ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF INTENT

INDIVIDUAL TREATMENT FACILITIES NPDES GENERAL PERMIT ARG550000

Application Type: New 🛛	Renewal (Permit # ARG55)
I. PERMITTEE/OPERATOR INFORMATION	
Permittee (Legal Name): Rickey & Kelli Wh	itaker Operator Type:
Permittee Mailing Address: 694 Grant 65	State Partnership
Permittee City: Sheridan	
Permittee State: Arkansas	The state of the s
Permittee Telephone Number: 870-941-1720	*State of Incorporation:
Permittee Fax Number: NA	The legal name of the Permittee must be
Permittee E-mail Address: Kwhit0@gmail.com	identical to the flame listed with the
II. INVOICE MAILING INFORMATION (Hom	e owners are exempt.)
Invoice Contact Person: N/A	City:
Invoice Mailing Company:	
Invoice Mailing Address:	
Facility Name: Whitaker Residence Facility Address: 694 Grant 65 Facility County: Grant Facility Latitude: 34 Deg 17 Min 9.05 Sec Accuracy: Method:	Telephone Number: 870-941-1720 Facility City, State & Zip: Sheridan, AR 72150
IV. DISCHARGE INFORMATION	FI 450 1 (G-II D)
Outfall Number: 001 Stream Segment: 2C	Flow: 450 gpd (Gallons per Day) Hydrologic Basin Code: 802 04 01
Outfall Latitude: 34 Deg 17 Min 12.51 Sec	
Accuracy: Method:	Datum : Scale: Description:
Type of Treatment: Bio Microbics Microfast 0.5 w	
Receiving Stream: Ouachita	
V. FACILITY PERMIT INFORMATION	
NPDES Individual Permit I	Number (If Applicable): AR00
	Number (If Applicable): ARG
State Const NPDES General Construction Stormwater Permit 1	ruction Permit Number:

WATER DIVISION 5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118 PHONE 501-682-0623 / FAX 501-682-0880

	OTHER INFORMATION:	
	Operator Name:	
	Operator License Number:	009055 License Class: III
	Consultant Contact Name:	David Meints
	Committee in the second of the committee	david@meincowastewater.com
	Consultant Address:	
	Consultant Phone Number:	_501-804-0837
Has this	treatment system been appi	roved by AHD? Yes No 🗌
Disclosu	e Statements:	
be obtain	ed from ADEQ web site at: h	disclosure statement even if you have one on file with the Department. The form mattp://www.adeq.state.ar.us/disclosure_stmt.pdf.
		he provisions of 40 CFR 122.22(b). If no cognizant official has been designated,
KW (In	supervision in accordate evaluate the information and complete. I am available in the information and complete. I am available in the information and complete.	partment will accept reports signed only by the Applicant." y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather are non submitted. Based on my inquiry of the person or persons directly responsible from the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations."
	stial) "I certify under penalty supervision in accorda evaluate the informati gathering the informati and complete. I am av possibility of fine and i	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible fion, the information submitted is, to the best of my knowledge and belief, true, accurat ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations."
Respon	supervision in accordate evaluate the information gathering the information and complete. I am an apossibility of fine and insible Official Printed Name:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible from the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." **ELLIWATER** Title: Owner
Respon	supervision in accordate evaluate the information gathering the information and complete. I am as possibility of fine and insible Official Printed Name:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible from the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." **ELLIWHITAKER** Title: Owner** **Downer** **D
Respor Re	supervision in accordate valuate the information gathering the information and complete. I am any possibility of fine and insible Official Printed Name: Responsible Official Email:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather are non submitted. Based on my inquiry of the person or persons directly responsible from the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." **ELLIWhitaker** Title: Owner** **ELLIWhitaker** Date: 05 22 2023* **ELLIWhitaker** Date: 05 22 2023*
Respor Re Cogr	supervision in accordate valuate the information and complete. I am an appossibility of fine and insible Official Printed Name: Responsible Official Email: Responsible Official Printed Name:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible finds, the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** **David Meints** **Title: Class III Operator**
Respor Re Cogr	supervision in accordate valuate the information gathering the information and complete. I am any possibility of fine and insible Official Printed Name: Responsible Official Signature: Responsible Official Printed Name: Cognizant Official Printed Name:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible finds, the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." Exell: Whitaker Title: Owner Exell: Whitaker Date: Objatato3 Exell: Whitaker Title: Owner Title: Class III Operator Telephone: 501-804-0837
Respor Re Cogr	supervision in accordate valuate the information gathering the information and complete. I am any possibility of fine and insible Official Printed Name: Responsible Official Signature: Responsible Official Printed Name: Cognizant Official Printed Name:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible finds, the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** **David Meints** **Title: Class III Operator**
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Respor Re Cogr	supervision in accordate evaluate the information gathering the information and complete. I am any possibility of fine and insible Official Printed Name: Responsible Official Signature: Responsible Official Email: Anizant Official Printed Name: Cognizant Official Signature: Cognizant Official Signature: Cognizant Official Email:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible fion, the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Owner** **ELLIWHITAKER** Title: Obj 22/2023** **ELLIWHITAKER** Title: Old 23/2023** **ELLIWH
Respor Re Cogr (X. PER Pleas	supervision in accordate evaluate the information gathering the information and complete. I am any possibility of fine and insible Official Printed Name: Responsible Official Signature: Responsible Official Email: Anizant Official Printed Name: Cognizant Official Signature: Cognizant Official Signature: Cognizant Official Email:	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible find, the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." EXELLEMENTALE Title: Owner Whit Degmail.com David Meints Title: Class III Operator Telephone: 501-804-0837 EAUTON Tompletion of permit requirements.
Respor Re Cogr (X. PER Pleas	supervision in accordate evaluate the information gathering the information and complete. I am any possibility of fine and insible Official Printed Name: Responsible Official Signature: Responsible Official Email: Additional Printed Name: Cognizant Official Signature:	of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible fion, the information submitted is, to the best of my knowledge and belief, true, accurate ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." KelliWhitaker
Respon Re Cogr (X. PER Pleas Submit	supervision in accordate valuate the information gathering the information and complete. I am any possibility of fine and insible Official Printed Name: sponsible Official Signature: Responsible Official Email: nizant Official Printed Name: Cognizant Official Signature: Cognizant Official Signature: Cognizant Official Email: Cognizant Official Email: EMIT REQUIREMENT VERICAL See check the following to vericate of Complete NOI?	y of law that this document and all attachments were prepared under my direction ance with a system designed to assure that qualified personnel properly gather at on submitted. Based on my inquiry of the person or persons directly responsible from the information submitted is, to the best of my knowledge and belief, true, accura ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." **Kell: Whitaker** Title: Owner** **Example Class III Operator** **David Meints** Title: Class III Operator** **Tolephone: 501-804-0837* **Edaid@meincowastewater.com** **ERIFICATION** ify completion of permit requirements. Yes No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions, then a permit can not be issued* **No **If No is answered for any of the questions are all and a permit can not

WATER DIVISION
5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118
PHONE 501-682-0623 / FAX 501-682-0880





Arkansas Department of Health

Environmental Health Protection

AUG 0 1 2022

Receipt Number 25302242

Individual Onsite	Wastewate	er System Permi	t Applica	ation			Fee Schedule for	Structur	es		√
Permit Type	г	New Installation	n		Structure	es 1500 s	sq ft or less			\$ 30.00	
, o 17pc					Structure	es more	than 1500 sq ft and up	o to 2000	sq ft	\$ 45.00	0/
		Alteration / Re	pair		Structure	es more t	than 2000 sq ft and up	to 3000	sq ft	\$ 90.00	
DR Environmental ID	#			\$	Structure	es more i	than 3000 sq ft and up	to 4000	sq ft	\$120.00	
7 6 0	2 1 3	2 0 9	0		Structure	es more f	than 4000 sq ft			\$150.00	
				A	Alteration	n and Re	pair			\$ 30.00	
Part 1 Applicatio		eafment Type (ch	eck one)				Disposal Metho				
STD = Standard Sepl ISF = Intermittent Sar PMF = Proprietary Mo OTH = Other (Descrit	nd Filter [edia Filter [Z ATU = Aerobic Trea ☐ RSF = Re-circulatin ☐ RGF = Re-circulatin ☐ HLD = Holding Tanl	g Sand Filt g Gravel Fi	er Sur		ace Disc oing Fill	harge] HLD =] SRL =	Low Pressur Holding Tan Serial Distrib Drip Irrigation	k oution	on
Owner's/Applicant	4 11 -	1:11					2. Phone Number				
3. Mailing Address	telli	Whitaker					Brody	870	-941-	1720	
694 Gra	nt 65	Sheriday	AR	72150		- 1	4. County	n. L			
5. Address of Propos	sed System (If a 911 address is	not availal	ble, attach de	tailed o	irection	is or map)	aur			
Same A	s Abo	ve					ns one seasons				
6. Subdivision Name	A			roval Date		8. Dat	te Recorded		9. Lot Num	ber	
10. Lot Dimensions	Acres			tal Area (Acre	96)	12 #	2019 Bedrooms # Peop	ie l	13. Daily F	low (GPD)	
Sec.	egal		_	1 LI-	7)		4		4		
14. Brief Legal Descri	ption of Prop	erty (Attach a sepa	rate shee	t of paper, if r	ecessa	ary)					
5-14 15. Water Supply (Sp	T-5-9		W	16.00	20.000						
Soul				10. Gr	-S C00	rdinates	18638°N	92	38915	° W	
17. Loading Rates	(gpd/ft²)	18. System Spec	cifications			U 1. 0	,	10.	00112		
Primary Area	NIA	a. Size of Septic		ATU	gal	f. 7	French Depth	1		inches	
Secondary Area	NIA	b. Size of Dose T		850	gal		French Spacing			feet	
Percolation Test	(min/in)	c. Absorption Are	а	1	ft ²		French Media (List	Below)			h Width
Primary Area Avg	N/A	d. Number of Fiel	d Lines	`			1				in
Secondary Area	N/A	e. Length of Field	Lines	\	ft						in
utilize the design	changed and proval for open i and installed are exception zed agent mulation at item 12, the ed individual	er approval of this eration does not co ed according to the ions or deviations r	s permit, onstitute a Arkansas noted in th mit more t oms (num system in	or if the info a guarantee to be Departments to comments. than one (1) you ther of person this permit as	hat the tof He A Pe ear old	n withir system alth, Ru mit for prior to	n this permit is in m will function pro- ules and Regulation Construction is va- the start of any co- cial) and square foot	accurate perly. Ins Pert per lilid for construction of the per lilid per lil	e or has been approved aining to Opine (1) year on.	een found al states t nsite Was r from the	to be that the tewater date of
Owner/Applicant Sign	1 1	e Attc					Date _		erin linkanai ka		
I certify that I have Arkansas Departi	ment of Heat	the above tests ar th Rules and Regul	nd that the ations Pe	above listed rtaining to On	informa site Wa	ation is astewat	in accordance with er Systems.	the late	est requiren	nents of th	е
Doole	Poli/	astely	ly				D.R.	Soi	Certified	⊠ Yes [□ No
UENGRA		tative Signature	1			-1	Title				
		ASTLEBERRY int Name				16	17/22 Date			92-5742 Number	
21. Approval of Health The information at Health Rules and	hiAuthority	ions in the applicati Peraining To Onsi	on has be te Wastev	en reviewed a	and fou	ERMIT	neet the requirement	nts of th	e Arkaneae	Denadme	ent of
Jane	of utto	WIR				83	6	8		022	
7/ Env	onmental Spe	ecialist Signature					Number		Date)	

IMPORTANT NOTICE TO PROPERTY OWNER

The Arkansas Department of Health's approval of a discharging sewage system <u>does not</u> relieve the property owner of any other local, state, or federal requirement regarding sewage discharging systems. Please be advised that <u>all</u> wastewater systems that discharge sewage to the surface are required to notify:

Arkansas Department of Environmental Quality

ATTN: Permits Branch

5301 North Shore Drive

North Little Rock, AR 72118

Phone Number: 501-682-0623

Web Site: www.adeq.state.ar.us

Individual Onsite Wastewater System Permit Application

		vaste	water Syste	m Permit Appli	cation 3 v		Receip	t Number
Continue Part		rv Are	a)	Indicate the den	ath to itams - f	V-h		
a. Bedrock	b. BSW					if observed in the soil	(designate in inche	98)
a. Deditock			c. MSWT	d. LSWT	e. Adj. MSW	T f. Adj. LSWT	g. H.C./Depth	h, Loading Rate (gpd/ft²
23. Soil Crite	ria (Secon	dary A	Area)	Indicate the doc	N/A	if observed in the soil	\	NIA
a. Bedrock	b. BSW		c. MSWT					
\	D"			d. LSWT	e. Adj. MSW		g. H.C./Depth	h. Loading Rate (gpd/ft
4. Seasona	Water Ta	able (S	WT) Classes	Detail	MA	NIA		NIA
	ry Area				t Redoximorphi	c Features and/or Cla	Content Restriction	200
Brief Ø	D''	in	2.5 YR 5/8			or outdoor distarding old	Content reserven	J115
Moderate g	2"	in	10 YR 6/2			200	100	
ong		in						
Seconda	ary Area			List	Redoximorphic	Features and/or Clay	Content Restriction	ns
Brief &	D"	in	2.5 YR 5/8		1 0.1. 0.1. 0.1. 0.1. 0.1. 0.1. 0.1. 0.			
Moderate (D''	in	10 YR 6/2					
ong		in						
eptic tank m		er	ection			Pump information		
eptic tank ma						2 SCHOOL STREET, STREE		.0
ose tank ma						Trench media and wid		
ose tank mat						Depth of interceptor d	rain	
ame of Insta						Depth of settled fill		Tallia v vermine
ame of instal	ПӨГ							icense Number
staliation ins heck one or ins	pected by staller signs	Syste	n Installation Ve	ental Health Speci rification below)	ialist o C	Pesignated Represent	ative	
ystem Installa	ation Verifi	ication	ature			EHS / Licen		Date
nave Installed	this syste	em as	designed and	in compliance with	h all Rules and	Regulations Pertaining	g to Onsite Wastew	vater Systems.
	All Colors of the Colors of th		Signature			License Nur	nber	Date
e information		d in P OR OF	art 1 and 2 of t PERATION of t	his form has beer his system is here	reviewed and aby Issued.	found to meet the req	ulrements of the Ar	kansas Department of
mments		2 JAME	•	Signature		EHS Numbe		Date
te Revalidatio	on conduct	ted by		Environmental F	ealth Specials			
ck one)				- it in or in louist it	can opecialis	1 0	esignated Repres	entative

EHS / License Number

Date

Signature

* Optional System Utilization Verification Form



Arkansas Department of Health Environmental Health Protection

Receipt Number	

Individual Onsite Wastew	eter System Permit Application	Fee Schedule for Structures	1
Permit Type	✓ New Installation	Structures 1500 sq ft or less \$ 30.00 Structures more than 1500 sq ft and up to 2000 sq ft	
	Alteration / Repair	\$ 45,00 Structures more than 2000 sq ft and up to 3000 sq ft	<u> </u>
DR Environmental ID#		\$ 90.00 Structures more than 3000 sq ft and up to 4000 sq ft	
		\$120.00 Structures more than 4000 sq ft	
		\$150.00 Alteration and Repair \$ 30.00	
Homeowner			
☐ Builder/Develope	ar.		
builder/Develope	П		
TO THE PROPERTY	YOWNER		
Onsite Wastewater S	System Utilization Verificati	on	
Property location:	(Address of Proposed	system, City, State, Zip)	2152
I hereby attest there	are bedrooms (number of persons for commercial)	and
	Decision of the Property of th	utilize the designed onsite wastew	
		have reviewed the permit application	
understand the layou	ut, installation, maintenance	e, operation and expense(s) that may	be
associated with this	system.		
A - D I /D 'I - I -			mater w aterow
· ·	AND	above information is correct and prio	
the sale of the prope	erty, I will convey, to the b	uyer, all information associated with	this
system.			
Owner/Applicant Sign	nature Killi Whita	ker	
	193 (8		
Date	2022		
This document must be s	uhmitted with the normit applic	ation if the Owner/Applicant Signature Secti	an

EHP-19, OPT-A (R 8/13)

(number 19 on the EHP-19) is not signed.



Arkansas Department of Health

4815 West Markham, Slot 46 Little Rock, Arkansas 72205-3867

MEMORANDUM OF AGREEMENT

SUBJECT: ONSITE WASTEWATER SYSTEM APPLICATION

This is an agreement that the onsite wastewater system installed on this property has been permitted under authority of Act 402 of 1977 and by the Arkansas Department of Health with the understanding that the following provisions are met:

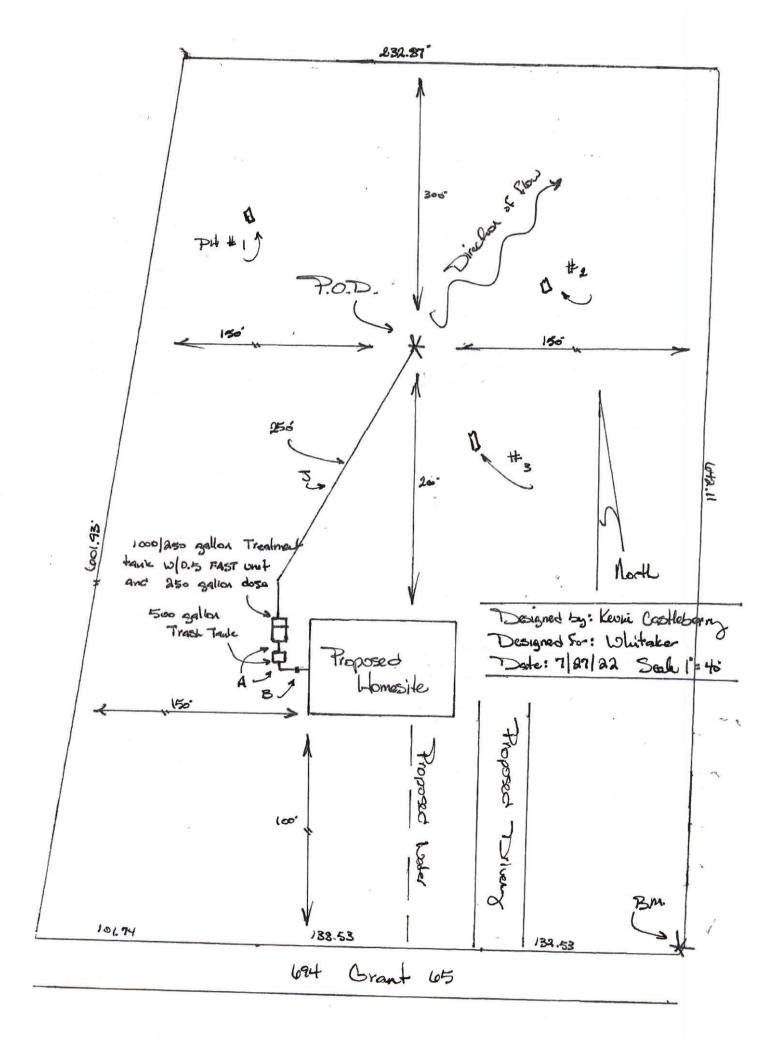
- Onsite Wastewater Systems requiring a Monitoring Contract with a Certified Monitoring Personnel are Holding Tanks, Experimental Systems (i.e. Reduced Absorption Areas, *ABGs), and Drip Dispersal Systems. *Aerobic Biological Generators – Commercial applications only, residential applications must follow manufacturers' service contract requirements.
- The property owner assumes all responsibility for the proper operation of the onsite wastewater system.
- The property owner must maintain a monitoring contract with a licensed Certified Monitoring Personnel for the life of the system and retain Onsite Wastewater System Assessments (EHP-71), on file, for at least five (5) years.
- 4. The Arkansas Department of Health has no responsibility in the operation and maintenance of such systems.
- That the Arkansas Department of Health may monitor the system as to its operation capabilities.
- 6. That the Arkansas Department of Health is granted permission to make such inspections as deemed necessary.
- 7. Subsurface systems with flows ≥3000 gpd and all surface discharging systems require the owner to file an additional permit application with the Arkansas Department of Environmental Quality (ADEQ).
- That, on the sale of the property, the owner of the property must disclose
 to the perspective buyer notice of this agreement and any permit
 requirements. The buyer is to sign memoranda, contracts or permit name
 change forms and submit these documents to the appropriate regulatory
 agency.

SIGNED Kelli Whitaker	SIGNED:	amok	Um	PS
(Property Owner)	91	(Health	Departn	nent)
DATE: 7/22/22	DATE:	8-9-	2022	

EHP-35 (R 1/13)

SERVICE AND MAINTENANCE CONTRACT

1.	Parties. This contract ("Agreement" or "Contract") is Customer Name collectively as the "Parties."	bet	ween Meinco Septic Systems, Inc., ("Meinco") and , ("Client"), referred to individually as a "Party" and
	Service Location. This is a Contract for septic symmetric for Client located at 911 Address of Site hereinafter referred to as the "Service Site."		
3.	Service Fees. Client agrees to pay Meinco one service and maintenance specifically work perform more specifically below (hereinafter referred to as invoiced amount is good consideration for this Contagained for terms of this agreement.	ed ' 'Se'	every Three Morths (Quarterly) and described ervice Work"). Meinco and Client agree that the
4.	Materials Charges. During regular maintenance Meinco will replace materials necessary to keep the septic system operating efficiently (chlorine tablets, UV light bulbs, floats, filters, etc.). Meinco and Client agree that Meinco shall submit to client the costs of maintenance parts and materials and Client will promptly pay the same.	9.	Modification to System. If the septic system is modified, abused, mis-used, or altered, then Melnoo's responsibility to service or maintain the septic system is terminated. Meinco may remedy such conditions by replacing parts or correcting defects. If Meinco makes such changes to the septic system, then it may charge to client the costs of repairs, modifications, parts, and labor. Meinco may, at its
5.	Laboratory Fees. A) This paragraph is inapplicable. B) Client agrees that Meinco will use a third party laboratory, Environmental Services, Inc., for any sampling that is required under this Contract. In such event,		discretion, seek payment in advance of making any repairs or modifications to the septic system. In such event, Meinco shall not be responsible for any damage or adverse effects for its delay in making repairs or modifications to the septic system.
	Meinco shall submit to Client a laboratory fee of \$150,000 and Client will promptly pay the same.	10.	Access to System. Client agrees to provide Meinco access to the septic system as well as its parts and components.
6.	Services Provided. Meinco agrees to provide the following Service Work to the Client and the Service Site:	11.	Termination by Client. Client may terminate this contract by providing thirty (30) days written notice to Meinco.
	A) Maintenance requirements, including review of system components and their working condition, monitoring of solid levels to determine system efficiency, and periodic cleaning of system filters or media.	12.	Termination by Meinco. Notwithstanding, and in addition to, any other provision or term in this Contract, <u>MEINCO MAY TERMINATE</u> THIS CONTRACT AT ANY TIME AND WITHOUT PREVIOUS NOTICE TO CLIENT.
	B) I. This paragraph is inapplicable. II. Necessary sampling and submission of paperwork every month(s) or as required to comply with the Arkansas Department of Health Onsite Maintenance Program.	13.	Solid Removal. Solid removal is not a covered service and shall incur an additional fee. If Meinco removes solids from the septic system, then it may charge to client the costs of solid removal. In any event, Meinco shall not be responsible for any damage or adverse effects for any delay in removing solids.
	C) Necessary paperwork every 6 month(s) as required to comply with the Arkansas Department of Health and/or the Arkansas Department of Environmental Quality.	14.	Indemnity. To the fullest extent permitted by law, Client shall indemnify, hold harmless, and defend Meinco and any agent or employees of Meinco from and against all injuries, claims, damages,
	D) I. This paragraph is inapplicable. II. Sampling of discharge every 6 month(s) in coordination with a 3rd party laboratory for required laboratory tests.		employees of vielnos from and against all injuries, claims, darrages, losses, and expenses, including, but not limited to, attorneys' fees, arising directly or indirectly out of the obligations herein undertaken or resulting out of operations related to the Service Work or Service Site conducted by Meinco, Meinco's agents, anyone directly or indirectly employed by them or anyone for whose acts they may be
7.	Contract Duration. This contract shall be for a period of $\underline{24}$ month(s) from the date this Contract is executed by the parties on page 2		liable, regardless of whether or not such injury, claim damage, losses, or expenses is caused in part by a party indemnified. Such obligation shall not negate, abridge, or otherwise reduce the rights or obligations of indemnity which would otherwise exist to a party or
8.	Flow Requirements. This contract shall be null and void if septic system flow exceeds 500 gallons per day		person described in this paragraph.



- Assignment. Client agrees that even though this is a contract for services, Melnco may assign this Contract to any third party without written notice to Client.
- Bilateral Contract. Meinco and client specifically agree that Client is seeking Meinco's promise to perform and not its performance.
- 17. Claims Against Meinco. Client shall give Meinco written notice of all claims within five (5) days of Client's knowledge of facts giving rise to the event for which claim is made. Otherwise, such claims shall be deemed waived by Client. All unresolved claims, disputes, and other matters in question between Meinco and Client shall be resolved in the manner provided for in this Agreement.
- 18. Rights Upon Breach. If Client breaches this Agreement with Meinco, Meinco may stop all work, including all Service Work. Additionally, Client will be liable to Meinco for consequential, incidental, and reliance damages as well as attorneys' fees and court costs. Such liability upon Client shall extend to petitions for end orders of contempt as well as any attempts by Meinco to collect upon any debt or damages owed to it by Client, including those entered by court of law or other dispute resolution proceeding.
- Direct Discussion. If a dispute arises out of or relates to this Agreement, the Parties shall endeavor to settle the dispute through direct discussion before advancing to any dispute resolution proceeding.
- 20. Joint Drafting. The Parties expressly agree that this Agreement was jointly drafted and that this Agreement shall be construed neither against nor in favor of either Party. Instead, this Agreement shall be construed in a neutral manner.
- 21. Choice of Law. The Parties expressly agree that any dispute or claim filed or heard in any jurisdiction concerning or relating to this Agreement or worked performed as a result of this Agreement shall be governed by the laws of the State of Arkansas.
- 22. Forum Selection and Choice of Venue. The Parties expressly agree that any dispute or claim arising from, filed, or heard concerning or relating to this Agreement or work performed as a result of this Agreement shall be heard in Saline County, Arkansas, and no other forum. If this clause is penetrated and the hearing

- concerning the dispute removed to the United States federal court system, then the Parties expressly agree that the dispute shall be heard in the United States District Court for the Eastern District of Arkansas, Western Division, at the Richard Sheppard Arnold United States Courthouse in Little Rock, Arkansas.
- 23. Walver of Agreement Terms. Meinco, at its sole discretion and leisure, may walve any term in this Agreement. Such walver shall not, under any conditions or circumstances, constitute a modification of this Agreement. Additionally, such wavier shall not, under any conditions or circumstances, constitute a course of performance, course of dealings, or trade usage between Meinco and Client. Any waiver by Meinco shall be limited to a single incident or event. No waiver of any term of this Agreement is veild unless it is in writing, signed by Meinco, and attached to this Agreement as an addendum. It is the responsibility and duty of Client to draft any written waiver and to present it to Meinco for Meinco's approval and signature.
- 24. Force Majeure. Neither Party shall be in breach of its obligations under this Agreement (other than payment obligations) or incur any liability to the other Party for any losses or damages of any nature whatsoever incurred or suffered if and to the extent that the other party it is prevented from carrying out its obligations by, or such losses or damages are caused by, a force majeure event. For purposes of this paragraph, the failure of the slate of Arkansas or the United States of America to act according to current practices, procedure, or law at the time of the making of this Contract shall be considered a force majeure event. Such event by the government shall be in addition to any current or commonly accepted definition of force majeure event.
- 25. Merger and Integration. Meinco and Client agree that this Agreement represents a full, final, and complete memorial of their Agreement for the Service Work and that this Agreement does not rely upon any term or promise not otherwise specified within the four corners of this Agreement.
- 26. No Oral Modification. Meinco and Client agree that this Agreement shall not be subject to oral modification. The Parties agree that any modification made or agreed to by the Parties shall be in writing, signed by both Parties, and attached to this Agreement as an Addendum.

By signing this Agreement below, I indicate that I have read this Agreement and its terms, consisting of two (2) pages, excluding any Addendum or Addenda, and that these express terms are both acceptable and agreeable to me. I further declare that these terms do not represent an undue hardship, are not illusory, and are not unconscionable as I have expressly bargained for these terms in consideration of entering into this Contract for the value specified in paragraph three (3).

Darea. N.C.	Enter the date
Meinco Septic Systems, Inc.	Date
Kelli Undake	8/2/2022
Client	Date

Elevations:

Bm. 7,9"

	G.E.	P.L.
Stub out:	5.0"	4.5"
Clean Out:	5.0"	6.5"
Tank In:	5:0"	Q.7"
Trank Out:	5.2"	· Le.10"
Discharge Pt.	4.7"	4:7"

Notes:

- " Install a 500 galloi Tradh tank."
- · Install a 1000/250 gallon taule who Biomerobics

 OF FAST unit in the 1000 gallon treatment zone.
- · Install a Solcor U.V. disinfection unit model 3 G 1451de The 250 gallon pump chamber.
- · Install a Zoeller BN 53 dose pump along with a Zoeller 10-00023 outdoor highwester alone. Flomp and alone must be as seperate breakers
 - · Pump treated effluent to South discharge Point.



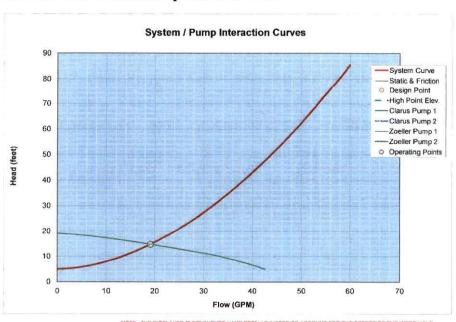
Static Head Information

Zoeller Company



System Head Curve and Pump Selection Tool

Static Head - elevation difference from low water to outfall	5.0 feet	į.	
System high point above outfall?	No		
	The second secon	-	
Friction Head Information			
Pipe			
		1	
How many different pipes in the system (not counting laterals)?	1		
Pipe 1 Length	250 feet	1	
Pipe 1 Size Pipe 1 Class	1 1/2 inches SCH 40		
Pipe 7 Class	SUN 40		
Ploe 2 Sue		100	
Pipe 2 Class	ISMINIS WITH		
Pipe 7 Length		187	11.5
Pipe 3 Stre	7 10 10 10 10 10	1	
Pspa 3 Clays			
Pressurized Laterals?	No	1	
How many are dosed at once?	and the same of	1	
taxes one in density		1	
Size of leteral		1	
Otens of reteral	MUMINISTATION OF]	
Fittings & Discharge Assemblies Type 90 Elbow	Size 1 1/2 inches	Quantity 5	Flow 100 %
Check Valve	1 1/2 inches	1	100 %
Gate Valve (full open)	1 1/2 inches	1	100 %
Special Friction Considerations			
Weep Hole	Yes	1	/8 "
Weep Hole Add-In Friction	15 % of Pipe Loss		1/8 "
Weep Hole Add-In Friction Automatic Multizone Valve?	15 % of Pipe Loss No		1/8 "
Weep Hole Add-In Friction Automatic Multizone Valve?	15 % of Pipe Loss	K	//8 "
Weep Hole Add-In Friction Automatic Multizone Valve? Pressure Filter?	15 % of Pipe Loss No	R	
Weep Hole Add-In Friction Automatic Multizone Valve? Pressure Filter? Operating Head Information	15 % of Pipe Loss No No	Speci	fy Flow
Weep Hole Add-in Friction Automatic Multizone Valve? Pressure Fitter? Operating Head Information System Type	15 % of Pipe Loss No	Speci Requi	fy Flow
Weep Hole Add-in Friction Automatic Multizone Valve? Pressure Filter? Operating Head Information System Type Required 7/ressure	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Mole Add-in Friction Automatic Multizone Valve? Pressure Filter? Operating Head Information System Type Inequired Pressure Inequired Pressure Industrial Opticipes	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Hole Add-in Friction Automatic Multizone Valve? Pressure Filter? Operating Head Information System Type Required 7/ressure	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Note Add-in Friction Automatic Multizone Valve? Pressure Filter? Operating Head Information System Type Readined Pressure Number of Onnoès Jace or Onlitras	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Mole Add-in Friction Automatic Multizone Valve? Pressure Filter? Operating Head Information System Type Inequired Pressure Inequired Pressure Industrial Opticipes	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Hole Add-in Friction Automatic Multicone Valve? Pressure Filter? Operating Head Information System Type Required Pressure Number of Onnoes Date of Onlines Spider Valve Online Sites (Data originates from Spider Valve	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Hole Add-in Friction Automatic Multicone Valve? Pressure Filter? Operating Head Information System Type Required Pressure Number of Onnoes Date of Onlines Spider Valve Online Sites (Data originates from Spider Valve	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Note Add-in Friction Automatic Multicone Valve? Pressure Filter? Operating Head Information System Type Inequired Pressure Number of Orinces Sprider Valve Orlifice Sizes (Data originales from Sprider Valve Spring Tab)	15 % of Pipe Loss No No	Speci Requi	fy Flow
Weep Hole Add-in Friction Automatic Multicone Valve? Pressure Filter? Operating Head Information System Type Required Pressure Number of Ontries Date of Ontries Date of Ontries Date of Ontries Date of Ontries Spider Valve Ontries Bates (Data originates from Spider Valve Spiner Yaty	15 % of Pipe Loss No No Non-Pressurized	Speci Requi	fy Flow
Weep Hole Add-in Friction Automatic Multicone Valve? Pressure Filter? Operating Head Information System Type Tequired Pressure Number of Ontreed Date of Ontreed Date of Ontreed Date of Ontreed Spiriter Valve Ontree Stone (Date outgrankler from Spiriter Valve Spiriter Table) Factors and Coefficients Hazen-Williams C Factor	15 % of Pipe Loss No No Non-Pressurzed	Speci Requi	fy Flow
Weep Hole Add-in Friction Automatic Multicone Valve? Pressure Filter? Operating Head Information System Type Required Pressure Number of Ontries Date of Outlines Spider Valve Ontries Stees (Data originates from Spider Valve Suring Tab) Factors and Coefficients	15 % of Pipe Loss No No Non-Pressurized	Speci Requi	fy Flow

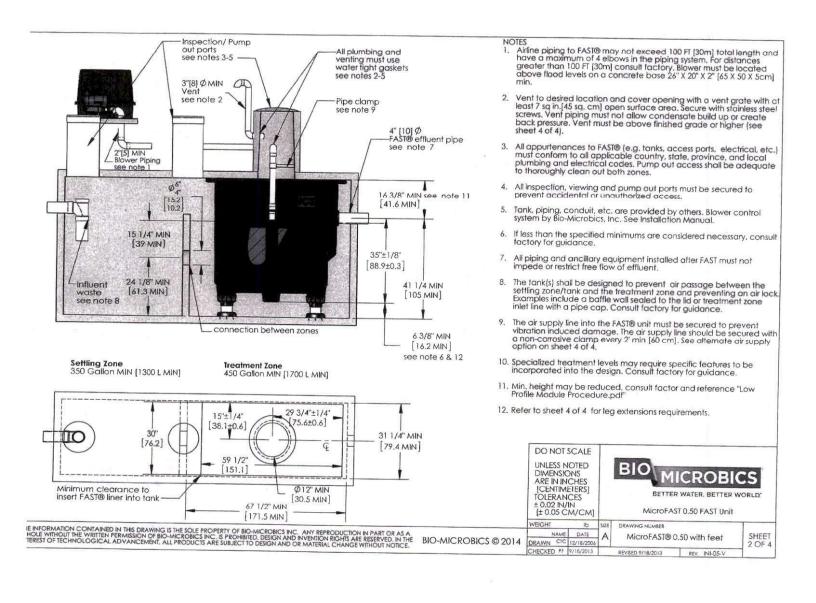


NOTE. THE DISPLAYED PUMP CURVES HAVE BEEN ADJUSTED TO ACCOUNT FOR THE EFFECT OF THE WEEP HOLE

Pump Selection	60 Hz Frequency	
Clarus Environmental	Pumps	Operating Points
Clarus Pump 1		1
Flow Control Coffice?		1
Clarus Pump 2		7
Glarus Pump 2	Annual Control of the	1
Flow Control Onlice/2	Sale Basic	1
Flow Control Offices Zoeller Pump Compan Zoeller Pump 1	y Pumps \$3/55/57/59, 0.3hp, 60Hz	19.2 GPM @ 14.7

Project Data		Notes:	
Project Name:	WHITAKER		
Project Address			
Contact Info:			

Curve Zoom Range | 60 GPM



Specifications for MicroFAST 0.50 Wastewater Treatment System

The contractor shall furnish and install [1] MicroFAST®0.50 treatment system as manufactured by Bio-Microbics, Inc. The treatment system shall be complete with all needed equipment as shown on the drawings and specified herein.

The principal items of equipment shall include the FASI® system insert, blower assembly, blower controls and leg extensions or lid. All other items will be provided by others. The MicroFAST 0.50 unit shall be situated within a 450 Gallon [1700L] minimum compartment as shown on the drawings. Suggested maximum settling zone is (1) X the daily flow. Tank must provide adequate pump out access and conform to local, state, and all other applicable codes. The contractor shall coordinate the proper fabrication of the tank between the FAST unit, and delivery to the job site.

2. OPERATING CONDITIONS
The MicroFAST 0.50 treatment system shall be capable of treating the wastewater produced by typical family activities (bath, laundry, kitchen, etc.) ranging from (1) one to (8) eight people and not to exceed 500 US Gallons per day (1800 LPD) provided the waste contains nothing that will interfere with biological treatment. The FAST system is a biological treatment system not meant for non-biodegradable or industrial wastewater.

3. MEDIA

3. MEDIA
The FAST® media shall be manufactured of rigid PVC, polyethylene, or polypropylene and it shall be supported by the polyethylene insert. The media shall be fixed in position and contain no moving or wearing parts and shall not corrode. The media shall be designed and installed to ensure that sloughed solids descend through the media to the bottom of the septic tank.

4. BLOWER
The MicroFAST 0.50 unit shall come equipped with a regenerative type blower capable of delivering 17-25 CFM [31-46 m3/hr]. The blower assembly shall include an inlet filter with metal filter element. The blower shall be mounted outside the tank on a contractor supplied concrete base. Blower piping to the tank shall use non-corrosive material (PVC, Galvanized, or stainless Steel). Do not run galvanized pipe inside the treatment tank. Refer to Installation Manual for further details.

The blower shall be placed on a contractor supplied concrete bose. The blower must not sit in standing water and its elevation must be higher than the tank and normal flood level. A two-piece, rectangular housing shall be provided. The discharge air line from the blower to the MicroFAST® System shall be provided and installed by the contractor.

8. ELECTRICAL
The electrical source should be within 150 feet [45 meters] of the blower consult local codes for longer wiring distances. All wiring must conform to all applicable codes(IEC, NEC, etc.).
Wiring distances must prevent significant voltage loss. Input power on 60Hz electrical systems 110/220VAC, 1Ø, 3.5/1.7 FLA, on 50 Hz electrical systems 220VAC, 1Ø, 1.9 FLA. Other voltages and phase are also available. Actual power consumption varies with site conditions. All conduit and wiring shall be supplied by contractor.

The control panel provides power to the blower and contains an alarm system consisting of a visual and audible alarm capable of signaling blower circuit failure and high water conditions. The control panel is equipped with SFR® (Sequencing Fixed Reactor) timed control feature. A manual alarm silence button is included.

8. INSTALLATION AND OPERATING INSTRUCTIONS

8. INSTALLATION AND OPERATING INSTRUCTIONS
All work must be done in accordance with local codes and regulations. Installation of the FAST 0.50 shall be done in accordance with the written instructions provided by the manufacturer.

Manuals shall be furnished, which will include a description of system installation, operation, and maintenance procedures.

9. FLOW AND DOSING
FAST® systems have been successfully designed, tested and certified receiving gravity, demand-based influent flow. When influent flow is controlled by pump or other means to help with highly variable flow conditions, then multiple closing events should be used to maximize performance. The flow rate shall not exceed 5 gpm (19 Lpm) with a maximum hourly flow not to exceed 10% of the design daily flow (50 gph (190 LPH)).

Bio-Microbics, Inc. warrants all new residential FAST® models (MicroFAST® 0.50, 0.625, 0.75, 0.90, and 1.5) against defects in materials and workmanship for a period of two years after installation or three years from date of shipment which ever occurs first. All other FAST® system models are warranted for a period of one year after installation or eighteen months from date of shipment, whichever occurs first. All are subject to the following terms and conditions below:

During the warranty period, if any part is defective or fails to perform as specified when operating at design conditions, and if the equipment has been installed and is being operated and maintained in accordance with the written instructions provided by 8io-Microbics, inc., 8io-Microbics, inc. will repair or replace at its discretion such effective posts free of charge. Defecting the returned by owner for 8io-Microbics, inc. 15 factory pastage paid, if so requested. The cost of labor and all other interests establing from replacement of the defective post are shall be born and replacement of the defective posts free and the swarpers of the cost of labor and all other interests such as state to be the cost of the cost of labor and all other interests shall be born and interests by the owner. This warranty does not cover general or pasts framework and the swarpers which have been datassembled by unauthorized persons, improperly installed or damaged a components which have been datassembled by unauthorized persons, improperly installed or damaged a component which have been damaged by flooding or any component part of pages. It is not to the results of the pages of the FAST system, or any component part or parts thereof with system. Bio-Microbics, inc. to make such changes or modify the construction and/or design of the FAST system, or any component part or parts thereof with system. Bio-Microbics, inc. to make such changes or modify the construction and/or design of the FAST system, or any component part or parts thereof with system. Bio-Microbics in the system of the FAST system, or any component part or parts thereof with system. Bio-Microbics in the system of the FAST system, or any component part or parts thereof with system. Bio-Microbics in the system of the FAST system, or any component part or parts thereof with system. Bio-Microbics in the system of the FAST system, or any component part or parts the system. Bio-Microbics in the system of the FAST system, or any component part or parts the system. Bio-

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, BIO-MICROBICS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FINESS FOR A PARTICULAR PURPOSE.

NO REPRESENTATIVE OR PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS.

-E INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BIO-MICROBICS INC. ANY REPRODUCTION IN PART OR AS A PHOLE WITHOUT THE WRITTEN PERMISSION OF BIO-MICROBICS INC. IS PROHIBITED. DESIGN AND INVENTION RIGHTS ARE RESERVED. IN THE HIEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

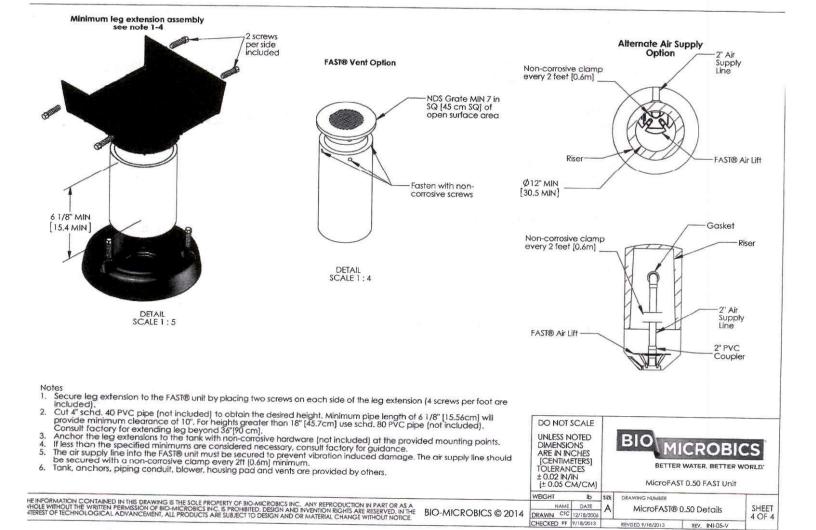
DO NOT SCALE UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS]
TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]

BIO-MICROBICS © 2014

MICROBICS BETTER WATER, BETTER WORLD

MicroFAST 0.50 FAST Unit

WEIGHT lb SIZE DRAWN CTC 12/18/2006 MicroFAST® 0.50 Specifications A SHEET 3 OF 4 CHECKED PF 9/18/2013 REVISED 9/18/2013 REV. INI-05-1



REVISED 9/18/2013

REV. INI-05-V



Basic Electrical Information for Septic Systems Using Pumps, Floats, and Warning Alarms or Control Panels

ALL Aspects of the wiring and electrical system must meet the current National Electrical Code.

- All components of a pumped septic system including: pump vaults, pump chambers, tank draw-downs, pumps, floats and alarms, controls, wiring, conduit, all electrical connections and breakers must be specified with examples included in the design by Designated Representative.
- All septic system electrical work must be performed by an Arkansas licensed Septic System Installer, or an Arkansas licensed Master Electrician.
- Any electrical work inside a building must be performed by the property owner, or an Arkansas licensed
 Master Electrician.
- All enclosures, panels, breaker boxes or other housings must be NEMA-4X rated with gas-proof and waterproof gaskets and seal offs.
- No exposed plug-in electrical cords are allowed, they must be entirely sealed in a NEMA-4X enclosure to be both gas resistant and water resistant.
- All wire splices and connections must be made with heat shrink-butt connectors, or silicone encapsulated wire nuts.
- All conduit opening s into control boxes, splice boxes, or alarm and breaker boxes must have gel-filled seal off kits or plugs.
- All power cable or wire must be UF (underground rated) and of correct gauge for the total amperage and total length of run.
- Any power cable or wire buried 12-inches or less deep must be entirely inside UF (underground rated)
 conduit of correct size to allow for heat dispersal of the wire.
- The pump must have an individual breaker of correct amperage in line of site to its location.
- The float/alarm set up must have an individual breaker of correct amperage in line of site to its location.
- The main breaker for the entire septic system set up must have amperage at least equal to pump, alarm, or control breakers coming to the main breaker. This main breaker must be labeled and its location noted on the septic system permit/design.
- No deviations from the approved design may be made without prior approval of Designated Representative and Environmental Health Specialist.



Wire Gauge Calculation Chart

- Indicates	wire is	insufficient	to carry	henl
		modificion	to carry	luau

*Information provided by Whelen Engineering, Inc.

Maximum Current Draw

22 AWG	6	3			1	1 - 1 -			45 Amps	GC MITIO
20 AWG	9.5	5	3							-0
18 AWG	15	7.5	5	4	3	-				-
16 AWG	24.5	12	8	6	5	4	3.5	3		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14 AWG	39	19.5	13	9.5	8	6.5	5.5	5	4.5	4
12 AWG	62	31	20.5	15.5	12.5	10.5	9	7.5	7	8
10 AWG	98	49	32.5	24.5	19.5	16.5	14	12.5	11	10
BAWG	156	78	52	39	31	26	22.5	19.5	17.5	15.5
8 AWG	248.5	124	82.5	62	49.5	41.5	36.6	31	27.5	25
4 AVVG	395	197.5	131	98.5	79	66	58.5	49.5	44	-
2 AWG	629	314	209	157	125.5	104.5	89.5	78.5	69.5	39.5 63

Maximum wire length - measured in feet.

	55 Amp	60 Amps	85 Amps	70 Amps	75 Amns	lan Amns	AS Amns	an Amne	los Amne	100 Amp
22 AVVG	100					30711130	- Artiba	do Amps	100 ATTHS	TOU AITH
20 AVVG		- 1 5		1				7.1		-
18 AWG	7			1.	4	2.5	17 17 17			
16 AWG	:		1	7.7.	7.54					
14 AVVG	3.5	3	3	3		- 1				-
12 AWG	5.5	5	5	4.5	4	4	3.5	3.5	3.5	3
10 AVVG	9	8	7.5	7	6.5	8	6	5.5	5	5
8 AWG	14	13	12	11	10.5	10	9	8.5	8	8
8 AWG	22.5	20.5	19	17.5	18.5	15.5	14.5	14	13	12.5
4 AWG	36	33	30.5	28	26.5	24.5	23	22	21	19.5
2 AWG	57	52.5	48.5	45	42	39	37	35	33	31.5

American Wire Gauge (AWG) - diameter in inches

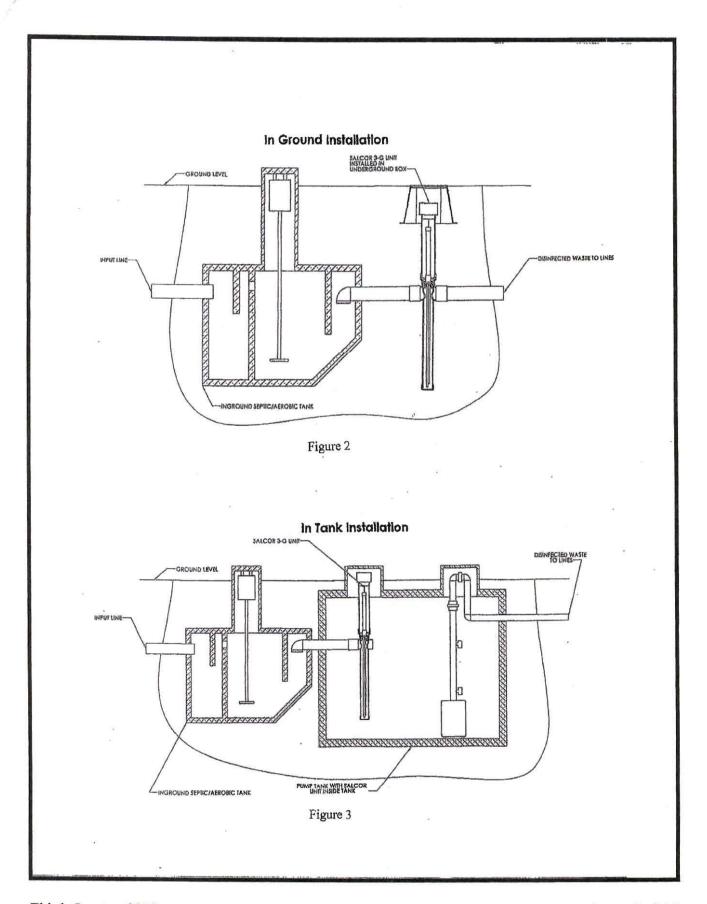
	Diamet
_Gauge	er
000000	0.5800
00000	0.5165
0000	0.4600
000	0.4096
- 00	0.3648
0	0.3249
1 ~	0.2893
7	חשרשר

	Diamet
Gauge	er
7	0.1443
8	0.1285
9	0.1144
10	0.1019
11	0.0907
12	0.0808
13	0.0719
4 4	0 0044

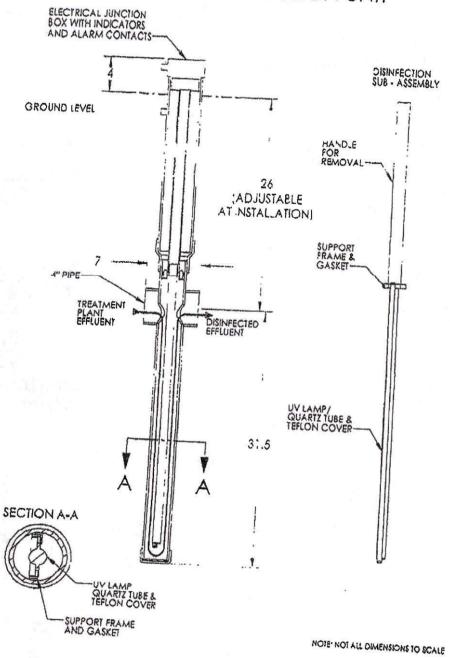
	Diamet
Gauge	er
19	0.0359
20	0.0319
21	0.0285
22	0.0253
23	0.0226
24	0.0201
25	0.0179
1 00	0 0470

	Diamete
Gauge	r
31	0,0089
32	0.0079
33	0.0071
34	0.0063
35	0.0056
36	0.0050
37	0.0045
20	U 00 40

SALCOR INC



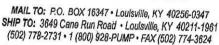
SALCOR UV DISINFECTION UNIT



"QUALITY PUMPS SINCE 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.







SECTION: 4.10.110 FM0732 0706 Supersedes 0705

Model 10-0623

visit our web site: www.zoeller.com

A-PAK - ALARM SYSTEMS

INDOOR/OUTDOOR ALARM SYSTEM FEATURES

- Indoor & Outdoor use per UL 864.
- UL Listed and CSA Certified.
- Alarm system (horn & light) operates to warn of a high water condition.
- Horn is rated 82 decibels at 10'.
- Alarm Test and Horn Silence Switch with auto reset.
- Terminal connections for a pump & float switch.

Standard Model (P/N 10-0623) Includes:

15 ft. float switch.

Deluxe Model (P/N 10-0682) Includes:

- · 20 ft. float switch.
- 6 ft. power cord plugs into 115V outlet.
- · Watertight cord connectors.

"A-PAK" ALARM SYSTEM FEATURES 10-1494 (115V/1Ph/9V DG)

- · Auto reset solid state alarm.
- 9 Volt battery back-up (battery not included).
- NEMA 1 non-corrosive enclosure for indoor use.
- · Manual shut off.
- Float operates on 12 VAC.
- Float switch with 15' cable included.
- 6 ft. power cord plugs into 115V outlet.
- · Horn is rated at 86 decibels at 10'.

"A-PAK II" ALARM SYSTEM FEATURES 10-0126 (115V/1Ph)

- NEMA 4X thermoplastic alarm panel.
- · Horn & light warn of high liquid levels
- · Test and silence switch.
- Auxiliary dry high level alarm contacts 5 amps.
- Operates on separate circuit from pump 115 VAC.
- UL Listed for US & Canada.
- Float switch with 15 ft. cable included.
- Can be used with liquids to 140°F (60°C).
- Horn is rated at 88 decibles at 10.

10-0015 (115V) / 10-0016 (230V)

- · Non-enclosed model.
- 6" magnetic bell with transformer.
- Mount on standard utility box (not included).
- Operates with 10-0743 float switch or mechanical alternator (not included).

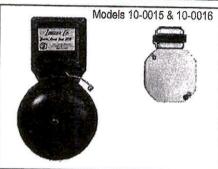








Note: All variable level float switches in this section are mechanically activated and do not contain mercury.



Zoeller Corp.

Company Profile

Service Stations

Comments

What's New

Home Page

Related Links

Contact Info

Extended Warranty

Order Info

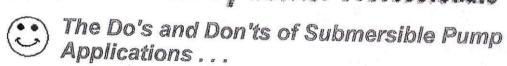
Technical Briefs

Pump Sizing Program.

Literature Index

Technical Support

Technical Briefs by Zoeller Professionals



Do thoroughly read all installation material provided with the pump.

Do inspect pump for any visible damage caused by shipping. Contact dealer if pump appears

Do clean all built up debris in sewage pit if debris can obstruct the pumps initial start up. Be sure that the pump will have a hard, flat surface beneath it.

Do be sure that the pit is large enough to allow proper clearance for the pumps float switch.

Do Always Disconnect Pump From Power Source Before Handling.

Do always connect to a separately protected and properly grounded circuit.

Don't ever cut, splice or damage the power cord. 8.

Don't carry or lift the pump by its power cord. Don't use an extension cord with a sewage pump.

Do install a check valve and a union in the discharge line.

Don't use a discharge pipe smaller than the pumps discharge size.

Do drill a 3/16" weep hole between the check valve and the pump housing. 12.

Do review all applicable local and national codes and verify that the installation conforms to each of them.

Do consult manufacturer for clarifications or questions.

Do consider a Two Pump System with an alarm where an installation may become overloaded or primary pump failure would result in property damage.

Don't flush any items that are not biodegradable such as paper towels, feminine hygiene products, condoms, or other items that could jam the pump impeller. A moderate amount of tissue paper in a system is acceptable.

Don't pour chemicals into the pump system such as acid's, floor wax, paints, or any degreasing chemicals. Common household soaps and detergents are acceptable. Contact the manufacturer with any chemical questions.

Do keep all warranty information, installation instructions, and receipts for future use.

Do size the pump to the proper capacity of the home. In a two-pump system each pump should be sized to meet the homes pumping requirements.

Do verify that the sewage pit is gas tight and well vented to prevent odors.

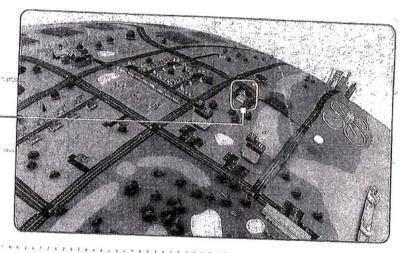
"QUALITY PUMPS SINCE 1939"

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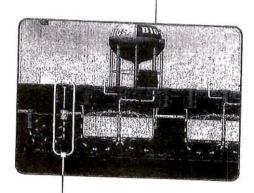
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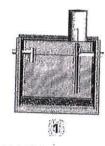


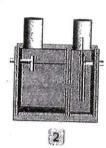


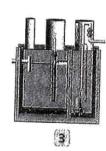
SaniTEE® Wastewater Screens

SaniTEE® self-cleaning wastewater deflection screens (commonly known as septic tank effluent filters) are designed to reduce suspended solids discharged in septic tank effluent by promoting natural sedimentation and excluding gas-lifted particles from entering the outlet pipe. Additionally, SaniTEE's patented keyhole weirs help to attenuate surge flows, delivering a more consistent flow for further treatment or dispersal. These features help extend the lives of drain fields, reduce the clogging of orifices in effluent disposal systems and allow flexibility in the use of different types of effluent pumps. SaniTEE wastewater screens are available in 4", 8" and 16" model sizes with flow capacities up to 20,000 GPD. Multiple screens can be used for flows higher than 20,000 GPD.



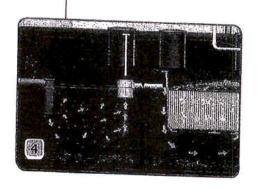




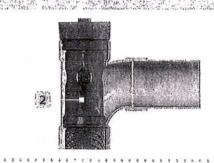


Applications

- Single Compartment Tank with Gravity Discharge Sanite in installed into the outlet tee of the tank. Its angled slots protect the drain field by retaining the suspended solids inside the tank.
- (23) Dual Compartment Tank with Gravity Discharge This configuration utilizes the SaniTEE in the outlet tee of the second compartment, and provides additional solids retention due to flow attenuation and the dual-compartment design.
- Dual Compartment Tank utilizing an effluent pump This configuration provides primary screening in the first compartment and allows flexibility in the use of different types of effluent pumps.
- Commercial Usage (in any of the above configurations) SaniTEE can also be utilized at such decentralized commercial properties as restaurants, laundromats, gas stations, beauty shops or veterinary clinics. When used in these applications, SaniTEE provides many benefits including prolonged drain field life and ease of maintenance.

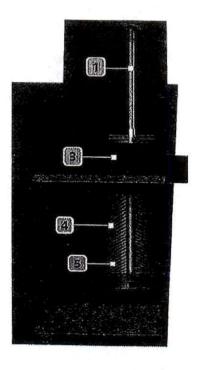






Unique Design Characteristics

- In the Interest of technological progress, all products are subject to design change without notice.
- Self-Cleaning Screen and Swab Feature The smooth exterior surface of the SaniTEE® promotes the deflection of solids back into the septic tank. Any solids that become trapped in the angled slots can be easily dislodged with a simple swab of the screen.
- Keyhole Weirs Surge flows are common in normal residential applications due to simultaneous discharge from many fixtures in the home (i.e. laundry day). The patented keyhole weirs provide flow attenuation to dampen these surge flows that otherwise may scour solids out of the septic tank with the effluent.
- Custom Diverter Used in 8" and 16" SaniTEE applications, the diverter acts as a custom-engineered outlet tee to prevent scum and gas-lifted solids from being discharged into the drainfield. Once the custom diverter is secured to the tank wall and connected to the outlet pipe, the SaniTEE screen easily slips into the diverter like a sword in a sheath.
- Angled Stots Angled slots, similar to those used in industrial well screens, are used because they resist blinding (clogging) better than mesh-type screening devices. The appropriate slot width does not allow nuisance solids to be discharged. Additionally, it has been found that most solids suspended in a tank float horizontally, like a leaf at the water surface. Therefore, the angled orientation of the slots is most likely to block the entrance of most solids.
- Gas-lifted Solids Deflection It is well known that solids are lifted by various gasses present in septic tanks. These gas-lifted solids often rise into the end of the outlet tee and are discharged with the effluent. When SaniTEE is utilized, flow must enter from the side, not the bottom, so the escape of gas-lifted solids is virtually eliminated.



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Simple Installation and Maintenance

The installation of SaniTEE consists of dropping it inside a standard septic tank outlet tee or custom diverter. When cleaning the SaniTEE, simply move the swab handles forcefully up and down to pass the swab through the center or exterior of the screen. This swabbing action will dislodge any debris that might be trapped in the angled slots. If inspection is required, SaniTEE can be removed easily by simply lifting the screen out of the outlet tee or diverter.



Better Water. Better World.



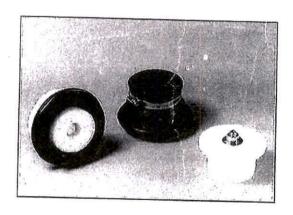
CAST-A-SEAL® 402/402F

CAST-IN BOOT-TYPE CONNECTOR for 1-1/4" to 6"PVC Dine

for 1-1/4" to 6"PVC Pipe (32 mm - 150 mm)

What It Is

CAST-A-SEAL 402/402F is a watertight flexible connector that is cast into the structure when the concrete is poured. The connector is folded into the casting position and placed on the reusable heavy-duty solid plastic mandrel that is installed directly to the form. After the concrete is cured, the form is opened, removing the mandrel from the gasket, but leaving the CAST-A-SEAL 402/402F connector embedded in the concrete. The gasket is then simply unfolded at the jobsite and is tightened around the pipe using the supplied stainless steel take-up clamp.



Why It's Better

- Simple cast-in design provides flexible watertight connection
- Eliminates infiltration and exfiltration
- Improves on-site system performance and minimizes maintenance
- Protects groundwater from unintended discharges
- Use in on-site treatment structures, grease interceptors, manholes, wet wells, pump and lift stations, stormwater structures, or any application requiring a flexible watertight connector

How It Performs

CAST-A-SEAL 402/402F meets or exceeds all requirements of the following Standards, Codes, Specifications and/or Test Methods:

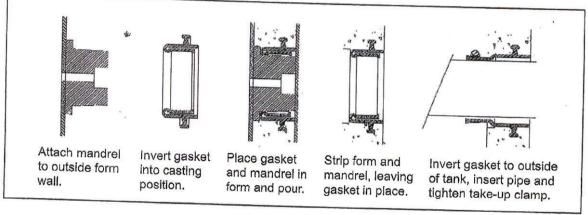
ASTM C 1227 ASTM C 1644

IAPMO Z1000 IAPMO Z1001

ASTM C 923 ASTM C 1244

NPCA Best Practices NOWRA Model Code

ASTM C 1478



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Protecting Our Planet's Clean Water Supply
Press-Seal Gasket is an ISO 9001:2008 Registered Company

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Junction Boxes



UL listed and CSA certified high impact, corrosion resistant, weatherproof thermoplastic enclosure with flexible PVC gasket and brass screws. Presassembled at the factory for convenience and ease of installation.







Junction Boxes CL0625											
Part Number	Description										
10-1398	4"x4"x4" J-Box w/ 0.75" hub. 4 small cord grips 1 plug										
10-1399	4"x4"x4" J-Box w/ 1.5" hub, 4 small cord grips, 1 plug										
10-14-02	16 X6 X4" J-Box w/ 1.5" hub. 4 small cord grips 1 plug										
10*1H03	6"X6"X4" J-Box w/ 2.0" hub, 5 small cord grips, 1 plug										
10-1710	6"x6"x4" J-Box w/ 2.0" hub, 6 small cord grips, 1 plug										

