



## **OSSF DEVELOPMENT APPLICATION CHECKLIST**

Staff will complete shaded items 119168 Date Received Initials Permit Number

instructions.	
Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application.  Checklist must accompany the completed application.	ation
OSSF Permit	
Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate	•
Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer	
Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall of a scaled design and all system specifications.	onsist
Required Permit Fee - See Attached Fee Schedule	
Copy of Recorded Deed	
Surface Application/Aerobic Treatment System	
Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public	
Signed Maintenance Contract with Effective Date as Issuance of License to Operate	
I affirm that I have provided all information required for my OSSF Development Application and that this applicationstitutes a completed OSSF Development Application.	ition
11/08/2025	

Signature of Applicant Date

**COMPLETE APPLICATION INCOMPLETE APPLICATION** (Missing Items Circled, Application Refeused) Check No. Receipt No.

Revised: September 2019





#### **ON-SITE SEWAGE FACILITY APPLICATION**

195 DAVID JONAS DR **NEW BRAUNFELS, TX 78132** (830) 608-2090

WWW CCFO ORG

Date Augu	ust 19, 2025		Permit Numb	per119	9168	
1. APPLICANT / AC	GENT INFORMATION					
Owner Name	MARIA L. GREEN LIVING TRUST	Agent Name _	GR	EG JOHNSO	ON, P.E.	
Mailing Address	5854 BURKLEY SPRINGS ST.	Agent Address _	ress 170 HOLLOW OAK			
City, State, Zip	SAN ANTONIO TEXAS 78233	City, State, Zip _				78132
Phone #	210-701-4680	Phone #	830-805-2778			
Email	msmlgren@yahoo.com	Email _	gregj	gregjohnsonpe@yahoo.com		
2. LOCATION	-					
Subdivision Name	EMERALD VALLEY	Uni	it	Lot 71A	Blo	ck
	stract Number			Acreage		
Address	490 JAYLEE	•	LAKE	State TX	Zip	78133
Number of B Indicate Sq F Indicate Sq F Non-Single F (Planning mate Type of Facil Offices, Fact Restaurants, Hotel, Motel,	edrooms  4  To of Living Area  2960  amily Residential  erials must show adequate land area for doubling lity  ories, Churches, Schools, Parks, Etc Indic  Lounges, Theaters - Indicate Number of Se  Hospital, Nursing Home - Indicate Number  r/RV Parks - Indicate Number of Spaces	the required land neede	pants			· · · · · · · · · · · · · · · · · · ·
	of Construction: \$ 600,000 the proposed OSSF located in the United S	(Structure Only)	ngineers (IIS	ACE) flower		mont?
	O (If yes, owner must provide approval from USACE for	•	•			
	Public Private Well Rainwate		ments within the	OUNCE HOWA	ye casem	cii()
4. SIGNATURE OF	OWNER					
By signing this applic	ation, I certify that:					

- The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities..
- I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Owner



#### ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 WWW.CCEO.ORG

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E
System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) SOLAR AIR SA600LP Absorption/Application Area (Sq Ft)
Gallons Per Day (As Per TCEQ Table III)
Is the property located over the Edwards Recharge Zone?  Yes No  (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved WPAP for the property?  Yes No  (if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
Is there at least one acre per single family dwelling as per 285.40(c)(1)?  Yes  No
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No (If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zone? 🛛 Yes 🔲 No
Is there an existing TCEQ approval CZP for the property?  Yes  No  (if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No (if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
Is this property within an incorporated city? ☐ Yes ☒ No
If yes, indicate the city:
FIRM #2585
By signing this application, I certify that:  - The information provided above is true and correct to the best of my knowledge.  - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable  August 20, 2025  Page 2 of 2

Bobbie Koepp

#### **AFFIDAVIT**

THE COUNTY OF COMAL STATE OF TEXAS

#### CERTIFICATION OF OSSPREQUIRING MAINTENANCE

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Pacilities (OSSP's), this document is filed in the Deed Records of County, Texas.

I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (TCBQ) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

П

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §225.91(12) will be installed on the property described as (insert legal description):

UNITATE ASSESSED TION	BLOCK	71A	_LOT	ENCERA	LD VALLEY	SUMDIVISION
if not in surdivision:	ACREACE			·		SURVEY
The property is owned by ( MARIA L GREEN, TRUSTE		full no	me <u>):</u>	MARIA	r Green Fiving	RUST,
This OSSF must be covered the initial two-year service residence shall either obta personally.	d by a continu policy, the own	ner of a	n aerobic tr	ontment system	for a single family	
Upon sale or transfer of the transferred to the buyer or obtained from the Comal C	new owner. A	copy of	the plane!	exmit for the C ing materials &	ISSF shall be or the OSSF can be	•
WITNESS BY HAND(S) O	NTHIS 15	DAY O	OCTO	BER	,20_25	
Owner(s) signature(s)  MARIA L.	Officer GREEN 58	 	Owner (	A L GREEN - TE ) Printel mass (s) BSCRIRED BE		
Notary Public Sign  GREG W. Motary Public, S  Connn. Expires  Notary ED 12	DHNSON tate of Texas 05-17-2028		Of Bo Co 10 PF	fficial Pubbie Ko omal Co /17/2025	unty, Texa 5 01:01:2 LA 1 Pa	nty Clerk as 1 PM

## Countryside Construction, Inc. 300 Chapman Parkway, Canyon Lake, TX. 78133 Phone: 830-899-2615

Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:
Name: Maria L. Green Address: 490 day Lee Sub-Div./County: Emerald VAILEY, Comal City: Permit #: TYPE: Drip Model #: 50LAR ALR-600 Serial #: Phone: « 210-701-4680
(X) Initial Two Year Service Agreement & Two Year Limited Warranty
Legal Description: LT 71 A, Comal County
The effective date of the initial maintenance contract shall be the date the License to Operate is issued.  This contract will be in effect <b>FROM</b> : LTO TO: and will provide the following:
<ul> <li>An inspection every (4) four months which will include: Servicing of the mechanical &amp; electrical components as necessary to ensure system is functioning as engineer designed, pulling and cleaning the aerator shaft, cleaning compressor air filters, check chlorine, conduct solids test to determine if system should be pumped, back flushing tubing for drip irrigation fields and checking sprinklers on above ground systems.</li> </ul>
<ol> <li>The property owner is responsible for "purchasing and keeping chlorine" in the chlorinator, (if applicable).</li> <li>If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.</li> <li>If any improper operation is observed (which cannot be corrected at that time) the property owner will be</li> </ol>
notified immediately of the conditions and the estimated cost.  ANY PARTS, WARRANTY OR NON-WARRANTY, FREIGHT CHARGES, LABOR OR SERVICE CALLS NOT PAID IN FULL AT THE END OF (30) DAYS SHALL REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND AUTHORIZES CONTRACTOR TO REMOVE AND REPOSSESS ANY PARTS INSTALLED. CLIENT FURTHER AGREES TO PAY ANY LABOR COST OF THE INSTALLATION AND REASONABLE COST OF REMOVAL OF SAID PARTS.
<ul> <li>THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.</li> <li>The response time to a complaint by the property owner regarding operation of the system, shall be within 48 hours</li> </ul>
from the time of notification.  Countryside Construction, Inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTIED PARTS" EXCHANGED DURING WARRANTY. All other components will be according to manufacturer's warranties.
Important: As Countryside Construction, Inc. <u>cannot control</u> what or how much effluent goes into this septic system, we <u>cannot warranty</u> how the system will function. Refer to manufacturers or installer's instructions, for suggestions on septic operation. If necessary, between inspections, it is the property owner's responsibility to clean the micron filters on drip irrigation systems. This service agreement <u>does not</u> cover the cost of "service calls, labor or materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.  This contract <u>does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:</u>
Violations of the warranty also include: disconnecting the alarm, restricting ventilation to the aerator, overloading the system above its rated capacity; or flooding by external means. Rodent, insect or fire ant damage or any other form of unusual abuse is a violation. A renewal service contract should be activated (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.
Serviced by: COUNTRYSIDE CONSTRUCTION, INC.  Robert Keltner – Installer Licensee #OS0028152 Maintenance Provider Licensee #MP0002446
Property Owner Signature Print Name Date
Robert Keltner    10 - 30 - 25

# ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	August 19, 2025	
Site Location:	EMERALD V	ALLEY, LOT 71A
Proposed Excavation Depth:	N/A	
Locations of soil boring For subsurface disposal,	ions must be performed on the site, at oper dug pits must be shown on the site drawn in the site drawn that the surface disposal, the surface hor	depth of at least two feet below the

The 11 11 11	11 1 111 .10	ny restrictive features on the form. Indicate depths where features ap	
I lacertha agen coll	horizon and identify	ny restrictive teatiires on the torm. Indicate denths where teatiires an	INA9r
Describe cacii son	i iiui izuii aiiu iuuliii y	illy restrictive realures our the rollin. Indicate depths where realures ap	Dour.

SOI	L BORING	NUMBER SURI	FACE EVALUAT	ION			
	Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 1 2	8"	ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 8"	BROWN
3							
5							

so	IL BORING	NUMBER SURI	FACE EVALUAT	ION			
	Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0		SAME		AS		ABOVE	
2							
3							
4							
5							

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

Greg W. Johnson, P.E. 67587-F2585, S.E. 11561

Date

#### OSSF SOIL EVALUATION REPORT INFORMATION

Date: August 20, 2025		<del>-</del>
Applicant Information:		
	Site Evaluator Information:	
Name: MARIA L. GREEN LIVING TRUST	Name: Greg W. Johnson, P.E.,	R.S, S.E. 11561
Address: 5854 BURKLEY SPRINGS STREET	Address: 170 Hollow Oak	
City: SAN ANTONIO State: TEXAS	City: New Braunfels	State: Texas
Zip Code: 78233 Phone: (210) 701-4680	Zip Code: 78132 Phone &	Fax (830)905-2778
Property Location:  Lot 71A Unit Blk Subd. EMERALD VALLEY  Street Address: 490 JAYLEE  City: CANYON LAKE Zip Code: 78133  Additional Info.:	Company:	
114411111141 1111111	Zip Code: I	Phone
Topography: Slope within proposed disposal area:	YES NO X	

I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (EFFECTIVE DECEMBER 29, 2016).

GREG W. JOHNSON, P.E. 67587 - S.E. 11561

8/20/25 DATE



FIRM #2585

# AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR: MARIA L. GREEN LIVING TRUST 5854 BURKLEY SPRINGS ST. SAN ANTONIO, TX 78233

#### SITE DESCRIPTION:

Located in Emerald Valley, Lot 71A, at 490 Jaylee, the septic system will serve a four bedroom residence (2960 sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

#### **PROPOSED SYSTEM:**

A 3 or 4-inch SCH-40 pipe discharges from the residence into a Solar Air SA600LP 600gpd aerobic treatment plant containing a 376 gal. pretreatment chamber and a 778 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP submersible well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 300 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to 2400 sf drip tubing field with Netifim Bioline drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 40psi installed in the pump tank on the manifold to the field will maintain pressure at 40 psi. A 1" SCH-40 return line is installed to continuously flush the system by throttling a 1" ball valve to the pump tank. Solids caught in the Arkal disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 6" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). A minimum of 12" soil required between rock and drip tubing. The field area will be covered with Curlex erosion control blankets and heavily seeded or just sodded with grass prior to system startup. Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2023). This includes access limitation (<65lbs lid or hardware secured lid), inspection and cleanout ports shall have risers over the port openings which extend to a minimum of two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.

#### **DESIGN SPECIFICATIONS:**

Daily waste flow: 300 GPD Table III Pretreatment tank size: 376 Gal

Plant Size: Solar Air SA-600LP 600gpd ATU (TCEQ Approved)

Pump tank size: 778Gal

Reserve capacity after High Level: 100 Gal (>1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf. (Actual 2400 sf.) Total linear feet drip tubing: 1200' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 600 emitters @ .61 gph @ 30 psi = 6.1gpm

Pump: 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent

#### MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$ 

 $MSV = 2(3.14159((.55/12)^{2})/4)*7.48*60$ 

MSV = 1.5 gpm PER LINE \* 4 LINES = 6 GPM MIN FLOW RATE

#### IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$ 

MSV = 2(3.14159((1.049/12)†2)/4)\*7.48\*60

MSV = 5.4 GPM

#### **PIPE AND FITTINGS:**

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

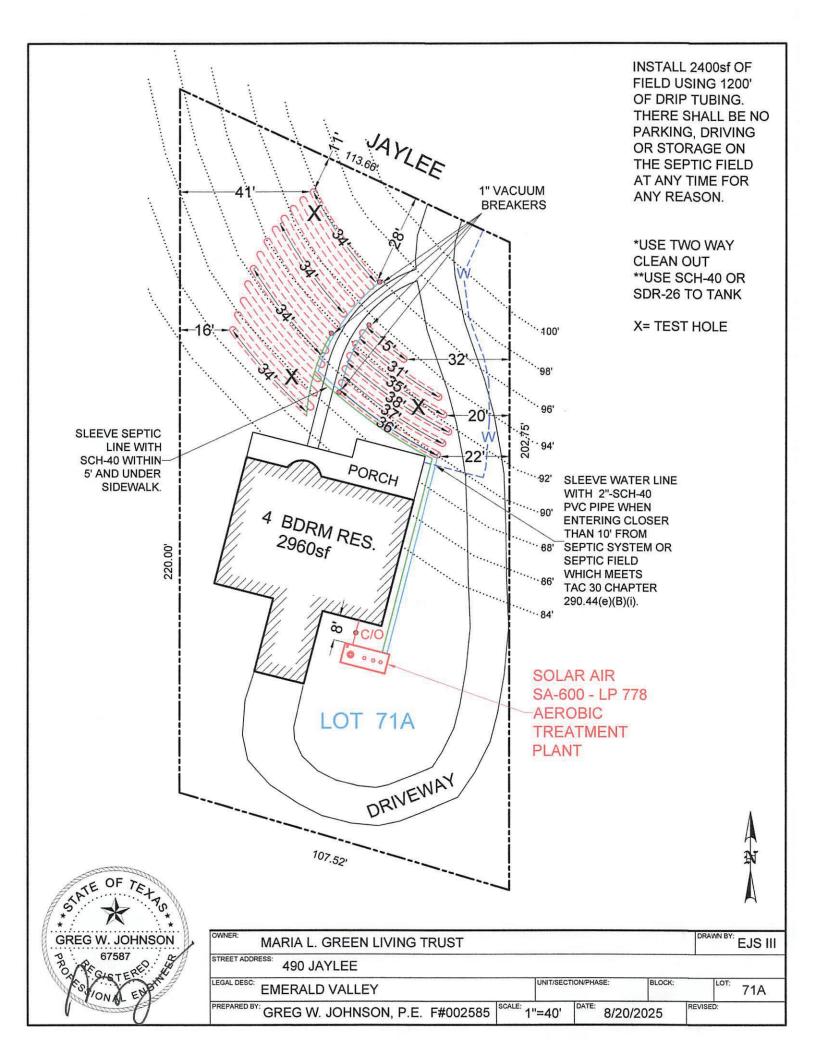
Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective September 1, 2023)

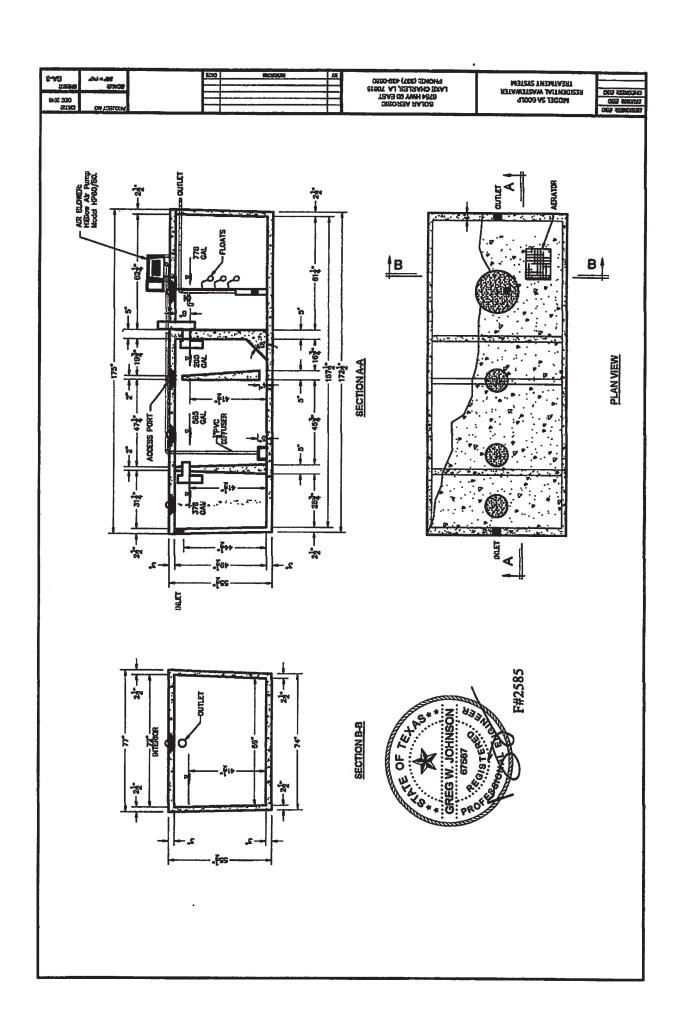
Greg W. Johnson P.E. No. 67587 / F-2585

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778





## **TANK NOTES:**

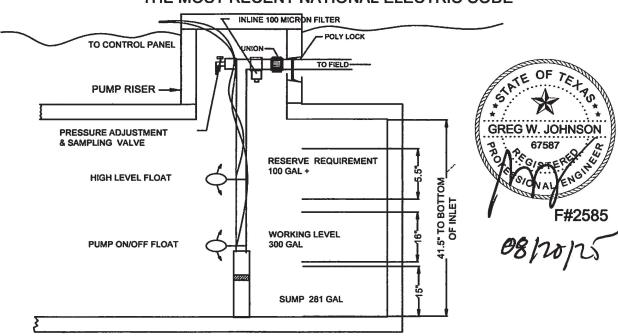
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

# ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE



TYPICAL PUMP TANK CONFIGURATION SOLAR-AIR SA-600 LP 778 GAL PUMP TANK

# Arkal 1" Super Filter

## Catalog No. 1102 0\_\_\_

#### Features

- A "T" shaped filter with two 1" male threads.
- \* A "T" volume filter for in-line installation on 1" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- · Manufactured entirely from fiber reinforced plastic.
- · A cylindrical column of grooved discs constitutes the filter element.
- Spring keeps the discs compressed.
- Screw-on filter cover.
- Filter discs are available in various filtration grades.



#### Technical Data

	1" BSPT (male)	1" NPT (male)
Inlet/outlet diameter	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m <sup>3</sup> /h (1.7 l/sec)	35 gpm
General filtration area	500 cm <sup>2</sup>	77.5 in <sup>2</sup>
Filtration volume	600 cm <sup>3</sup>	37 in <sup>3</sup>
Filter length L	340 mm	13 13/32"
Filter width W	130 mm	5 3/32"
Distance between end connections A	158 mm	6 7/32"
Weight	1.420 kg	3.13 lbs.
Maximum temperature	70° C	158 °F
pH	5-11	5-11





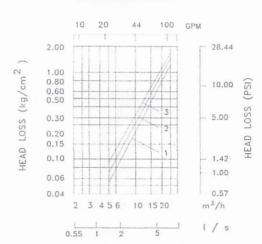
#### Filtration Grades

Blue (400 micron / 40 mesh)
Yellow (200 micron / 80 mesh)
Red (130 micron / 120 mesh)

Black (100 micron /140 mesh)

Green (55 micron)

#### Head Loss Chart





## PMR-MF

#### PRESSURE-MASTER REGULATOR - MEDIUM FLOW

#### Specifications

The pressure regulator shall be capable of operating at a constant, factory preset, non-adjustable outlet pressure of 6, 10, 12, 15, 20, 25, 30, 35, 40, 50, or 60 PSI (0.41, 0.69, 0.83, 1.03, 1.38, 1.72, 2.07, 2.41, 2.76, 3.45, or 4.14 bar) with a flow range between:

4 - 16 GPM (909 - 3634 L/hr) for 6 - 10 PSI models or

2 - 20 GPM (454 - 4542 L/hr) for 12 - 60 PSI models.

The pressure regulator shall maintain the nominal pressure at a minimum of 5 PSI (0.34 bar) above model inlet pressure and a maximum of 80 PSI (5.52 bar) above nominal model pressure\*. Refer to the PRU performance curve to establish specific outlet pressures based on relative inlet pressure and flow rate. Always install downstream from all shut off valves. Recommended for outdoor use only. Not NSF certified.

All pressure regulator models shall be equipped with one of these inlet-x-outlet configurations:

3/4-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

1-inch Female British Standard Pipe Thread (FBSPT) 1-inch Female British Standard Pipe Thread (FBSPT)

34-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

The upper housing, lower housing, and internal molded parts shall be of engineering-grade thermoplastics with internal elastomeric seals and a reinforced elastomeric diaphragm. Regulation shall be accomplished by a fixed stainless steel compression spring, which shall be enclosed in a chamber isolated from the normal water passage.

Outlet pressure and flow shall be clearly marked on each regulator.

The pressure regulator shall carry a two-year manufacturer's warranty on materials, workmanship, and performance. Each pressure regulator shall be water tested for accuracy before departing the manufacturing facility.

The pressure regulator shall be manufactured by Senninger Irrigation in Clermont, Florida. Senninger is a Hunter Industries Company.

#### Physical

3/4" FNPT x 3/4" FNPT model (shown on right)

Overall Length

5.2 inches (13.1 cm)

Overall Width

2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

1" FBSPT x 1" FBSPT model

Overall Length

5.8 inches (14.6 cm)

Overall Width

2.5 inches (6.4 cm)



<sup>\*</sup> Please consult factory for applications outside of recommended guidelines.



## **PMR-MF**

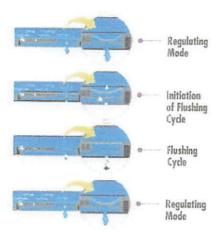
## PRESSURE-MASTER REGULATOR - MEDIUM FLOW

#### **Model Numbers**

Model #	Flow Range	Preset Operating Pressure	Maximum Inlet Pressure
PMR-6 MF	4 - 16 GPM	6 PSI	80 psi
	(909 - 3634 L/hr)	(0.41 bar)	(5.51 bar)
PMR-10 MF	4 - 16 GPM	10 PSI .	90 psi
	(909 - 3634 L/hr)	(0.69 bar)	(6.20 bar)
PMR-12 MF	2 - 20 GPM	12 PSI	90 psi
	(454 - 4542 L/hr)	(0.83 bar)	(6.20 bar)
PMR-15 MF	2 - 20 GPM	15 PSI	95 psi
	(454 - 4542 L/hr)	(1.03 bar)	(6.55 bar)
PMR-20 MF	2 - 20 GPM	20 PSI	100 psi
	(454 - 4542 L/hr)	(1.38 bar)	(6.89 bar)
PMR-25 MF	2 - 20 GPM	25 PSI	105 psi
	(454 - 4542 L/hr)	(1.72 bar)	(7.24 bar)
PMR-30 MF	2 - 20 GPM	30 PSI	110 psi
	(454 - 4542 L/hr)	(2.07 bar)	(7.58 bar)
PMR-35 MF	2 - 20 GPM	35 PSI	115 psi
	(454 - 4542 L/hr)	(2.41 bar)	(7.93 bar)
PMR-40 MF	2 - 20 GPM	40 PSI	120 psi
	(454 - 4542 L/hr)	(2.76 bar)	(8.27 bar)
PMR-50 MF	2 - 20 GPM	50 PSI	130 psi
	(454 - 4542 L/hr)	(3.45 bar)	(8.96 bar)
PMR-60 MF	2 - 20 GPM	60 PSI	140 psi
	(454 - 4542 L/hr)	(4.14 bar)	(9.65 bar)

# Bioline Dripperline

#### Pressure Compensating Dripperline for Wastewater



BioLine's Self-Cleaning. Pressure Compensating Dripper is a fully selfcontained unit molded to the interior wall of the dripper tubing.

As shown at left, BioLine is continuously self-cleaning during operation, not just at the beginning and end of a cycle. The result is dependable, clog free operation, year after year.



#### **Product Advantages**

#### The Proven Performer

- . Tens of millions of feet used in wastewater today.
- · Bioline is permitted in every state allowing drip disposal.
- . Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- · Proven track record of success for many years of hard use in wastewater applications.

#### Quality Manufacturing with Specifications Designed to Meet Your Needs

- · Pressure compensating drippers assure the highest application uniformity even on sloped or rolling
- · Excellent uniformity with runs of 400 feet or more reducing installation costs.
- Highest quality-control standards in the industry: Cv of 0.25 (coefficient of manufacturer's variation).
- · A selection of flows and spacings to satisfy the designer's demand for almost any application rate.

#### Long-Term Reliability

- · Protection against plugging:
  - Dripper inlet raised 0.27" above wall of tubing to prevent sediment from entering dripper.
  - Drippers impregnated with Vinyzene to prevent buildup of microbial slime.
  - Unique self-flushing mechanism passes small particles before they can build up.

## Crass Section of Bioline Dripperline



- · A physical barrier on each BioLine dripper helps prevent root intrusion.
- · Protection never wears out never depletes releases nothing to the environment.
- · Working reliably for up to 15 years in subsurface wastewater installations.
- · Additional security of chemical root inhibition with Techfilter supplies Trifluralin to the entire system, effectively inhibiting root growth to the dripper outlets.



#### Applications

- For domestic strength wastewater disposal.
- Installed following a treatment process.
- · Can be successfully used on straight septic effluent with proper design, filtration and operation.
- Suitable for reuse applications using municipally treated effluent designated for irrigation water.

#### **Specifications**

Wall thickness (mil): 45\*

Nominal flow rates (GPH): .4, .6, .9\*

Common spacings: 12", 18", 24"\*

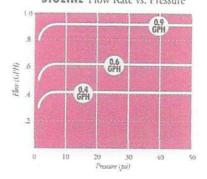
Recommended filtration: 120 mesh

Inside diameter: .570\*

Color: Purple tubing indicates non-potable source

\*Additional flows, spacings, and pipe sizes available by request. Please contact Netafim USA Customer Service for details.

#### **BIOLINE** Flow Rate vs. Pressure





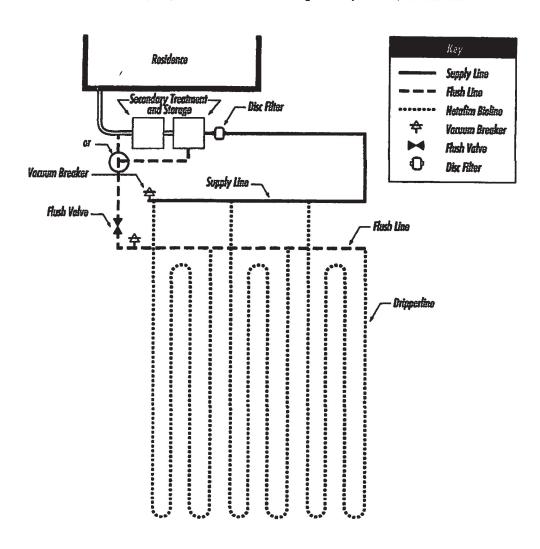
NETAFINI USA 5470 E. Home Ave. . Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

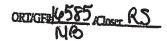
## **SAMPLE DESIGNS**

#### **SINGLE TRENCH LAYOUT**

Rectangular field with supply and flush manifold on same side and in same trench;

- · Locate supply and flush manifold in same trench
- · Dripperlines are looped at the end opposite the supply and flush manifolds
- The longest Bioline length should not exceed 400 ft. Drip fields 200 ft. in length might loop the Bioline once; drip dispersal fields under 100 ft. might be looped twice, as illustrated





NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

### **GENERAL WARRANTY DEED**

THE STATE OF TEXAS

}

KNOW ALL MEN BY THESE PRESENTS:

**COUNTY OF COMAL** 

8

THAT GILBERT LOWE, a single man, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by MARIA L. GREEN LIVING TRUST, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

HAS GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto the said Grantee, the following described property, to-wit:

Lot 71-A, EMERALD VALLEY SUBDIVISION, a subdivision in Comal County, Texas, according to the Map and Plat thereof recorded in Volume 8, Page(s) 146, of the Map and Plat Records of Comal County, Texas.

This conveyance is made subject to, all and singular, the restrictions, conditions, easements and covenants, if any, applicable to and enforceable against the above described property as reflected by the records of the County Clerk of Comal County, Texas.

Taxes for the current year have been prorated and are thereafter assumed by Grantee.

TO HAVE AND TO HOLD the above described premises, together with, all and singular, the rights and appurtenances thereto in anywise belonging unto the said Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever.

Grantor does hereby bind Grantor, Grantor's heirs, executors, administrators, and successors to warrant and forever defend, all and singular, the said premises unto the said

Grantee, Grantee's heirs, executors, administrators, successors, and assigns against any person whomsoever claiming or to claim the same or any part thereof.

DATED this the day of July, 2024.

GILBERT LOWE, a single mai

CANADA
PROVINCE OF A SKAP Church

This instrument was acknowledged before me on this the 2 day of July, 2024, by GILBERT LOWE, a single man.

Notary Public in and for the Province of

**GRANTEE'S MAILING ADDRESS:** 

Box 61 5854 Burkley Springs

January San Antonio, 3012, deeds TX 78233

3012.deeds Old Republic Title Co (RS) GF #16585NB Notary Public ny application price feld 20, 200.

> WITNESS AS TO SIGNATURE ONLY— NO ADVICE SOUGHT OR GIVEN

A P

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
07/08/2024 01:15:27 PM
TERRI 2 Pages(s)
202406020340



