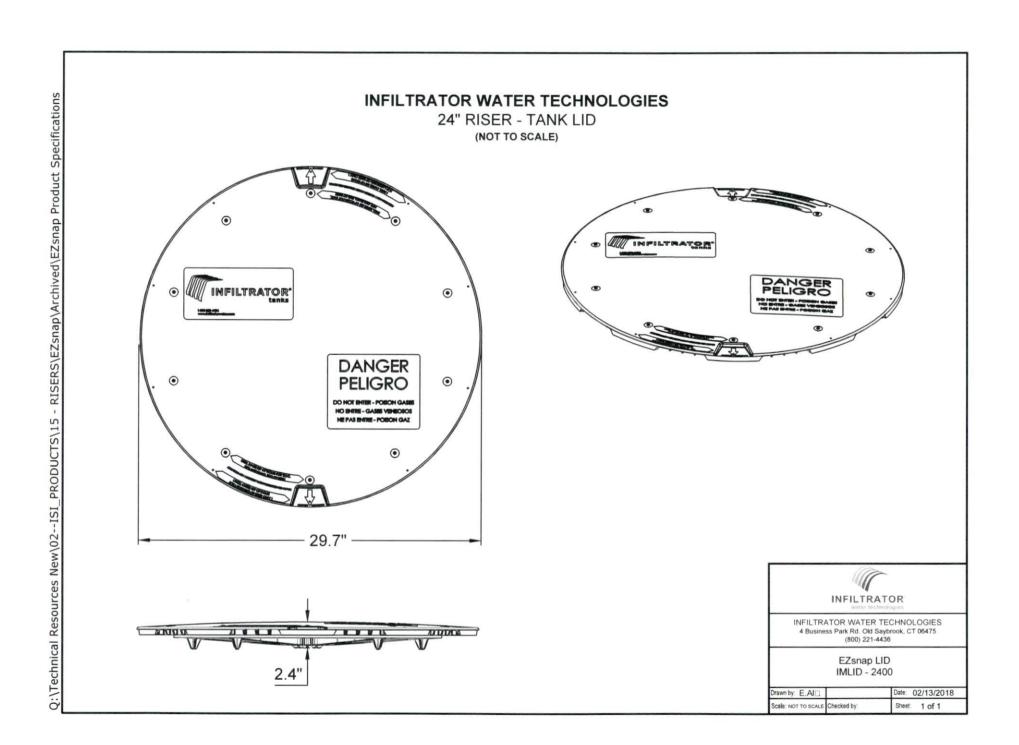
Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

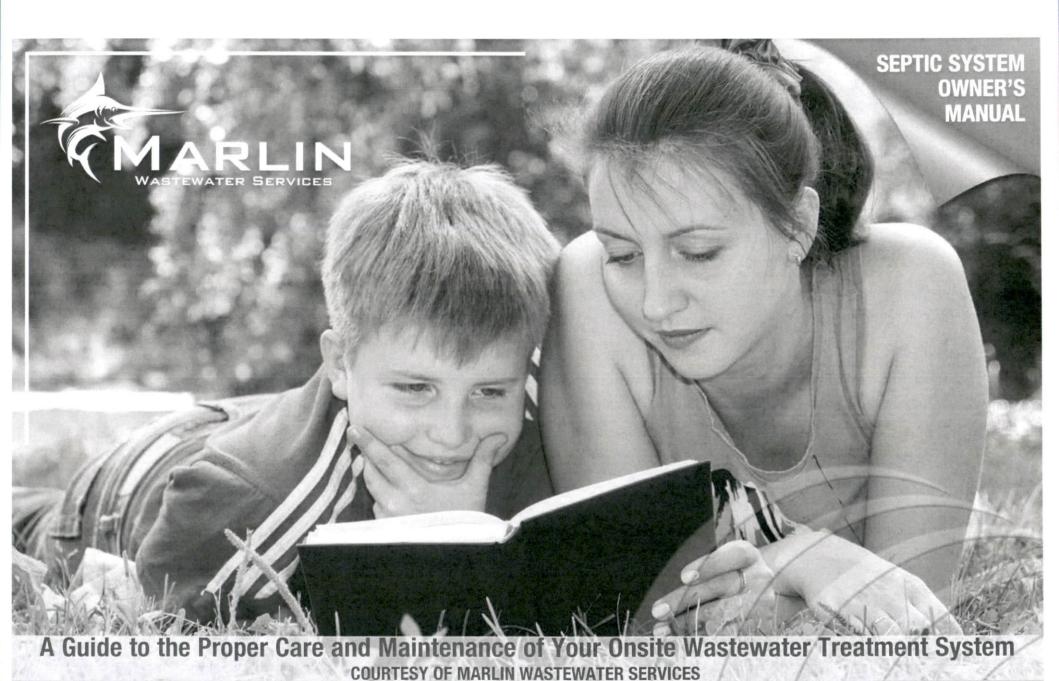
(d) No representative of Infiltrator has the authority to change this Limited Warranty in any manner whatsoever, or to extend this Limited Warranty. No warranty applies to any party other than the original Holder.

The above represents the standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's corporate headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

4 Business Park Road PO Box 768 • Old Saybrook, CT 06475 Phone 1-800-221-4436 • Fax 860-577-7001 www.infiltratorsystems.com







Page 13 of 34

Document Ref: LWAPM-WUQV6-94NWZ-WM3DF

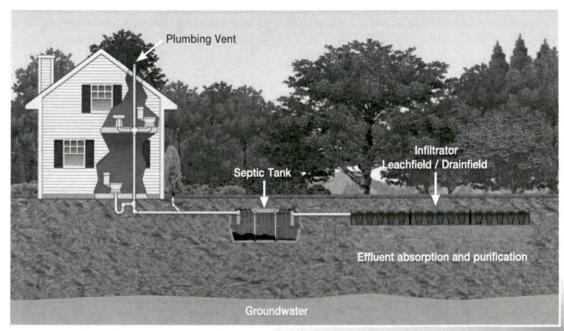
A RESIDENTIAL SEPTIC SYSTEM:

Your onsite wastewater treatment plant

What is a Septic System?

A septic system is an onsite wastewater treatment system that processes and purifies household waste (effluent). The effluent consists of blackwater (toilet wastes) and graywater (kitchen sink, bathtub and laundry wastes).

A septic system has two components: a septic tank and a leachfield or drainfield. Primary treatment occurs in the septic tank, where bacteria digest organic materials in the wastewater. The effluent then flows into the leachfield for secondary treatment. Here, bacteria complete the digestion and purification process as the wastewater slowly leaches or infiltrates into the soil.



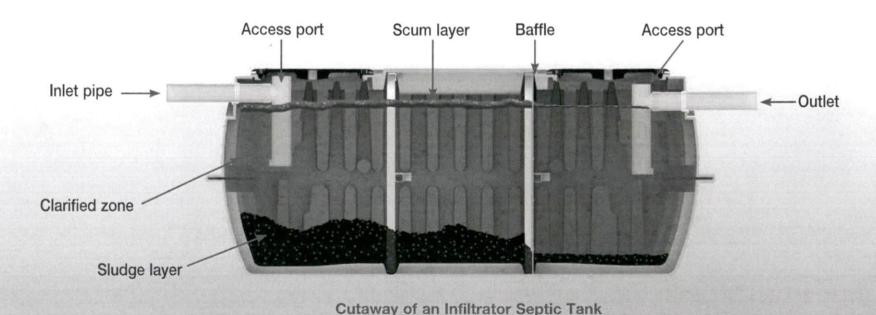
A standard septic system has two components: a septic tank and a leachfield.

SYSTEM COMPONENTS: THE SEPTIC TANK

The septic tank is a **watertight underground** box, about eight feet long, four feet wide, and five feet deep. It typically has at least a 1,000-gallon capacity for retaining, storing, and treating solids, in addition to releasing effluent into the **leachfield**, sometimes called a **drainfield**.

As wastewater flows into the tank, heavy solids settle to the bottom into a **sludge layer**, while grease and fats float to the top forming a layer of **scum**. Between these two layers is a clear zone of liquid called the **clarified zone**.

Found in all three of these layers are **billions of bacteria** that live naturally in the tank and perform the first phase of treatment to break down solid matter. The bacteria digests the solid materials. In the process, gases are produced, which are vented from the septic tank through the plumbing vent on your rooftop.



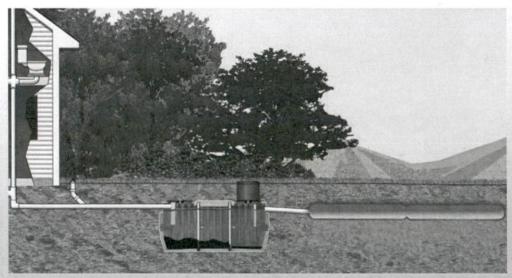
The septic tank retains, stores and treats solids before releasing effluent into the leachfield.

SYSTEM COMPONENTS: THE LEACHFIELD

From the septic tank, partially treated effluent flows into a leachfield, which typically has two or more trenches. This is where effluent is naturally purified as it percolates down through the soil.

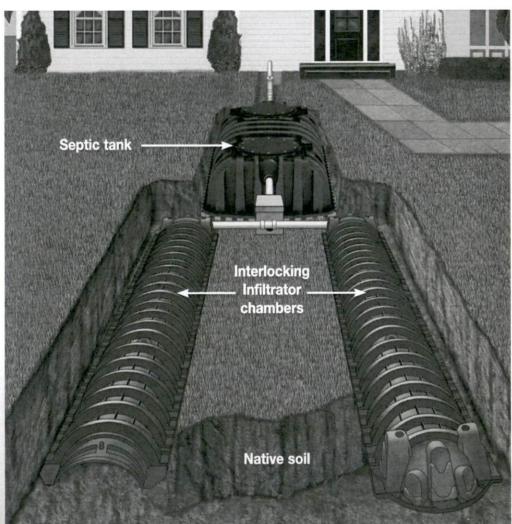
For proper effluent purification, the distance between the trench bottom and the water table should be equal to or greater than the minimum distance allowed by your local health department. The soil acts as a biological filter, removing harmful substances before the effluent reaches the groundwater.

Infiltrator Water Technologies manufactures chamber systems and EZflow Geosynthetic Aggregate systems which are both used in leachfield installations.

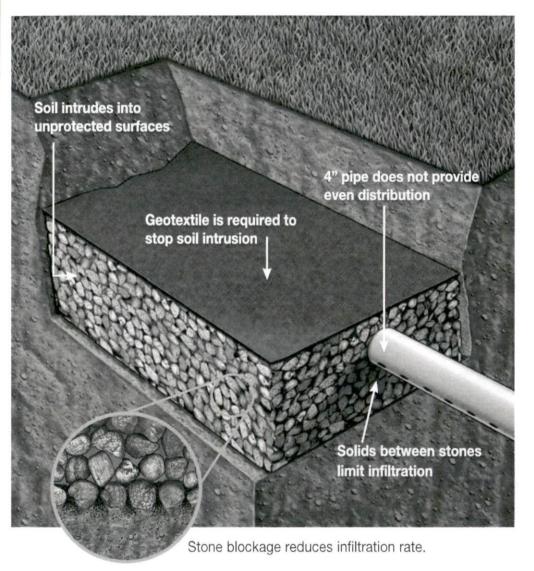


EZflow geosynthetic leachfield.

Document Ref: LWAPM-WUQV6-94NWZ-WM3DF



Effluent flows into the leachfield where it is naturally purified as it percolates down through the soil.



OLD-FASHIONED SYSTEMS: **STONE AND PIPE SYSTEMS**

Old-fashioned systems use gravel or crushed stone in the leaching trenches to create void space to store the effluent and release it slowly. However, such systems are prone to eventual failure as the voids (empty spaces) around the gravel become plugged. This phenomenon occurs over time as solids build-up between the stones, limiting infiltration of water into the soil. As the gravel settles, it also tends to compact and accumulate fines (small soil particles), further reducing the infiltration rate.

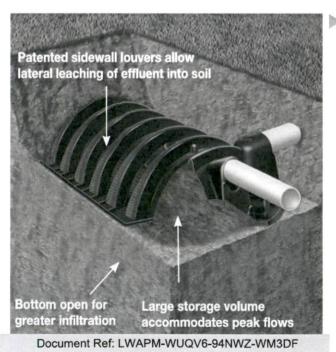
Stone and pipe systems can fail because solid matter clogs the space between the stones.



TODAY'S MODERN SOLUTION: INFILTRATOR CHAMBER SYSTEMS

Infiltrator Chamber Systems

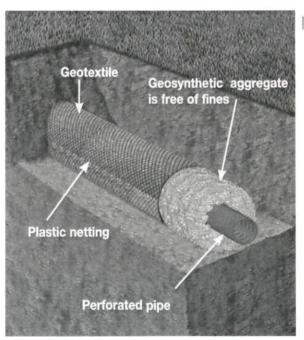
Infiltrator chambers are hollow structures that attach end-to-end. They are installed in trenches or beds without gravel (except where local codes require the use of gravel). The entire bottom of the trench is open for unobstructed infiltration of water. The large storage volume within the hollow chambers accommodates peak flows of effluent from the home. Infiltrator chambers also feature patented sidewall louvers that allow lateral leaching of effluent into the soil.



Infiltrator chamber systems' design eliminates the need for stone. The entire trench bottom is open for unobstructed infiltration.

EZflow Systems

EZflow is an environmentally friendly replacement to traditional stone in septic drainfields using an engineered geosynthetic aggregate modular design. The EZflow system is designed to improve infiltrative performance by eliminating the fines and reducing compaction and embedment associated with crushed stone.



EZflow geosynthetic systems replace stone in a traditional system reducing compaction and fines.



ADVANTAGES OF INFILTRATOR PRODUCTSOVER STONE AND PIPE

Infiltrator products are today's superior alternative to old-fashioned stone and pipe because they:

- Provide long-term savings due to longer life and greater operating efficiency
- Offer worry-free, long-term service with only simple, routine maintenance
- Protect landscape from damage caused by heavy equipment
- Provide greater treatment area to handle more wastewater with higher efficiency
- Offer a "greener" approach utilizing recycled plastic resins to manufacture the products
- Are backed by a minimum 1-year warranty and a reputable, service oriented company
- Can be installed in tight, sloped and curved areas creating less site disruption
- Infiltrator systems are designed to safeguard our environment for future generations.

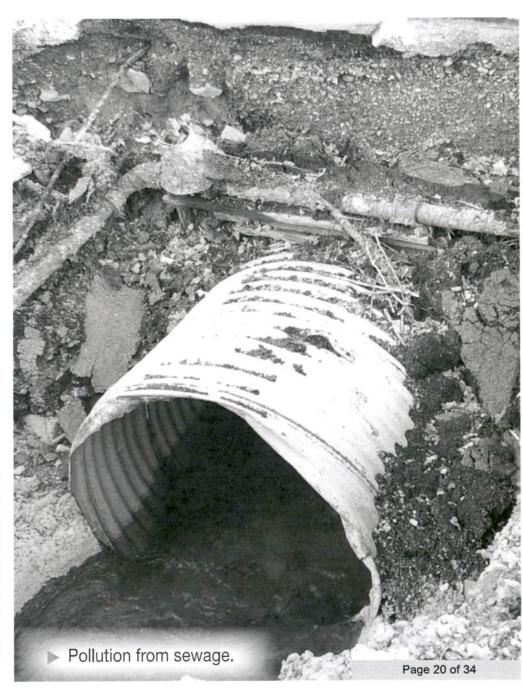
ADVANTAGES OF SEPTIC SYSTEMSOVER SEWER SYSTEMS

The alternative to septic treatment technology are sewer systems, which pipe waste to a centralized treatment plant, typically near a river or other body of water for disposal after treatment. In addition to being a cost effective alternative to expensive sewer lines, septic systems are environmentally superior to sewers because they:

- Provide simple, effective onsite wastewater treatment
- Allow the groundwater to be recharged onsite, which makes more clean water available for use
- Avoid contamination of local groundwater caused by ageing sewer lines, which leak untreated effluent into the soil
- Avoid environmental disasters of raw sewage discharges from treatment plants during floods or processing accidents



Document Ref: LWAPM-WUQV6-94NWZ-WM3DF



CARE AND MAINTENANCE OF YOUR SEPTIC SYSTEM

A septic system may be out of sight, but it definitely should not be out of mind. With proper standard maintenance and by being more aware of your daily living habits, you will greatly improve the life and health of your system. Here are some guidelines to help you protect your septic system investment.



Infiltrator Septic Tank

Why the Tank Needs Pumping Periodically

About 95 percent of the sludge and scum that is in your septic tank is broken down by bacteria. The other 5 percent remains in the tank and builds up in the sludge layer. Consequently, your septic tank must be pumped out regularly. Otherwise, solids would eventually fill the tank and wash-out into the leachfield. This is detrimental to the overall health and longevity of your system.

CAUTION: If solids do overflow from the septic tank into the leachfield, they will prematurely clog the soil pores (openings). Pumping out the septic tank at that point will not restore the system. The most likely solution would be installing a new leachfield in a different area, which can be very expensive and disruptive to your property.

Have your tank checked by Marlin Wastewater every two to three years. If you have high water usage or a garbage disposal, the inspections should be more frequent. Use the septic system maintenance record on page 11 to enter and date each inspection and pumping.

LOCATING THE SEPTIC TANK

It's very important to know where the tank is in order to have it inspected and pumped. Here are three different ways Marlin locates your septic tank.

- 1. We request a copy of the septic system permit for your property from the local health department. If available, it will have a diagram of your system on it.
- 2. We locate where the sewer line leaves your house, this gives us an idea which side of the house the tank is located.
- **3.** Marlin uses probes, cameras and electronic location devices to find each component of the system for routine maintenance.

SEPTIC SYSTEM MAINTENANCE RECORD

Use the chart below to record standard system maintenance such as the dates the tank was pumped.

DATE	PROCEDURE

DIAGRAMMING THE LOCATION

Once you know where the septic system is, use the septic system layout provided below to sketch the location of your house, driveway, septic tank, and leachfield. We will also provide a copy of the operation permit /as built from the local Health Department if it is available.

Contractor:

Marlin Wastewater Services

Contact Info:

(910)295-1899 / (910)673-0599

www.marlinw.com / info@marlinw.com

P.O. Box 865

West End, NC 27376

Permit Number:

NCS-00371 / NCOWCICB 1923I



Your septic system layout

THE DAILY INS AND OUTS OF A HEALTHY SEPTIC SYSTEM

THE INSIDE STORY

You can protect the performance and life of your system by controlling what goes into and through your septic system. Here's how:

- Conserve water. Large volumes of water over a short period of time will flush untreated solids out of the septic tank into the leachfield.
 - √ Practice conservation every day. For example, turn off the faucet while brushing your teeth.
 - √ Space out heavy water-using activities such as washing clothes and taking showers.
 - Repair leaky faucets and valves. Consider replacing old toilets that use 3.5 to 5 gallons per flush with new 1.6 gallon fixtures.
 - **Keep your drains clean.** Remember that a septic system uses natural biological processes, so only biodegradable waste should go in it.
 - No cigarette butts, tissues, sanitary napkins, disposable diapers, catbox litter, coffee grounds or cotton swabs.

- ✓ No paints, oils, chemical drain cleaners, thinners, solvents, poisons, or pesticides. These toxic chemicals not only kill helpful bacteria, they may also contaminate the groundwater.
- ✓ No grease or cooking oils. Grease may harden in the septic tank's scum layer and build up until it blocks the inlet or outlet. If you melt grease and pour it down the drain, it may run through the septic tank and then harden, clogging the soil pores in your leachfield.
- ✓ Go easy with your garbage disposal. Using a garbage disposal typically doubles the rate of solids buildup in the septic tank. To avoid frequent pumpouts, compost your garbage or put it in the trash.
- Be cautious with household chemicals. Disinfectants, ammonia, bathroom cleaners, bleach, etc. can kill the bacteria your system needs in order to operate properly. Allow the system to dilute and neutralize them a little at a time.
 - ✓ Infiltrator doesn't recommend the use of additives that claim to boost the bacteria count or extend septic system life. Bacteria are already present by the billions, and additives won't affect the need for periodic pumping.

THE DAILY INS AND OUTS OF A HEALTHY SEPTIC SYSTEM

THE OUTSIDE STORY

Here's how you can control what happens outside your septic system.

- **Keep surface water away.** Divert downspouts, roof drainage, driveway runoff, and sump pump discharge away from the leachfield. Landscape your yard to channel rainwater away.
- Maintain appropriate cover. Remove trees such as willows that like "wet feet." Their roots may penetrate and damage the leachfield. Grow grass or ground cover over the septic system to prevent soil erosion. Restrict planting anything with a deep or aggressive root structure.
- Avoid physical damage. Don't drive over the system or compact the soil with heavy equipment. Don't dig in the leachfield or build anything over it. Don't cover the tank or leachfield with concrete or blacktop.

NOW YOU'RE AN INFORMED SEPTIC SYSTEM OPERATOR

Most problems with septic systems are due to lack of proper care. With a little attention, your septic system can be a valuable asset to your property. It all comes down to knowing where your system is, protecting it from internal and external problems, giving it regular maintenance, and calling a Marlin Wastewater Services when you need help. If you follow these simple guidelines, it will benefit the environment, as well as yourself. Now, you are an informed septic system operator.

For more information on septic products, Call Marlin Wastewater Services:

910.295.1899

Or visit our website:

www.marlinw.com

OUR FAMILY OF PRODUCTS



Quick4 & Quick4 Plus Chamber Systems

Infiltrator chamber systems are a direct replacement for old-fashioned stone and pipe leachfields. Infiltrator chambers give designers, engineers, installers and homeowners great flexibility in placement of the septic leachfield.





EZflow is an environmentally friendly replacement to traditional stone and pipe drainfields using an engineered geosynthetic aggregate modular design. The EZflow system is designed to improve infiltration performance by eliminating the fines associated with crushed stone, and reducing compaction and embedment associated with stone.

Septic Tanks



Infiltrator septic tanks provide a revolutionary improvement in plastic septic tank design, offering exceptional strength comparable to concrete tanks. There's a full range of tank sizes to best suit your needs.

EZset Risers and Lids



EZset risers and lids are made from glass reinforced polypropylene, providing superior strength and durability. Ideal for use with any concrete or plastic tank. The slip resistant lids are fastened using stainless steel screws and can be further secured by installing locking rings.

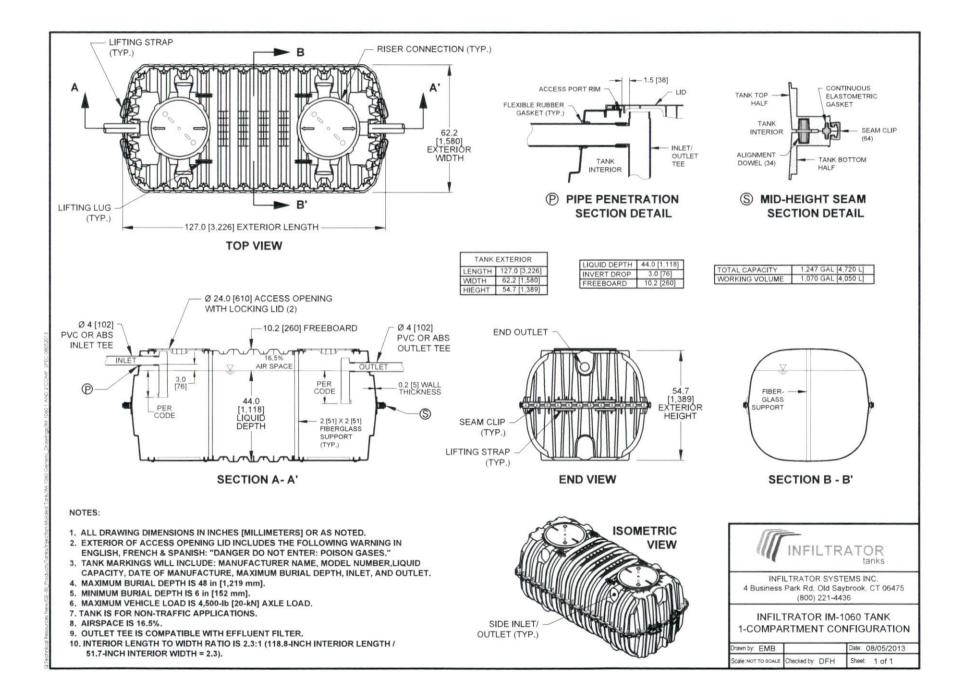
Aquaworx IPC Panels

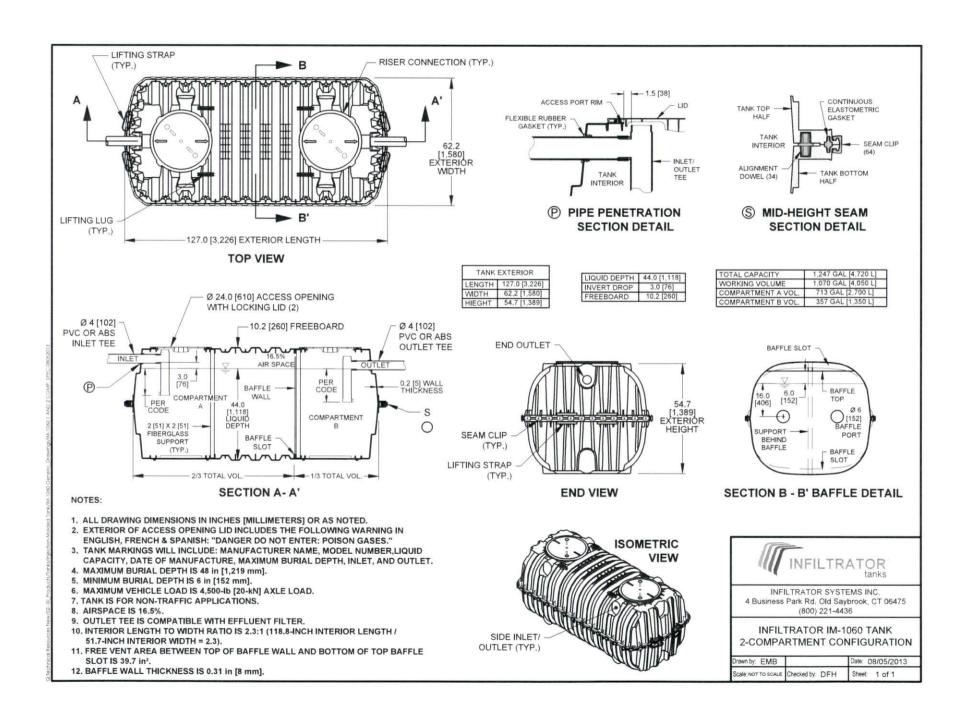


Aquaworx IPC Panels provide an innovative approach to pump control where a pump is required. These panels use a floatless pressure transducer technology, monitors liquid levels, controls pumping time intervals and logs events in real-time. Panels are available in simplex or duplex.



140 Knox Lnl P.O. Box 865 | West End NC, 27376 1-910-295-4436 | www.infiltratorwater.com Page 27 of 34 Document Ref: LWAPM-WUQV6-94NWZ-WM3DF







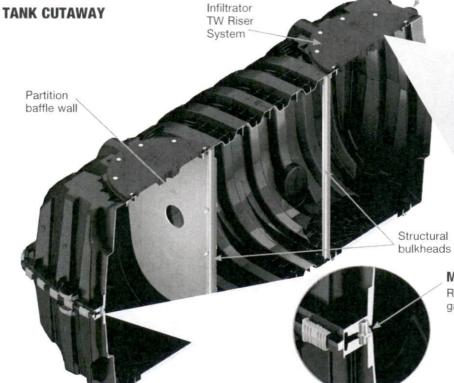




The Infiltrator IM-1060 is a lightweight strong and durable septic tank. This watertight tank design is offered with Infiltrator's line of custom-fit risers and heavy-duty lids. Infiltrator injection molded tanks provide a revolutionary improvement in plastic septic tank design, offering long-term exceptional strength and watertightness.

Features & Benefits

- Strong injection molded polypropylene construction
- Lightweight plastic construction and inboard lifting lugs allow for easy delivery and handling
- Integral heavy-duty green lids that interconnect with TW™ risers and pipe riser solutions
- Structurally reinforced access ports eliminate distortion during installation and pump-outs
- Reinforced structural ribbing and fiberglass bulkheads offer additional strength
- Can be installed with 6" to 48" of cover
- Can be pumped dry during pump-outs
- Suitable for use as a septic tank, pump tank, or rainwater (non-potable) tank
- No special installation, backfill or water filling procedures are required



HEAVY DUTY LID CUTAWAY

Reinforced 24" structural access port

MID-SEAM CUTAWAY

Reinforced water tight mid-seam gasketed connection

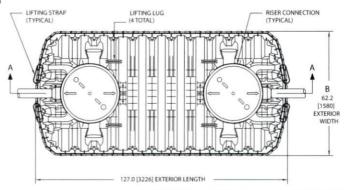


Protecting the Environment with Innovative Wastewater Treatment Solutions

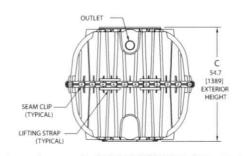
IM-1060 General Specifications and Illustrations

The IM-1060 is an injection molded two piece mid-seam plastic tank. The IM-1060 injection molded plastic design allows for a mid-seam joint that has precise dimensions for accepting an engineered EPDM gasket. Infiltrator's gasket design utilizes technology from the water industry to deliver proven means of maintaining a watertight seal. The two-piece design is permanently fastened using a series of non-corrosive plastic alignment dowels and locking seam clips. The IM-1060 is assembled and sold through a network of certified Infiltrator distributors.

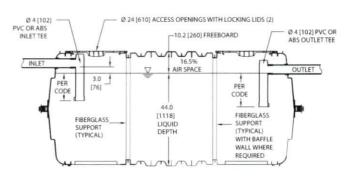
IM-1060				
Working Capacity	1094 gal (4141 L)			
Total Capacity	1287 gal (4872 L) 16.5% 127" (3226 mm) 62.2" (1580 mm) 2.3 to 1 54.7" (1389 mm) 44" (1118 mm)			
Airspace				
Length				
Width				
Length-to-Width Ratio				
Height				
Liquid Level				
Invert Drop	3" (76 mm)			
Fiberglass Supports	2			
Compartments	1 or 2			
Maximum Burial Depth	48" (1219 mm)			
Minimum Burial Depth	6" (152 mm) 6" (152 mm)			
Maximum Pipe Diameter				
Weight	320 lbs (145 kg)			



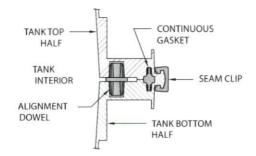
TOP VIEW



END VIEW



SIDE VIEW



MID-HEIGHT SEAM SECTION



4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • Fax 860-577-7001 1-800-221-4436

www.infiltratorswater.com

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564. Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of PolyLok. Inc. TUF-TITE is a registered trademark of TUF-TITE. INC. Ultra-Rib is a trademark of PolyLok. Inc. TUF-TITE is a registered trademark of TUF-TITE.

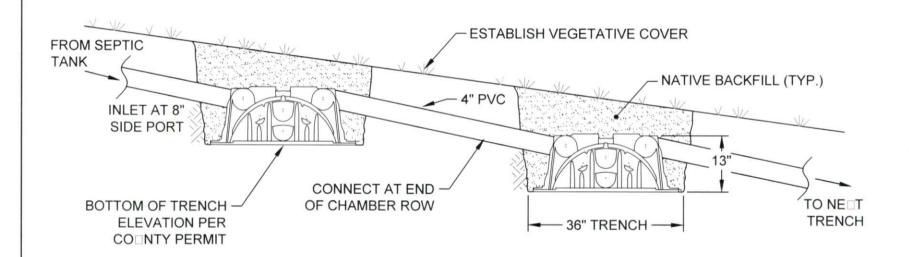
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Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

INFILTRATOR WATER TECHNOLOGIES □ □ICK4 PL□S STANDARD CHAMBER PROD CT SPECIFICATIONS (NOT TO SCALE) **TOP VIEW INSPECTION PORT** 2" dia □. QUICK4 PLUS ALL-IN-ONE 12 END CAP INSPECTION PORT 4" dia ... PRESS RIZED PIPE DRILL 53" -POINTS LOCATIONS (2 PLACES) SIDE VIEW **END VIEW** - 48" -(EFFECTIVE LENGTH) 33" 8" INVERT INFILTRATOR INFILTRATOR WATER TECHNOLOGIES 4 Business Park Rd. Old Saybrook, CT 06475 (800) 221-4436 □ □ICK4 PL□S STANDARD CHAMBER PRODUCT SPECIFICATIONS Drawn by: EMB Date: 05/20/2015 Scale: NOT TO SCALE Checked by: DFH

INFILTRATOR SYSTEMS INC. **QUICK4 PLUS STANDARD CHAMBER** SERIAL DISTRIBUTION TYPICAL DETAIL **SECTION VIEW**

(NOT TO SCALE)



IN MBER OF ROWS DETERMINED BY DESIGN AND CENTER TO CENTER SPACING PER CODE.



INFILTRATOR

INFILTRATOR SYSTEMS INC. 4 Business Park Rd. Old Saybrook, CT 06475 (800) 221-4436

□ □ICK4 PL□S STANDARD CHAMBER SERIAL DISTRIBUTION TYPICAL DETAIL SECTION VIEW

Drawn by: EMB			Date: 07/16/2013	
Scale: NOT TO SCALE	Checked by:	DFH	Sheet:	1 of 1



INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

- (a) This limited warranty is extended to the end user of an Infiltrator Tank. A Tank manufactured by Infiltrator, when installed and operated in accordance with Infiltrator's installation instructions and local regulation by a licensed installer, is warranted to you: (i) against defective materials and workmanship for five (5) years after installation. Infiltrator will, at its option, (i) repair the defective product or (ii) replace the defective materials. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Tank.
- (b) In order to exercise its warranty rights, you must notify Infiltrator in writing at its corporate headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect.
- (c) YOUR EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSSES OR DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER SHALL BE SPECIFIED IN SUBPARAGRAPH (a) ABOVE. INFILTRATOR SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, HOWEVER OCCASIONED, WHETHER BY NEGLIGENCE OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
- (d) THIS LIMITED WARRANTY IS THE EXCLUSIVE WARRANTY GIVEN BY INFILTRATOR AND SUPERSEDES ANY PRIOR, CONTRARY, ADDITIONAL, OR SUBSEQUENT REPRESENTATIONS, WHETHER ORAL OR WRITTEN. INFILTRATOR DISCLAIMS AND EXCLUDES TO THE GREATEST EXTENT ALLOWED BY LAW ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FINESSE FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. NO PERSON (INCLUDING ANY EMPLOYEE, AGENT, DEALER, OR REPRESENTATIVE) IS AUTHORIZED TO MAKE ANY REPRESENTATION OR WARRANTY CONCERNING THIS PRODUCT, EXCEPT TO REFER YOU TO THIS LIMITED WARRANTY. EXCEPT AS EXPRESSLY SET FORTH HEREIN, THIS WARRANTY IS NOT A WARRANTY OF FUTURE PERFORMANCE, BUT ONLY A WARRANTY TO REPAIR OR REPLACE.
- (e) YOU MAY ASSIGN THIS LIMITED WARRANTY TO A SUBSEQUENT PURCHASER OF YOUR HOME.
- (F) NO REPRESENTATIVE OF INFILTRATOR HAS THE AUTHORITY TO CHANGE THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER, OR TO EXTEND THIS LIMITED WARRANTY.

CONDITIONS AND EXCLUSIONS

There are certain conditions or applications over which Infiltrator has no control. Defects or problems as a result of such conditions or applications are not the responsibility of Infiltrator and are NOT covered under this warranty. They include failure to install the Tank in accordance with instructions or applicable regulatory requirements or guidance, altering the Tank contrary to the installation instructions and disposing of chemicals or other materials contrary to normal tank usage.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of a Tank should contact Infiltrator's corporate headquarters in Old Saybrook, Connecticut, prior to such purchase to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of a Tank.

4 Business Park Road PO Box 768 • Old Saybrook, CT 06475 Phone 1-800-221-4436 • Fax 860-577-7001 www.infiltratorsystems.com

Signature Certificate

Document Ref.: LWAPM-WUQV6-94NWZ-WM3DF

Document signed by:



Thomas Boyce

Verified E-mail: nclss1241@gmail.com

174.194.0.158 Date 19 Apr 2021 15:15

Thomas Boyce



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