## **Preliminary Field Check For Drip Systems**

195 David Jonas Dr, New Braunfels, Texas 78132 (830)608-2090

Address:	 		 
Legal Description:			

Dear Property Owner & Agent,

Thank you for your submission. We have reviewed the planning materials for the referenced permit application, and unfortunately, they are insufficient. To proceed with processing this permit, we require the following:

## 119098.pdf Markup Summary 11-5-2025

### Group (1)

Control Contro

Subject: Group Page Label: 3

Checkmark: Unchecked Author: Brandon Mark Olvera Date: 11/5/2025 3:18:00 PM Our office will be conducting a site visit on 11-07-2028.



Instructions:

**OSSF Permit** 

Copy of Recorded Deed

Check No.

Surface Application/Aerobic Treatment System

constitutes a completed OSSF Development Application.

Signature of Applicant

**COMPLETE APPLICATION** 

Receipt No.

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 application



# **OSSF DEVELOPMENT APPLICATION**

**CHECKLIST** Staff will complete shaded items 119098 Date Received Initials Permit Number 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. 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 consist of a scaled design and all system specifications. Required Permit Fee - See Attached Fee Schedule Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public

10/13/2025

Date

**INCOMPLETE APPLICATION** (Missing Items Circled, Application Refeused)

Revised: September 2019





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

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

WWW CCEO ORG

	y 30, 2025 GENT INFORMATION		Permit Nu	ımber	119	098	
Owner Name	JAMES JONES	Agent Name	(	GREG JO	HNSO	N. P.E.	
Mailing Address	425 MT. LOOKOUT DRIVE	Agent Address					
City, State, Zip	CANYON LAKE TEXAS 78133		NEW				32
Phone #	830-624-9230	Phone #			805-27		
Email	jsjones4369@gmail.com	- Email	gr		***************************************	hoo.com	
2. LOCATION		_			1 07		
Subdivision Name	MT LOOKOUT	Un	it 1	Lot	IA	Block	,
Survey Name / Abs	tract Number				reage	_ 5,00%_	<u> </u>
	425 MT. LOOKOUT DRIVE		LAKE			Zip 7	R122
B. TYPE OF DEVEL			DARD	0.6.6	17	Zip	0133
Single Family							
	truction (House, Mobile, RV, Etc.)	HOUSE					
Number of Be	V	HOUSE					
<i></i>	t of Living Area1700						
_	amily Residential						
	rials must show adequate land area for doublin		d for treatme	ent units a	ind disp	osal area)	
	ty						
Offices, Facto	ories, Churches, Schools, Parks, Etc Ind	icate Number Of Occup	ants	-			
Restaurants,	Lounges, Theaters - Indicate Number of S	eats					
Hotel, Motel,	Hospital, Nursing Home - Indicate Number	r of Beds					
Travel Trailer	/RV Parks - Indicate Number of Spaces						
Miscellaneous	5						
Yes No	he proposed OSSF located in the United S (If yes, owner must provide approval from USACE)  Public Private Well Rainwate	for proposed OSSF improve					t?
By signing this applicat							
The completed applic	cation and all additional information submitted came the property owner or I possess the appropr	does not contain any false riate land rights necessary	information to make the	and does permitted	not con improv	ceal any m	aterial said
I understand that a po	by given to the permitting authority and designand inspection of private sewage facilities ermit of authorization to construct will not be is:						
by the Comai County	Flood Damage Prevention Order. It to the online posting/public release of my e-m	ail address associated wi	h thin nami				equile
	LAN	9 - 30 Date	-202	3			
Signature of Owner	er //	Date			-	Pa	ae 1 oi



## 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) NUWATER B-550-PC Absorption/Application Area (Sq Ft)
Gallons Per Day (As Per TCEQ Table III)240  (Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)
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 Our office will be conducting a sit visit on 11-07-2028.
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: GREG W. JOHNSON GREG W. JOHN
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
Signature of Designer / Page 2 of 2

### **AFFIDAVIT**

# THE COUNTY OF COMAL STATE OF TEXAS

## CERTIFICATION OF OSSF REQUIRING MAINTENANCE

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities (OSSFs), this document is filed in the Deed Records of Comal County, Texas.

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (TCEQ) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility 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 but the appreciate OSSF ware installed. by the commission that the appropriate OSSF was installed.

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as (insert legal description):

1 UNITY PHASE/SECTION _	1 BLOCK 1A	_rot	MT LOOKOUT	SUBDIVISION
IF NOT IN SUBDIVISION:	ACREAGE	· ·		SURVEY
The property is owned	by (insert owner's full as	<b>m</b> e) <u>:</u>	JAMES JONES	
the initial two-year serv	vice policy, the owner of a	a acrobic treat	tract for the first two years. After ment system for a single family days or maintain the system	
transferred to the buye	of the above-described pro r or new owner. A copy o al County Engineer's Offic	f the planning	mit for the OSSF shall be materials for the OSSF can be	
WITNESS BY HAND(S	ON THIS DAY O	1 Octo	Der 20 25	
Owner(s) signature(s)	John	JAMES N	ONES visted same (s)	- -
James Jone	SWORN 1	**	CRIBED BEFORE ME ON THIS_	l_DAY OF
October &	20 <u>25</u>			
Netary Public Si	gnature		Filed and Recorde Official Public Rec	_
State of iD# 128	PERCELL Public 1 Texas 07634-8 ires 10/13/2025		Bobbie Koepp, Co Comal County, Te: 10/09/2025 01:21: PRISCILLA 1 P	unty Clerk xas 53 PM

PRISCILLA 1 Pages(s) 202506032507



Maintenance Service Provider 15188 FM 306 Canyon Lake, TX 78133 Office (830)964-2365



MT LOOKOUT UNIT 1, BLOCK 1, LOT 1A

SERVICE ADDRESS INSTALLER TERM
425 MT LOOKOUT DR, CANYON LAKE, TX 78133 TOM HAMPTON 2 year

## Routine Maintenance and Inspection Agreement

This Work for Hire Agreement (hereinafter referred to as this "Agreement") is entered into by and between JAMES JONES; (referred to as "Client") and Aerobic Services of South Texas (Thomas W. Hampton MP349) (hereinafter referred to as "Contractor") located at 15188 FM 306 Canyon Lake, Texas 78133 (830) 964-2365. By this Agreement the Contractor agrees to render professional service, as described herein, and the Client agrees to fulfill the terms of this Agreement as described herein. This contract will provide for all required inspections, testing and service for your Aerobic Treatment System. The policy will include the following:

- 1. 3 inspections a year/services calls (at least one every 4 months), for a total of 6 over the two year period including inspection, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting the control panel, air pumps, air filters, diffuser operation. Any alarm situation affecting the proper function of the Aerobic process will be addressed within a 48-hour time frame. Repair work on non-warranty parts will include price for parts & labor. The prices will be quoted before work is performed.
- 2. An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow and examination for odors. A test for chlorine residual and pH will be taken and reported as necessary.
- 3. If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified immediately in writing of the conditions and estimated date of correction.
- 4. The Property Owner is responsible for the chlorine; it must be filled before or during the service visit.
- 5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEQ or any other authorized regulatory agency in your jurisdiction will be covered by this policy. BOD and TSS testing is covered by this contract.

The Property Owner Manual must be strictly followed or warranties are subject to invalidation. Pumping of sludge build-up is not covered by this policy and will result in additional charges.

#### ACCESS BY CONTRACTOR

The Contractor or anyone authorized by the Contractor may enter the property at reasonable times without prior notice for the purpose of the above described Services. The contractor may access the System components including the tanks by means of excavation for the purpose of evaluations if necessary. Soil Is to be replaced with the excavated material as best as possible.

#### Termination of Agreement

Either party may terminate this agreement within ten days with a written notice in the event of substantial failure to perform in accordance with its terms by the other party without fault of the terminating party. If this Agreement is so terminated, the Contractor will immediately notify the appropriate health authority of the termination.

Limit of Liability

In no event shall the Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract tort or any other theory. In no event shall the Contractor's liability for direct damages exceed the price for the services described in this Agreement.

Dispute Resolution

If a dispute between the Client and the Contractor arises that cannot be settled in good faith negotiations then the parties shall choose a mutually acceptable arbitrator and shall share the cost of the arbitration services equally.

Entire Agreement

This Agreement contains the entire agreement of the parties, and there are no other promises or conditions in any other agreement either oral or written.

Severability

If any provision of this Agreement shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of this agreement is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.

Property Owner

Name

JAMES JONES

Email

jsjones4369@gmail.com

Service Address 425 MT LOOKOUT DRIVE CANYON LAKE, TX 78133

Phone

830-624-9230

SERVICE PROVIDER

Aerobic Services of South Texas LLC.

15188 FM 306 Canyon Lake, TX 786133

(830) 964-2365

5/m-2. 2. 2/m/s-

Signature of Service Provider and License # [Thomas Hampton, OS0024597 / MP0000349]



EFFECTIVE DATE \_\_\_\_\_EXPIRED DATE

<sup>\*</sup>The effective date of this initial maintenance contract shall be the date license to operate is issued.

# ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	July 31, 2025
Site Location:	MOUNT LOOKOUT, UNIT 1, BLOCK 1, LOT 1A
Proposed Excavation Depth:	N/A
Locations of soil boring	ations must be performed on the site, at opposite ends of the proposed disposal area.  For dug pits must be shown on the site drawing.  Fooil evaluations must be performed to a depth of at least two feet below the

proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
2" 1	ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 2"	BROWN STONY
3						
4						
5						

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	SAME		AS		ABOVE	
2						
3			:			
4						
<sub>5</sub>						

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

Greg W. Johnson, P.E. 57587-F2585, S.E. 11561

07/31/25

### OSSF SOIL EVALUATION REPORT INFORMATION

Applicant Information:		
**	Site Evaluator Infor	mation:
Name: JAMES JONES	Name: Greg W. Johns	son, P.E., R.S, S.E. 11561
Address: 425 MOUNT LOOKOUT DRIVE	Address: 170 Hollov	
City: CANYON LAKE State: TEXAS	City: New Braunfel	s State: Texas
Zip Code: 78133 Phone: (830) 624-9230		Phone & Fax (830)905-2778
Property Location:  Lot 1A Unit 1 Blk 1 Subd. MOUNT LOOKOU  Street Address: 425 MOUNT LOOKOUT DRIVE	Company:	
City: CANYON LAKE Zip Code: 7813	Address:	
Additional Info.:	City:	State:
	Zip Code:	Phone
Presence of 100 yr. Flood Zone: Existing or proposed water well in nearby area. Presence of adjacent ponds, streams, water impoundments Presence of upper water shed Organized sewage service available to lot	YES NO_X YES NO_X YES NO_X YES NO_X YES NO_X 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

Date: August 01, 2025

OS OI W



FIRM #2585

# AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR: JAMES JONES 425 MT LOOKOUT DR CANYON LAKE, TX 78133

### **SITE DESCRIPTION:**

Located in Mt Lookout, Unit 1, Block 1, Lot 1A, at 425 Mt Lookout Drive, the proposed system will serve a three bedroom residence (1700sf.) 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-inch SCH-40 pipe discharges from the residence into a NuWater B-550 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768gallon pump chamber containing a submersible (FPS Series 0.5HP) 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 240 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 a 1736 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. Solids caught in the disc filter are continuously flushed each cycle back to the pump 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 surface rock removed and built up with 10" 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 twelve inches of soil required between drip tubing and rock/tank.) 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: 240 GPD Table III Pretreatment tank size: 353 Gal

Plant Size: NuWater B550 600gpd (TCEQ Approved)

Pump tank size: 768 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 1736 sf.) Total linear feet drip tubing: 868' *Netifim Bioline* drip tubing .61 GPH Pump requirement: 434 emitters @ .61 gph @ 30 psi = 4.412gpm

Pump Requirement (cont.): FPS Series 20FE05P4-2W115 0.5HP submersible well pump

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

 $MSV = 2(3.14159((.55/12)\uparrow 2)/4)*7.48*60$ 

MSV = 1.5 gpm PER LINE \* 3 LINES = 4.5 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

No. 67587 / F-2585

08/01/25

170 Hollow Oak

New Braunfels, Texas 78132

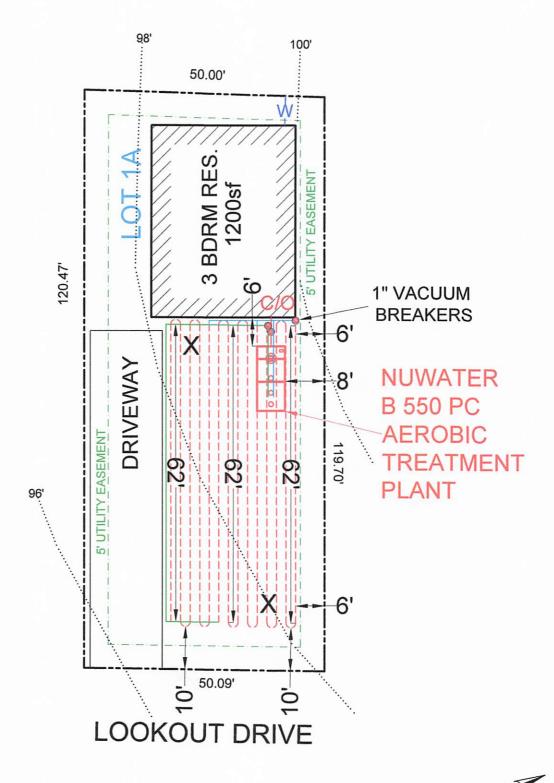
830/905-2778



INSTALL 1736sf OF FIELD USING 868' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

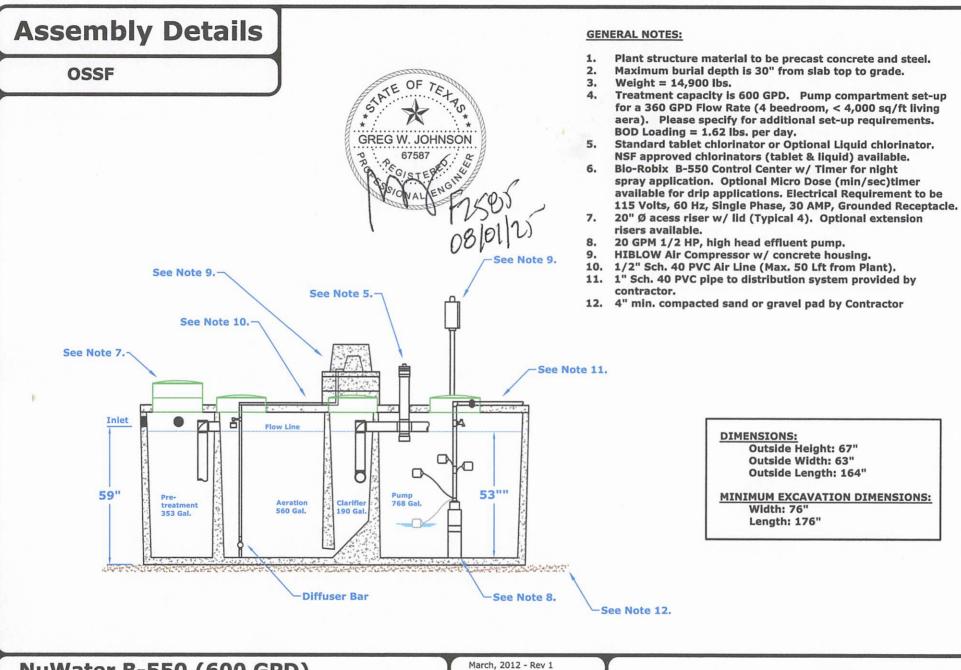
\*USE TWO WAY CLEAN OUT \*\*USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE





OWNER: JAMES JONES				DRAWN BY	EJS III
STREET ADDRESS: 425 MOUNT LOOKOUT DRIVE					
LEGAL DESC: MOUNT LOOKOUT	UNIT/SECT	ION/PHASE:	BLOCK:	1 LOT:	1A
PREPARED BY: GREG W. JOHNSON, P.E. F#002585 SCALE: 1	"=20'	B/1/20	25	REVISED: 9	/4/2025



NuWater B-550 (600 GPD)
Aerobic Treatment Plant (Assembled)

Model: B-550-PC-400PT

March, 2012 - Rev 1 By: A.S.

ву: А.S.

All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B550-3



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051

## **TANK NOTES:**

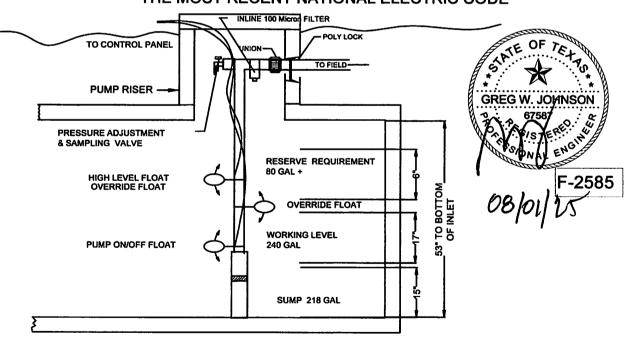
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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 NU-WATER 550PC -400PT 768 GAL PUMP TANK

# **Arkal 1" Super Filter**

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

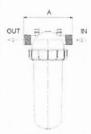
#### **Features**

- · 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	
West of the second seco	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**

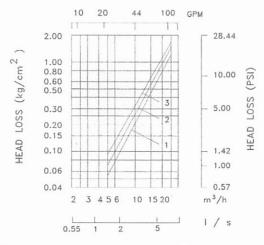
Blue (400 micron / 40 mesh) Yellow (200 micron / 80 mesh)

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:

#### Inlet

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)

#### Outlet

3/4-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

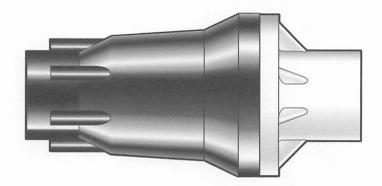
1" FBSPT x 1" FBSPT model

Overall Length

5.8 inches (14.6 cm)

Overall Width

2.5 inches (6.4 cm)



Please consult factory for applications outside of recommended guidelines.



## PMR-MF

## PRESSURE-MASTER REGULATOR - MEDIUM FLOW

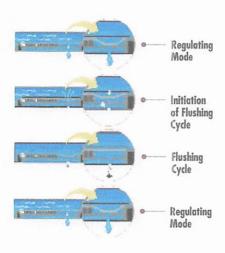
### **Model Numbers**

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 terrain.
- 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.

#### Cross Section of Bioline Dripperline



ECHFILTER

#### Root Safe

- · 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"\*

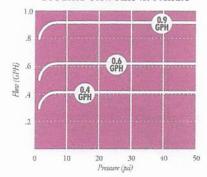
Recommended filtration: 120 mesh

Inside diameter: .570\*

Color: Purple tubing indicates non-potable

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

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





**NETAFIM USA** 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800

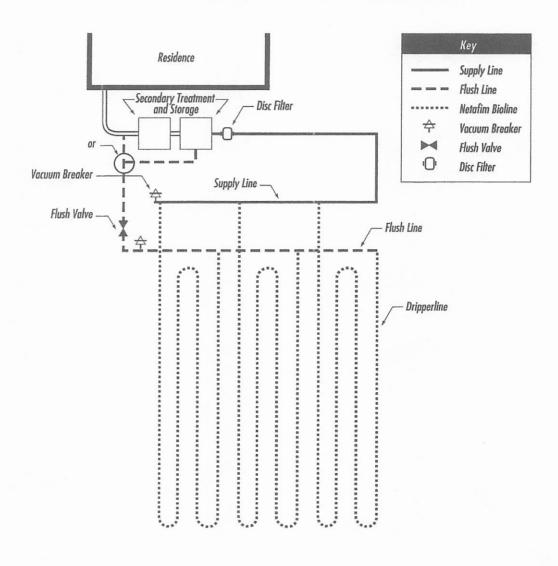
FAX 800.695.4753 www.netafimusa.com

## **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



#### STC GF# 2646728 MW

#### General Warranty Deed

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.

Date: June 17, 2025

Grantor: David Grossman and spouse, Michelle Grossman

Grantee: James Jones

1885 FM 2673, PMB 48 Canyon Lake, Texas 78133

Consideration: Ten and No/100ths (\$10.00) Dollars, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged and confessed.

Property (including any improvements): Lot 1A, Block 1, MT. LOOKOUT SUBDIVISION, UNIT ONE, situated in Comal County, Texas, according to the plat thereof recorded in Volume 3, Page 2, Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None.

Exceptions to Conveyance and Warranty: Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing restrictions, reservations, covenants, conditions, oil and gas leases, mineral interests, and water interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property; validly existing rights of adjoining owners in any walls and fences situated on a common boundary; any discrepancies, conflicts, or shortages in area or boundary lines; any encroachments or overlapping of improvements; and taxes for the current year, which Grantee assumes and agrees to pay, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any

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part thereof, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

When the context requires, singular nouns and pronouns include the plural. Additionally, this instrument may be executed in multiple counterparts and by different parties in separate counterparts, which, when taken together, shall constitute one original instrument.

David Grossman			
David Grossman			
Michele Grossman			
Michelle Grossman			
THE STATE OF Ohio	Ş		
COUNTY OF Summit	Š		
video communication on this 17 of			teractive two-way audio and This notarial act was an online
e My	RESSA SPEIGHT Notary Public State of Ohlo y Comm. Expires Aarch 24, 2028	43	>
		Notary Public, Stat	
mpleted via Remote Online N	lotarization usir	ng 2 way Audio/V	ideo technology.

THE STATE OF Ohio COUNTY OF Summit

This instrument was acknowledged before me by means of an interactive two-way audio and video communication on this 17 day of June, 2025, by Michelle Grossman. This notarial act was an online notarization.



TRESSA SPEIGHT Notary Public State of Ohio My Comm. Expires March 24, 2028

Notary Public, State of Ohio

After Recording Return To: James Jones 1885 FM 2673, PMB 48 Canyon Lake, Texas 78133

Completed via Remote Online Notarization using 2 way Audio/Video technology.

NotaryCam Doc ID: ac64c056-2c21-490d-85b9-bf0948efb376

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## **DECLARATION OF AUTHENTICITY**

State of Texas	
County of Bexar	<del>-</del> <del>-</del>
The attached document,	General Warranty Deed ,
dated June 17, 2025	and containing 2 pages, is a true and correct copy
	me or under my supervision. At the time of printing, no
	electronic record indicated any changes or errors in an
	mation in the electronic record after the electronic record's
	ation is made under penalty of perjury.
	and to made direct periods of perjury.
Signed this 17 day of June	<u>. , 2025</u> .
C/C.	(signature of notary public or other officer)
(seal of office)	
	SYDNEY RAE SIVY
	Notary Public, State of Texas & My Comm. Exp. 06-22-2025
	ID No. 13317019-2
Sudan Cin	<del>\$60000000000000000000000</del>
Sydney Sivy	(printed name of notary public or other officer)
My commission expires:	

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
06/17/2025 04:12:47 PM
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