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): William El-Amin	Operator Type:
Permittee Mailing Address: 405 Sherman Hills Road	
Permittee City: _Jacksonville	
Permittee State: Arkansas Zip: 72076	
Permittee Telephone Number: _501-626-9544	*State of Incorporation:
Permittee Fax Number: NA	The legal name of the Permittee must be identical to the name listed with the
Permittee E-mail Address: Welamin1978@gmail.com	identical to the name listed with the
II. INVOICE MAILING INFORMATION (Home owners are exemp	ot.)
Invoice Contact Person: N/A	City:
Invoice Mailing Company:	State: Zip:
Invoice Mailing Address:	Telephone:
Facility Address: 405 Sherman Hills Road Telephote Facility County: Lonoke Facility City, Facility Latitude: 34 Deg 51 Min 33.13 Sec Facility Longitude: Datum	Milliam El-Amin
IV. DISCHARGE INFORMATION	
Outfall Latitude: 34 Deg 51 Min 32.47 Sec Outfall Longitude:	Flow: 450 gpd (Gallons per Day) asin Code: 111 102 07 ude: 92 Deg 3 Min 12.67 Sec
Accuracy: Method: :	Scale: Description:
Type of Treatment: Norweco Singulair Green 960 with Chlorine	
Receiving Stream: Arkansas River	
V. FACILITY PERMIT INFORMATION	
NPDES General Permit Number (If Applicab	
NPDES General Permit Number (If Applicab State Construction Permit Numb	
NPDES General Construction Stormwater Permit Number (If Applicab	

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

VI.	OTHER INFORMATION:		
	Operator Name:	David Meints 009055 License Class: I	TT .
	Operator License Number:	009033 Electise Class. 1	11
	Consultant Contact Name:	Zanara da	
	Consultant Email Address:	david@meincowastewater.com	Zip: 72089
	Consultant Address: Consultant Phone Number:	PO Box 1001 City: Bryant State: AR 501-804-0837 Consultant Fax Number: 501-8	
Han			321 1010
	losure Statements:	proved by AHD? Yes 🛛 No 🗌	
		-1-106 requires that all applicants for the issuance or transf	
stater	ment with their applications. The out one. You must submit a new	issued by the Arkansas Department of Environmental Quality filing of a disclosure statement is mandatory. No application of disclosure statement even if you have one on file with the Dehttp://www.adeq.state.ar.us/disclosure_stmt.pdf.	an be considered complete
W	understand that the Do (Initial) "I certify under penalt supervision in accord evaluate the informat gathering the informa and complete. I am a	the provisions of 40 CFR 122.22(b). If no cognizant offici- epartment will accept reports signed only by the Applicant." by of law that this document and all attachments were preparalled that this document and all attachments were preparalled to assure that qualified person on submitted. Based on my inquiry of the person or person tion, the information submitted is, to the best of my knowledge ware that there are significant penalties for submitting false is imprisonment for knowing violations."	red under my direction or onnel properly gather and as directly responsible for
	Cognizant Official Printed Name	Date: 47-23 Welamin 1978 agma: 1.com David Meints Title: Class	III Operator
	Responsible Official Signature Responsible Official Email Cognizant Official Printed Name Cognizant Official Signature	Date: 4,7-23 Welamin 1978 agmail.com David Meints Title: Class	III Operator

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

Dearle



Arkansas Department of Health Environmental Health Protection

25445023

Individual Onsite	Wastewater	Syst	em P	ermit	Applica	ation				Fee Schedule for	Structu	res		1
Permit Type	Ø	Ne	w Insta	allation	i e		Structu	res 18	500 sq	ft or less			\$ 30.00	
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DR Environmental ID			-							an 3000 sq ft and up	to 400	0 aq ft	\$120.00	
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17. Loading Rates	(gpd/ft²)	18.	Systen	n Spe	cifications	1	1		12.12.5				<u> </u>	
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TO THE OWNER														
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Owner/Applicant Sig	nature	-6	LA	2	XX					Date	*	9-18	2)0	
20. I certify that I had Arkansas Depart	ave conducte	the s	bove	ests a	nd that th	e above lis	sted info	matic	on is i	In accordance wit	h the la	stest require	ments of th	е
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David	1 800	10	ste	lo	zz					D.R.	S	oll Certified	⊠ Yes	∐ No
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EHP-19 (R 8/13) Page	/	1/2		1	1			X	ero	1 /	77	-22	vod	ito

Individual	Onsite	Waste	water System	π Permit Appli	ination			
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EHS / License Number

Signature

* Optional System Utilization Verification Form



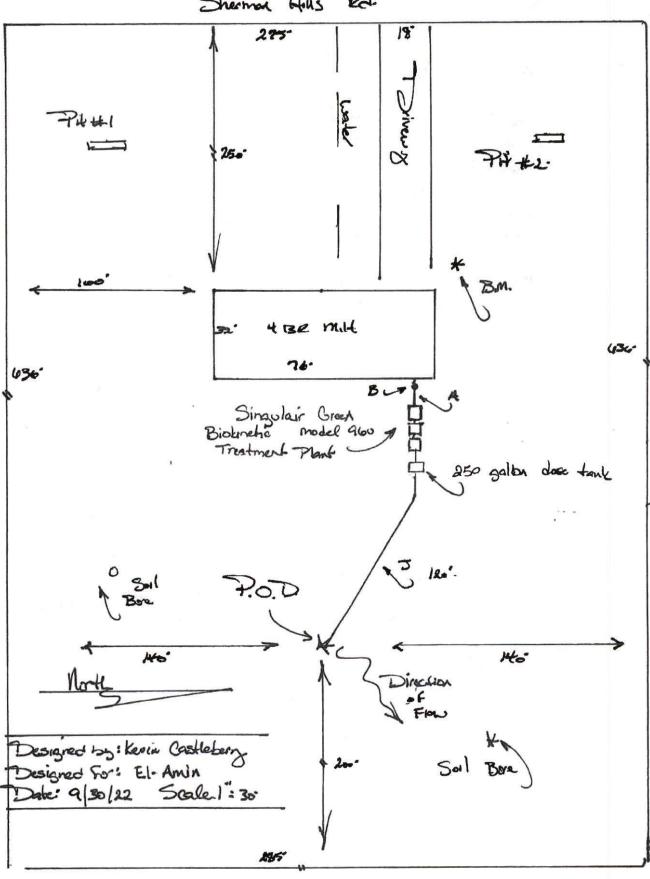
Arkansas Department of Health Environmental Health Protection

Receipt Number	

1.10.11		
Individual Onsite Wastewater System Permit Application	Fee Schedule for Structures	1
Permit Type New Installation	Structures 1500 sq ft or less \$ 30,00	
☐ Alteration / Repair	Structures more than 1500 sq ft and up to 2000 sq ft	
DR Environmental ID #	Structures more than 2000 sq ft and up to 3000 sq ft \$ 90.00	D
	Structures more than 3000 sq ft and up to 4000 sq ft \$120.00	
7602132090	Structures more than 4000 sq ft \$150.00 Alteration and Repair	
□ Homeowner	\$ 30.00	
□ Builder/Developer		
TO THE PROPERTY OWNER		
Onsite Wastewater System Utilization Verification	lon	
Property location: Lot 18/19 Swarp (Address of Proposed	erman Hills Rd Jacksonvilled System, City, State, Zip)	Le AR
the square footage of the structure that will system in this permit application is accurate. I understand the layout, Installation, maintenance associated with this system.	utilize the designed onsite wastewa have reviewed the permit application a	iter ind
As Developer/Builder, I hereby attest that the the sale of the property, I will convey, to the b system.	above information is correct and prior ouyer, all information associated with the	to his
Owner/Applicant Signature)^_	
Date 9 30 22		
This document must be submitted with the permit applie (number 19 on the EHP-19) is not signed.	cation, if the Owner/Applicant Signature Section	on

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

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ENVIRONMENTAL

Zoeller Company



System high point above outfal? Friction Head Information Pige Hw many different piges in the system (not counting laterals)? Pige 1 Length Pige 1 Size Pige 1 Class Pige 1 Class Pige 1 Class Pige 1 Class	5.0 feet 1.20 feet 1.12 inches SCH 40		Head (feet)	09 06 1		System	Pump Inte	System / Pump Interaction Curves	ves
Fittings & Discharge Assemblies Type 90 Ebow	Size 1 1/2 inches	Quantity Flow		8			\setminus		
Gate Valve (full open)	1 1/2 inches	88		9	\	X		/	
Special Friction Considerations Weep Hole Add-in Friction	Yes 15 % of Pipe Loss	1/8 "		,				/	
Automatic Multizone Valve? Pressure Filter?	0 V)	10	20	30	40	20

Zoeller Pump 2
 Operating Points

-Zoeller Pump 1

-Static & Friction

-System Curve

- ·High Point Elev. -Clarus Pump 1 --- Clarus Pump 2

Design Point

NOTE THE DISPLAYED PUMP CURVES HAVE BEEN ADJUSTED TO ACCOUNT FOR THE EFFECT OF THE WEEP HOLE Curve Zoom Range 60 GPM Project Data Project Name: Project Address Contact Info:
 Zoeller Pump
 SASSATISS, 0.3hp, 60Hz
 24.2 GPM @ 13.1*

 Zoeller Pump 2
 2.0eller Pump 2
 Operating Points ins Pump 2

Factors and Coefficients Hazer-Williams C Factor Discharge Coefficient (Cd) Lateral Design Mode

70

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Version 4.50

norweco •

SINGULAIR GREEN® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM

MODELS 960 AND THT WITH SERVICE PRO® CONTROL CENTER

SPECIFICATIONS

GENERAL SPECIFICATIONS

The contractor shall furnish and install one complete Singulair Green Bio-Kinetic wastewater treatment system with all necessary parts and equipment as described in the following specifications. Treatment of the domestic wastewater shall be accomplished by the extended aeration process with non-mechanical flow equalization, pretreatment of the influent and filtration of the final effluent. The treatment system shall provide primary, secondary and tertiary treatment of the wastewater flow, and if required, chlorination and dechlorination of the effluent prior to discharge. All treatment processes shall be contained within a single tank which shall be manufactured using high density polyethylene resin. The wastewater treatment system shall be a Singulair Green as manufactured by Norweco, Inc., Norwalk, Ohio, USA. Systems not including integral pretreatment or non-mechanical flow equalization shall not be considered for this application.



The wastewater treatment system shall include high density polyethylene tankage providing separate pretreatment, aeration and final clarification chambers. The tankage shall be furnished with a Schedule 40 PVC inlet hub, removable sealed pretreatment cover, submerged transfer ports, aerator mounting riser with removable vented cover, molded outlet coupling, Bio-Kinetic system mounting riser with removable sealed cover and Schedule 40 PVC outlet hub. Principal items of electro-mechanical equipment supplied with the Singulair Green wastewater treatment system shall be a UL Listed 1725 RPM mechanical aerator, UL Listed Service Pro electrical control center, Bio-Static sludge return and a Bio-Kinetic tertiary treatment device for flow equalization and final filtration of system effluent.

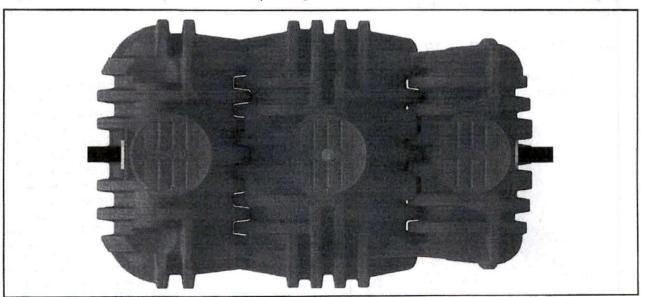
SINGULAIR GREEN®

OPERATING CONDITIONS

The Singulair Green system shall be certified to treat up to 600 GPD (gallons per day) of domestic wastewater. Total holding capacity of the system shall provide a minimum of 48 hour retention of the daily flow. The pretreatment chamber shall provide at least 18 hour retention, the extended aeration chamber shall provide at least 24 hour retention and the clarification chamber shall provide at least 6 hour retention. The non-mechanical flow equalization device shall increase each individual chamber and total system retention time in direct proportion to loading. Design of the system shall include a compartmented tank and a non-mechanical flow equalization device to insure successful treatment performance without upset even when the significant runoff period is six hours. Hydraulic design considerations of the system and flow equalization device shall be such that intermittent peak flow factors as high as four shall not upset hydraulic reliability within the system. Capability of the system to perform as outlined shall be certified by an independent testing laboratory and approved for use by the local governing regulatory agency.

PRETREATMENT CHAMBER

The pretreatment chamber shall be an integral part of the wastewater treatment system. All domestic wastewater shall be preconditioned and flow equalized while passing through the pretreatment chamber prior to being introduced to the extended aeration chamber. The outlet of the pretreatment chamber shall be equipped with a discharge tee that extends vertically into the liquid so that only the preconditioned equalized flow from the center area of the chamber is displaced to the extended aeration chamber. The discharge tee and transfer port shall be of adequate size to handle a peak flow factor of four without restricting the outlet and disturbing hydraulic displacement to the extended aeration chamber. A removable inspection cover shall be incorporated into the top of the pretreatment chamber to allow tank and transfer tee inspection.



AERATION CHAMBER

The extended aeration chamber shall provide in excess of 24 hour retention of the equalized daily flow. The chamber shall be of sufficient size to provide a minimum of 80 cubic feet of tank capacity per pound of applied BOD. The aeration chamber shall be an integral part of the system flow path and configured to insure effective mixing of microorganisms, wastewater and fresh air. No area of the chamber shall be isolated from process mixing, thereby eliminating dead or quiescent areas of the treatment chamber which are detrimental to the treatment process. Influent into the aeration chamber shall be preconditioned, equalized flow from the pretreatment chamber and settled solids via the Bio-Static sludge return.

FINAL CLARIFICATION CHAMBER

The final clarification chamber shall consist of 5 functionally independent zones operating together to provide satisfactory settling and clarification of the equalized flow. An inlet zone shall be provided and shall dissipate transfer turbulence at the flow inlet of the clarification chamber. Its performance shall also eliminate turbulence in other zones of the clarifier. Liquid

shall be hydraulically displaced from the inlet zone to the sludge return zone. Hydraulic currents shall sweep settled sludge from the hoppered walls and return these solids via the inlet zone to the aeration chamber. As solids are removed, liquid is displaced to the hopper zone of the clarifier. In this zone, settling by gravity takes place. Three of the four sidewalls are slanted to form a hopper which directs all settled material back to the sludge return zone. Clarified liquid from the hopper zone shall be displaced into the final settling zone to provide additional clarification of the liquid. The liquid is displaced to the outlet zone for final filtration and discharge from the system. Non-mechanical equalization of the flow, through all 5 zones, shall provide optimal settling and clarification.



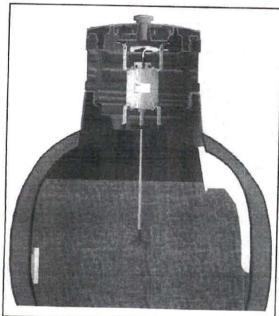
BIO-STATIC® SLUDGE RETURN

A Bio-Static sludge return shall be mounted into the opening in the aeration/clarification chamber wall to provide positive return of settled solids. Aeration

chamber hydraulic currents shall enter the sludge return and be directed through the Bio-Static device into the second zone of the clarification chamber. The Bio-Static sludge return shall accomplish resuspension and return of settled solids without disturbing the clarified liquid in the final settling zone and outlet zone.

MECHANICAL AERATOR

The Singulair aerator shall be installed in a rotationally molded, heavy duty, high density polyethylene aerator mounting riser above the aeration chamber. Fresh air shall be supplied through a rotationally molded, heavy duty, polyethylene

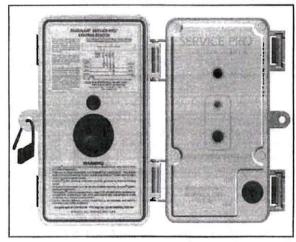


access cover above the aerator. The vented access cover shall be threaded and secured to the mounting riser with two security screws. The aerator shall be UL Listed and include plated mounting brackets, NEMA 6 rated electrical connector, fractional horsepower motor, molded plastic lifting handle, molded plastic air intake screens, molded plastic foam restrictor, stainless steel aspirator shaft and molded glass-filled nylon aspirator tip. The motor shall contain precision manufactured o-ring type seals installed between the motor shell and the machined aluminum endbells to insure watertight integrity. Molded Viton elastomer shaft seals shall protect the bearings from contamination. Only the stainless steel aspirator shaft and glass-filled nylon aspirator tip shall be in contact with the liquid. There shall be no submerged electrical motors, bearings or fixed air piping in the aeration system. The Singulair aerator motor shall not exceed the motor nameplate rating when installed and operated as recommended. The fractional horsepower aerator motor shall be equipped with a foam restrictor to protect the motor against high water and foam. The motor shall be 4 pole, 1725 RPM, 115 volt, 60 hertz, single phase, ball bearing constructed with a 1.0 service factor. It shall draw 4.0 amps when operating at the rated nameplate voltage. Aerators without UL listing have not demonstrated compliance with international electrical standards for safety and reliability and shall not be considered for this application.

BIO-KINETI

SERVICE PRO® CONTROL CENTER

The Service Pro electrical control center shall control all aspects of treatment plant operation using a microprocessor based platform. The prewired control center shall contain nonvolatile memory to prevent the loss of programming in the event of a power failure. For protection of wiring and components, the electrical controls shall be mounted in an injection molded, lockable, corrosion proof. NEMA rated enclosure designed specifically for outdoor use. The enclosure shall be equipped with a tamper evident seal to discourage unauthorized access. The Service Pro control center shall be a UL Listed assembly and shall include a time clock, alarm light, audible alarm, reset button and power switch. The control center shall monitor all treatment system operating conditions including aerator over current, aerator under current and open motor circuit. In the event the control center detects one of these conditions, power to the aerator shall be interrupted, a diagnostic sequence shall begin and the visual alarm shall activate. After a programmed recovery interval, an automatic restart attempt shall be initiated. If normal aerator operation does not resume during 24 programmed recovery and restart cycles, the audible alarm shall activate.



TIME CLOCK

The aerator run cycle shall be controlled by an adjustable, prewired time clock. The minimum setting shall not permit the aerator to be "off" for more than 30 minutes per hour. It shall be adjustable in 5 minute increments and designed such that any adjustment results in additional run time up to "continuous" operation (60 minutes per hour). The Service Pro TNT controls shall include a non-adjustable time clock. Use of a time clock can seriously affect system performance and operating cost. Systems that have not been performance certified at the minimum time clock setting by an independent testing laboratory shall not be considered for this application.

SERVICE PRO® ADVANCED CONTROLS (Optional)

Advanced system control options shall be available for all Singulair Green Bio-Kinetic wastewater treatment systems. Service Pro control center options include the Service Pro control center with Monitoring, Compliance and Diagnostic (MCD) technology and the Service Pro control center with Total Nitrogen Treatment (TNT) technology.

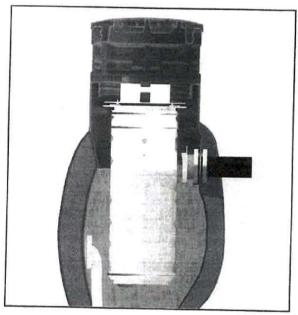
The Service Pro control center with MCD technology shall be a UL Listed assembly and shall include a time clock, integral telemetry system, main alarm light, power light, phone light, aerator alarm light, three auxiliary alarm lights, reset button and power switch. The control center shall monitor all treatment system operating conditions including aerator over current, aerator under current and open motor circuit. In the event the control center detects one of these conditions, power to the aerator shall be interrupted, a diagnostic sequence shall begin and the visual alarm shall activate. After a programmed recovery interval, an automatic restart attempt shall be initiated. If normal aerator operation does not resume during 24 programmed recovery and restart cycles, the audible alarm shall activate and the telemetry system shall report the specific condition to the Service Pro monitoring center. In the event that any of the auxiliary inputs detect abnormal operation of the treatment system auxiliary equipment, the audible and visual alarms shall immediately activate and the telemetry system shall report the alarm condition to the monitoring center.

The Service Pro TNT control center shall provide the same Monitoring, Compliance and Diagnostic functions as the Service Pro control center with MCD technology. However, the Service Pro TNT control center shall include a non-adjustable time clock. The non-adjustable time clock shall create a 60 minute aeration cycle followed by a 60 minute anoxic cycle during which the aerator shall be off. This aeration cycle shall insure Total Nitrogen Treatment of the wastewater.

SPECIFICATIONS

BIO-KINETIC® SYSTEM

A Bio-Kinetic system shall be installed in the mounting riser above the clarification chamber. The Bio-Kinetic system shall provide non-mechanical flow equalization through all plant processes including pretreatment, aeration, clarification, tertiary filtration, chlorination and dechlorination. The assembly shall be supplied with locking lugs and removable moisture/vapor shield and shall consist of a design flow and peak flow micronically molded filter, baffled perimeter settling zone, flow distribution deck, lifting handles, level indicator, adjustment lugs, optional chlorination feed tube, unbaffled perimeter settling zone, solids contact zone, vertical inlet zone, compartmented settling zone consisting of 42 baffled chamber plates, effluent stilling well, final discharge zone, adjustable outlet weir, optional dechlorination feed tube, outlet zone and gasketed discharge flange. All components shall be manufactured from inert synthetic materials or rubber, assembled in circular fashion and connected to a plastic outlet coupling. The outlet coupling shall accept a 4" diameter, Schedule 40 PVC pipe. The Bio-Kinetic system shall be installed with the inverts of the design flow equalization ports located at the normal liquid level of the clarifier. If intermittent flow rates exceed the capacity of



the design flow ports, flow shall be held upstream until the intermittent flow dissipates. If the intermittent flow continues to increase, the liquid level may reach a pair of sustained flow equalization ports. With four ports in use, flow through the system increases while continuing to provide flow equalization to all upstream and downstream processes. Peak flow equalization ports are supplied but should not be required. Optional Blue Crystal and Bio-Max tablet feed tubes shall be positioned such that the flow-activated chemical cannot contact the liquid upstream of the feed tubes.

FLOW EQUALIZATION

The wastewater treatment system shall include a demand use, non-mechanical, flow equalization device. The device shall control normal residential flow rates and reduce typical residential flow surges. The flow equalization rate shall be dependent upon the specific loading pattern and the duration of flow surges. At the 600 GPD (gallons per day) NSF Standard 40 design loading schedule, minimum performance of the device shall equalize daily flow an average of 50%.

SERVICE PRO® MONITORING CENTER

The Service Pro monitoring center shall include a 256 bit encrypted password protected website for interface with the monitoring center database. Access to the secure website shall be obtained through a unique user name and password that provides tiered access to data from monitored treatment systems. Access level tiers shall include dealers, service providers, regulatory agencies and individual system owners. Dealers and service providers



shall be able to create accounts, maintain service records and grant regulatory agencies access to the information. Individual system owners shall be able to view information regarding their own systems, as well as download instructional information. Integrity of stored data shall be maintained through the use of multiple servers operating in geographically isolated locations.

BLUE CRYSTAL® CHLORINATION SYSTEM (Optional)

The Singulair Green system shall be furnished complete with a tablet feed tube and a six month supply of Blue Crystal disinfecting tablets. Blue Crystal tablets shall be specifically formulated for consistent chlorine dosage and effluent disinfection to the sustained, variable and intermittent flows that are typical of domestic wastewater treatment systems. The tablets shall be manufactured from pure calcium hypochlorite and contain a minimum of 70% available chlorine. Each tablet shall be $2^5/8^\circ$ diameter, compressed to a 1" thickness, weigh approximately 5 ounces and be white in color with blue crystals for easy identification. The tablets shall dissolve in direct proportion to the flow rate, releasing controlled amounts of chlorine.

BIO-MAX® DECHLORINATION SYSTEM (Optional)

The Singulair Green system shall be furnished complete with a tablet feed tube and a six month supply of Bio-Max dechlorination tablets. The dechlorination tablets shall contain 92% sodium sulfite as the active ingredient and shall be specially formulated to chemically neutralize both free and combined chlorine. Each tablet shall be 25/8" diameter, compressed to a 13/16" thickness, weigh approximately 5 ounces and be green in color for easy identification. The tablets shall dissolve slowly, releasing controlled amounts of chemical for the instantaneous removal of residual chlorine from the system effluent.

WARRANTY AND EXCHANGE PROGRAM

The manufacturer shall provide a three year limited warranty for each Singulair aerator, control center, Bio-Kinetic system and any other electro-mechanical components purchased from the manufacturer. The comprehensive aerator exchange program offers a lifetime of equipment protection. The dealer shall provide warranty and exchange information to the regulatory agency, contractor and customer as required.



EQUIPMENT MANUFACTURER

The equipment specified herein shall be the product of a manufacturer having a minimum of seven years experience in the construction of prefabricated wastewater treatment equipment and systems. Bids shall be prepared on the basis of the equipment and material specified herein for purposes of determining the low bid. This is not done, however, to eliminate other products or equipment of equal quality and efficiency. If equipment is to be substituted, approval of such substitution must be made prior to execution of any order. It is assumed that substitution will result in a reduction of cost to the contractor and that if accepted, these savings will be passed along by a reduction in the base bid.

PROGRESS THROUGH SERVICE SINCE 1906



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220 REPUBLIC STREET NORWALK, OHIO, U.S.A. 44857 TELEPHONE (419) 668-4471 FAX (419) 663-5440 www.norweco.com

Norweco*, Norweco.com*, Singulair*, Modulair*, Travalair*, Singulair R3*, Singulair Green*, Ribbit Rivet*, Hydro-Kinetic*, Hydro-Kinetic Bio-Film Reactor*, Evenair*, Lift-Rail*, Microsonic*, Bio-Dynamic*, Bio-Sanitizer*, Bio-Neutralizer*, Bio-Max*, Bio-Kinetic*, Bio-Static*, Bio-Gem*, Bio-Perc*, Biue Crystal*, Phos-4-Fade*, Enviro-C*, ClearCheck*, ChemCheck*, Tri-Max*, Hydra-Max*, Service Pro*, MCD*, TNT*, WASP*, Grease Buster* and "BUSTER" logo* are registered trademarks of Norwalk Wastewater Equipment Company, Inc.

SERVICE AND MAINTENANCE CONTRACT

1		Villatif I. CI-AMM	is be	etween Meinco Septic Systems, Inc., ("Meinco") and _, ("Client"), referred to individually as a "Party" and
	С	ollectively as the "Parties."		and and and
2	IV	fervice Location. This is a Contract for septice feinco for Client located at 911 Address of Site ereinafter referred to as the "Service Site."	syst	em service and maintenance services provided by
3.	m	nore specifically below (hereinafter referred to a	ned s "S	red Dollars (\$100.00) for septic system every Three Months (Quarterly) and described service Work"). Meinco and Client agree that the ct and the services set forth below and reflects the
4.	eff Me of	aterials Charges. During reguler maintenance Meinco will be blace materials necessary to keep the septic system operating liciently (chlorine tablets, UV light bulbs, floats, filters, etc.), elinco and Client agree that Meinco shall submit to client the costs maintenance parts and materials and Client will promptly pay the me.	9.	Modification to System. If the septic system is modified, abused, mis-used, or altered, then Meinco'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
5.	A)	This paragraph is inapplicable. 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, Meinco shall submit to Client a laboratory fee of \$125.00 and Client will promptly pay the same.	10.	costs of repairs, modifications, parts, and labor. Meinco may, at its 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. Access to System. Client agrees to provide Meinco access to the septic system as well as its parts and components.
6.	Sei	rvices Provided. Meinco agrees to provide the following Service rk 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, MEINCO MAY TERMINATE THIS CONTRACT AT ANY TIME AND WITHOUT PREVIOUS NOTICE TO CLIENT.
	B)	This paragraph is inapplicable. Necessary sampling and submission of paperwork every month(s) or as required to comply with the Arkansas Department of Health Onsite Maintenance Program. Necessary paperwork every 6 month(s) assertions.	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.
	223	Necessary paperwork every 6 month(s) as required to comply with the Arkansas Department of Health and/or the Arkansas Department of Environmental Quality. I. This paragraph is inapplicable. II. Sampling of discharge every 6 month(s) in coordination with a 3rd party laboratory for required laboratory tests.		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, 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
	mont page			indirectly employed by them or anyone for whose acts they may be 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 syste	Requirements. This contract shall be null and void if septic of m flow exceeds 500 gallons per day.		person described in this paragraph.

- Assignment. Client agrees that even though this is a contract for services, Meinco 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 and 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.
- 19. 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. Waiver of Agreement Terms. Meinco, at its sole discretion and leisure, may waive any term in this Agreement. Such waiver 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 valid 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 state 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 Cilent 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).

Dea. Ned	09/30/2022
leinco Septic Systems, Inc.	Date
200 201-	09/30/2022
lient	Date



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.
- 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).
- 8. 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:	L	1020)		SIGNED:	
DATE:	9	(Property	Owner)	DATE:	(Health Department)

EHP-35 (R 1/13)

"QUALITY PUMPE SINCE 1939"

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



MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624 **Z**

SECTION: 4.10.110 FM0732 0706 Supersedes

visit our web site:

A-PAK - ALARM SYSTEMS

INDOOR/OUTDOOR ALARM SYSTEM FEATURES

- · Indoor & Outdoor use per UL 864.
- · UL Listed and CSA Certified.
- · Alarm system (hom & light) operates to warn of a high water condition.
- · Hom 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 1454 (115V/1Ph/9V DC)

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.

Hom is rated at 86 decibels at 10'.

A PAK III ALARM SYSTEM FEATURES

10-5126 (415V/1Ph)

NEMA 4X thermoplastic alarm panel.

Hom & 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).

Hom is rated at 88 decibles at 10'.

18-00104115V9/110-0016 (230V)

Non-enclosed model.

6" magnetic bell with transformer.

Mount on standard utility box

(not included).

Operates with 10-0743 float

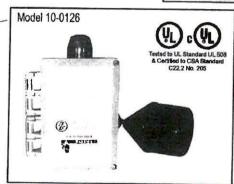
switch or mechanical alternator

(not included).

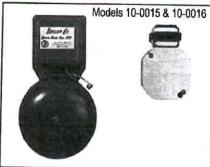
Note: All variable level float switches in this section are mechanically activated and do not contain mercury.











Second Contract **《教育》** \$ 1010 pp.5 AMNONPOS STOR SI CHORS September 1 42.8900 W Fundo Danies (Boro & all Contains Pracys 10 165 . 200 M . 6.90 60.30 633 JEWERANS MAL NA GREST OFTE 00138-39 Je 177. 18 10 - 10 House State Survey Create Deems 23 Sareft essen \$ 15.96.5 Section 3. Parient Surffe dient 386 8 3/3 CH 1/6 SIGRES 36, 7-3-8, 3-20-8 BREATH BETTTER BYBERT 10000 6.5 ... 63 77 TA TA 1625 1.68.00 F-14.05 September 1 ŗ, . .77 177 of results of source of so 3. 5114 A LOCAL TO STATE OF I, decode II, dece, deder eprotet fekt cour foat gedesche gebesche a comez add a pas dece of de get et al di gest-terej vece all course gest personi deculari erik der treu decentrate chela, ten, add determina, and contrate chela. IN THE PROCESSIONED CRIESS OF THE HIGH CHARM PRINGS AND INCOMPLETE INFOLLING NAMES AND PRINTS THAY HE WAS THAT HE PARTY THAT THE PRINTS AND SHADE NOT AND HAVE CHART HE ACCOUNTED WHITE AND HAVE CHART HE ACCOUNTED WHIT ATTEMPTS THAT IN ACCOUNTED WHIT ATTEMPTS THAT . NAME AND ASSESSED. orne 20-72 Allow Mary ment of Street age TARTER THURSDESS STREET, STREE LUC'S WEST SURVEYING CO.

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WEST SURVEYING CO.

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LOTS ON THE STATEMENT THIS DITTE



Wire Gauge Calculation Chart

- Indicates wire is insufficient to carry load "Information provided by Whelen Engineering, Inc.

Maximum Current Draw

	5 Amps	10 Amps	15 Amps	20 Amps	25 Amps	30 Amps	35 Amps	40 Amps	45 Amps	50 Amp
22 AWG	6	3								
20 AWG	9.5	5	3							
18 AWG	15	7.5	5	4	3					
16 AWG	24.5	12	8	6	5	4	3.5	3		
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	8	7.5	7	6
10 AWG	98	49	32.5	24.5	19.5	16.5	14	12.5	11	10
8 AWG	158	78	52	39	31	26	22.5	19.5	17.5	15.5
6 AWG	248.5	124	82.5	62	48.5	41.5	35.5	31	27.5	25
4 AWG	395	197.5	131	98.5	79	66	56.5	49.5	44	39.5
2 AWG	629	314	209	157	125.5	104.5	89.5	78.5	69.5	63

Maximum wire length - measured in feet.

	55 Amp	60 Amps	65 Amps	70 Amps	75 Amps	80 Amps	85 Amp	90 Amps	95 Amps	100 Amps
22 AWG										
20 AWG										
18 AWG										
16 AWG										
14 AVVG	3.5	3	3	3						
12 AWG	5.5	5	5	4.5	4	4	3.5	3.5	3.5	3
10 AVVG	9	8	7.5	7	8.5	6	6	5.5	5	5
8 AWG	14	13	12	11	10.5	10	9	8.5	8	8
6 AWG	22.5	20.5	19	17.5	16.5	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	36	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		
2	0 2575		

	Diamet		
Gauge	er		
7	0.1443		
8	0.1285		
9	0.1144		
10	0.1019		
11	0.0907		
12	0.0808		
13	0.0719		
	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		
200	00400		

	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	0.0040		



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.



Zoeller Corp.

Company Profile

Contact Info

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Products

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Pump Sizing Program

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Extended Warranty Order Info

Technical Support

Technical Briefs

Technical Briefs by Zoeller Professionals

The Do's and Don'ts of Submersible Pump Applications . . .

1. Do thoroughly read all installation material provided with the pump.

2. Do inspect pump for any visible damage caused by shipping. Contact dealer if pump appears to be damaged.

3. 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.

Do always connect to a separately processed.
 Don't ever cut, splice or damage the power cord.

8. Don't carry or lift the pump by its power cord. 9. Don't use an extension cord with a sewage pump.

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

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

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

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

Do consuit manufacturer for clarifications or questions.

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

16. 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.

17. 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.

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

19. 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.

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

"QUALITY PUMPS SINCE 1939"

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3649 Cane Run Road Louisville, KY 40211-1961 phone: 1-800-928-7867 fax: 1-502-774-3624 WWW.clarusenvironmental.com Your Peace of Mind is Our Top Priority®

CL0121 Updated 1111 Supersedes 0210

Junction Boxes



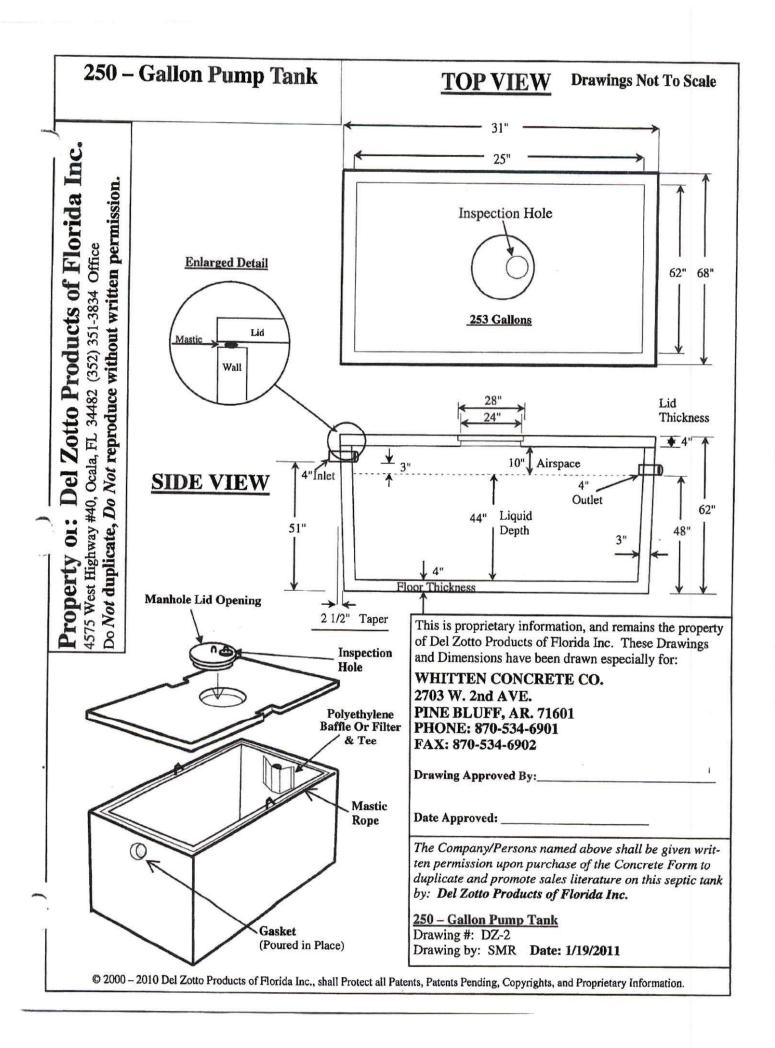
UL listed and CSA certified high impact, corrosion resistant, weatherproof thermoplastic enclosure with flexible PVC gasket and brass screws. Presassembled at the factory for convenience and ease of installation.







Junction Boxes CL0625							
Part Number	Description		4		-		
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				-		
10-1402	6"x6"x4" J-Box w/ 1.5" hub, 4 small cord grips, 1 plug		-				
10-1403	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						



Google Maps 34°51'33.1"N 92°03'16.8"W



Imagery @2022 Maxar Technologies, Pulaski Area GIS, State of Arkansas, U.S. Geological Survey, USDA/FPAC/GEO, Map data @2022 500 ft



34°51'33.1"N 92°03'16.8"W

34.859184, -92.054661











Directions

Save

Nearby

Send to phone

Share

0

Gray Township, AR

