Preliminary Field Check For Drip Systems



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:

119093.pdf Markup Summary

Efrain Gallegos (3)

equins a TCEQ approved WPAP? | Yes | No revision of the proposed WPAP? A harmin to Construct will vaid by the appropriate separate declarate and the property is not in TCEQ in a not in TCEQ in the property is not in TCEQ in the property i

Subject: Callout Page Label: 2

Author: Efrain Gallegos Date: 10/30/2025 12:36:41 PM

Status:
Color: Layer:
Space:

confirm that property is not in TCEQ contributing zone.



Subject: Text Box Page Label: 8

Author: Efrain Gallegos Date: 10/30/2025 12:31:35 PM

Status: Color: Layer: Space: An inspector will be on property to conduct a preliminary inspection on 10/31/25, additional comments may follow.

Fable III)
Gal
(ITCEQ Approved)

Level: 120 Gal (1/3 day Req'd)
pal/sf
= 480 GPD/0.20 = 2400 sf. (Actual 30
1500 Netifum Bioline drip tubing, 61
sters @ .61 gph @ 30 psi = 7.625 gpm

Subject: Highlight Page Label: 10

Author: Efrain Gallegos Date: 10/30/2025 1:31:49 PM

Status: Color: Layer: Space: reserve capacity does not meet minimum requirements

for 480 GPD.





ON-SITE SEWAGE FACILITY APPLICATION

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

WWW CLED ORG

Date Septe	ember 22, 2025		Permit Nu	1190 mber)93
	AGENT INFORMATION				
_	BILL J. CHEN & CHARLINE CHEN	Agent Name -		REG W. JOHNS	
-	824 SADDLEWOOD LANE	Agent Address		170 HOLLOW	OAK
City, State, Zip	HOUSTON, TX 77024	City, State, Zip	NEW	BRAUNFELS.	TX 78132
Phone #	(713) 927-3055	Phone #		830-905-27	78
Email	billjchen@me.com	Email	gre	gjohnsonpe@ ya	ahoo.com
2. LOCATION					
	e RIVER POINT ESTATES				
Survey Name / A	bstract Number			Acreage	0.8578
Address	894 RIVER CLIFF DTZ	City CANYON			
3. TYPE OF DEV	ELOPMENT				
Single Fami	ily Residential				
Type of Co.	nstruction (House, Mobile, RV, Etc.) REMOD	DELED HOUSE & DETAC	CHED LIVIN	G	
Number of	Bedrooms 3+4				
Indicate Sq	Ft of Living Area 2500 + 2000				
Non-Single	Family Residential				
(Planning ma	aterials must show adequate land area for doubling	g the required land needs	ed for treatme	ent units and disp	oosal area)
Type of Fac	cility				
Offices, Fa	ctories, Churches, Schools, Parks, Etc India	cate Number Of Occup	ants		
	s, Lounges, Theaters - Indicate Number of Se				
	el, Hospital, Nursing Home - Indicate Number				
	Interview Indicate Number of Course				
Miscellaneo					
Estimated Cost	of Construction: \$ 250,000	(Structure Only)			
	of the proposed OSSF located in the United S		ngineers (L	JSACE) flowage	e easement?
Yes X	No (If yes, owner must provide approval from USACE for	or proposed OSSF improve	ments within t	the USACE flowage	e easement)
	Public Private Well Public				
4. SIGNATURE C	Kanadi Lamani				
By signing this appl - The completed ap facts. I certify that	ication, I certify that: plication and all additional information submitted d t I am the property owner or I possess the appropri				
site/soil evaluation - I understand that a by the Comal Cou	ereby given to the permitting authority and designal and inspection of private sewage facilities a permit of authorization to construct will not be issuity Flood Damage Prevention Order. sent to the online posting/public release of my e-m	sued until the Floodplain	Administrator	r has performed t	he reviews require
Signature of Ov	mer well well y file	9/24 Date	1200	25	Page 1 o



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)AERIES D840Absorption/Application Area (Sq Ft)
Gallons Per Day (As Per TCEQ Table III)480
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 confirm that property is not in TCEQ sontributing Zone. Is there an existing TCEQ approval CZP for the property? Yes No contributing zone. (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 9/18/2025 Page 3 of 3

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.

1

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 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.

11

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):

2 UNITO HASE/SECTION	BLOCK _	40	_LOT	RIVER POINT ESTATES	SUBDIVISION
IF NOT IN SUBDIVISION:	ACREAGE	·			SURVEY
The property is owned by	(insert owner's	fell n	nme) <u>:</u>	BILL J. CHEN & CHARLINE (CHEN
the initial two-year service	e policy, the ow	per of a	en aerobic t	contract for the first two years. After reatment system for a single family 30 days or maintain the system	r
Upon sale or transfer of the transferred to the buyer of obtained from the Comail (r new owner. A	copy (of the plann	permit for the OSSF shall be ing materials for the OSSF can be	
WITNESS BY HANDIST	N THIS LST	DAY (,20 25 I. CHEN	
W (J J J J J J J J J J J J J J J J J J	Well.			LINE CHEN (s) Printed name (s)	_
BILL J. CHEN & CHARLE	NE CHEN 8W	ORN 1	o and si	BSCRIBED BEFORE ME ON THIS	DAY OF
Notary Publishing	pature				
Notary Rubble Signature State Signature Signat	William Branch				

THE COUNTY OF COMAL STATE OF TEXAS

CERTIFICATION OF SINGLE FAMILY DWELLING

According to Texas Con the Deed Records of CO	nmission of En MAL COUNT	vironmer FY, TEX	atal Quality KAS.	Rules for On-Site Sewage Facilities,	this document is filed in
Before me this day appearance 894 I	ared LIVER CLIF	BILL	J. CHEN	, being the owners of the . They further state that the Residen	referenced property at e and any additional
living space on this prop	erty will be occ	upied on	ly by a sing	le family.	
An OSSF requiring a Ce	rtification of S	ingle Fan	nily Dwellin	g, will be installed on the property of	lescribed as:
	_BLOCK	40	_LOT_	RIVER POINT ESTATES	_subdivision
IF NOT IN SUBBLIVESION:	A(ruci_			SURVE
				HEN & CHARLINE CHEN	
WITNESS-MY HAND O	N THIS LEF	OF DA	y of _ <i>OO</i>	Apr 20 25 .	
OWNER (SIGNATURE)	\rightarrow		X OWN	20 25 . SR (SIGNATURE)	
SWORN TO AND SUBS	CRIBED BEF	ORE M	E ON THIS	BY DAY OF ANOBEN	, 28_25_BY
BILL J. CHEN OWNER NAME (PRINT	FΛI			CHARLINE CHEN OWNER NAME (PRINTED)	
Manuel Ma		THE THE PARTY OF T	AND OF THE OF TH		

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 10/06/2025 08:53:18 AM PRISCILLA 2 Pages(s) 202506032012



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



<u>SERVICE ADDRESS</u> 894 RIVER CLIFF, CANYON LAKE, TX 78133 INSTALLER RANDY BATEY OS# TERM 2 year

Routine Maintenance and Inspection Agreement

This Work for Hire Agreement (hereinafter referred to as this "Agreement") is entered into by and between Bill+Charline Cheu; (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.

D	0
Property	(Duner

Name

BILL J. & CHARLINE CHEN

Email

billjchen@me.com

Service Address
894 RIVER CLIFF DR
CANYON LAKE, TX 78133

Phone

(713) 927-3055

SERVICE PROVIDER

Aerobic Services of South Texas LLC,

15188 FM 306 Canyon Lake, TX 786133

(830) 964-2365

James 2. Horyton.

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



EFFECTIVE DATE

EXPIRED DATE____

^{*}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 I	Performed: Augu	ıst 14, 2025				
Site Location:	RIV	ER POINT ESTA	TES, UNIT 2, LO	Γ 40	_	
Proposed Excavat	ion Depth:N	I/A				
Locations For subsu proposed	s of soil boring or d urface disposal, soil excavation depth. I	ug pits must be show evaluations must be For surface disposal	wn on the site draw e performed to a de , the surface horizo	ing. pth of at least two fo n must be evaluated		
SOIL BORING	NUMBER	1				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 1 2 3 4 5	III	SILTY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 20"	BROWN
SOIL BORING	NUMBER	2				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 1 2 3 4	SAME		AS		ABOVE	

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

GREG W. JOHNSON
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GREG W. JOHNSON
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GREG W. JOHNSON
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GREG W. JOHNSON

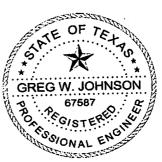
OSSF SOIL EVALUATION REPORT INFORMATION

Date: September 05, 2025 **Applicant Information:** Site Evaluator Information: **BILL & CHARLINE CHEN** Name: Greg W. Johnson, P.E., R.S, S.E. 11561 Name: Address: 170 Hollow Oak 824 SADDLEWOOD LANE Address: HOUSTON State: **TEXAS** City: New Braunfels State: Texas City: Zip Code: 77024 Phone: (713) 927-3055 Zip Code: 78132 Phone & Fax (830)905-2778 Installer Information: **Property Location:** Lot 40 Unit 2 Blk Subd. RIVER POINT ESTATES Name: 894 RIVER CLIFF DIZ Street Address: Company: CANYON LAKE 78133 Zip Code:___ Address: City: Additional Info.: State: City: Zip Code: _____Phone ____ **Topography:** Slope within proposed disposal area: Presence of 100 yr. Flood Zone: YES X NO Existing or proposed water well in nearby area. YES NO X Presence of adjacent ponds, streams, water impoundments >75' to RIVER YES X NO Presence of upper water shed YES NO X Organized sewage service available to lot YES NO X An inspector will be on property to conduct a preliminary inspection on 10/31/25, additional comments may follow.

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

9/05/28 DATE



FIRM #2585

AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR: BILL & CHARLINE CHEN 824 SADDLEWOOD LANE HOUSTON, TEXAS 77024

SITE DESCRIPTION:

Located in River Point Estates, Unit 2, Lot 40, at 894 River Cliff Drive, the septic system will serve an remodeled three bedroom residence (2500sf.) & four bedroom (2000sf) detached living, situated in an area with moderate depth Type III soil as described in the Soil Evaluation Report. Native grasses and Live 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 and detached living into a plumber installed lift tank with dual pumps and alarm. Wastewater is pumped to an Aeries Model D-840 gpd aerobic plant containing a 552-gallon pretreatment tank, an aerobic treatment plant, and a 916-gallon pump chamber containing a (0.5 HP FPS E-Series-20FE05P4-2W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 6.3 minute run time with float setting at 480 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter then through a 1" SCH-40 manifold to a 3000 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 Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. One inch vacuum breakers will be installed at the highest point in the pressure and return manifold. A 1" SCH-40 return line is installed to continuously flush the system to the pump tank by throttling a 1" ball valve. Solids caught in the 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. Prior to installing drip tubing the entire field area will be scarified and built up with 2" of a Type II or III soil. Drip tubing laid and be capped with 6" of Type II or Type III soil (NOT SAND). The field area will be sodded with a hearty 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: 480 gpd (Table III)

Pretreatment tank size: 552 Gal

Plant Size: Aeries D840 gpd (TCEQ Approved)

Pump tank size: 916 Gal

Reserve capacity after High Level: 120 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 480 GPD/0.20 = 2400 sf. (Actual 3000 sf.) Total linear feet drip tubing: 1500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 750 emitters @ .61 gph @ 30 psi = 7.625 gpm Pump Requirement (cont.): (0.5 HP FPS E-Series-20FE05P4-2W115)

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

MSV = 1.5 gpm PER LINE * 5 LINES = 7.5 GPM MIN FLOW RATE

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

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

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)

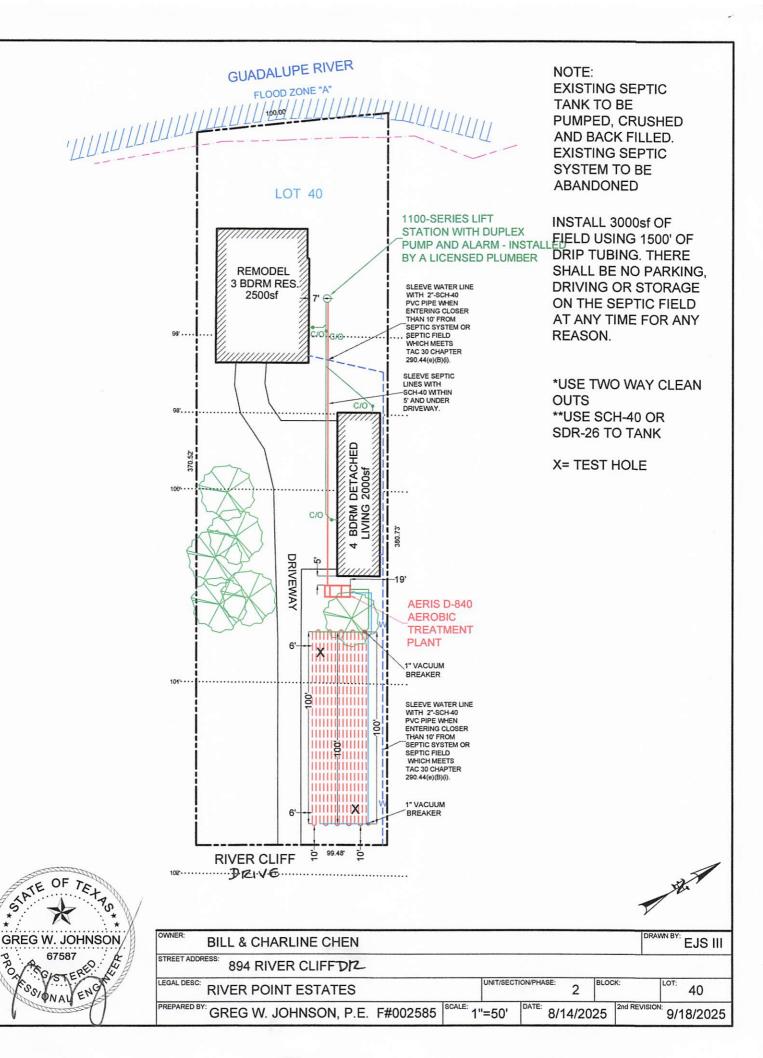
Greg W. Johnson P.E.

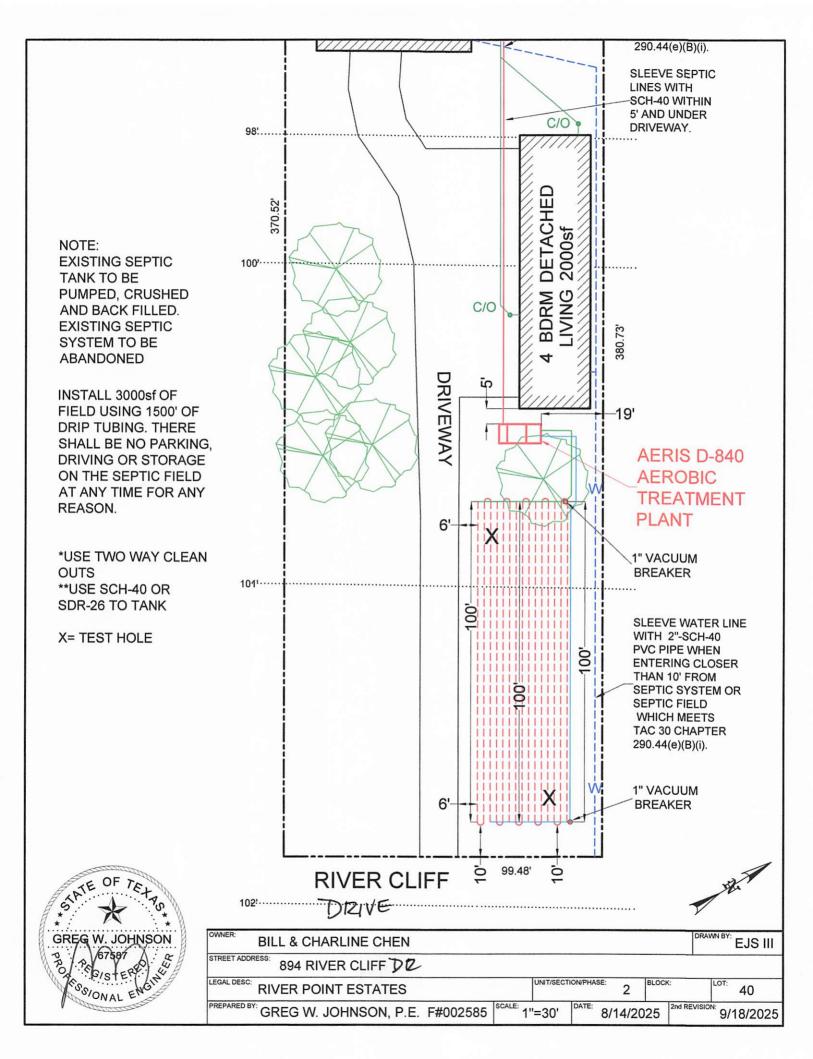
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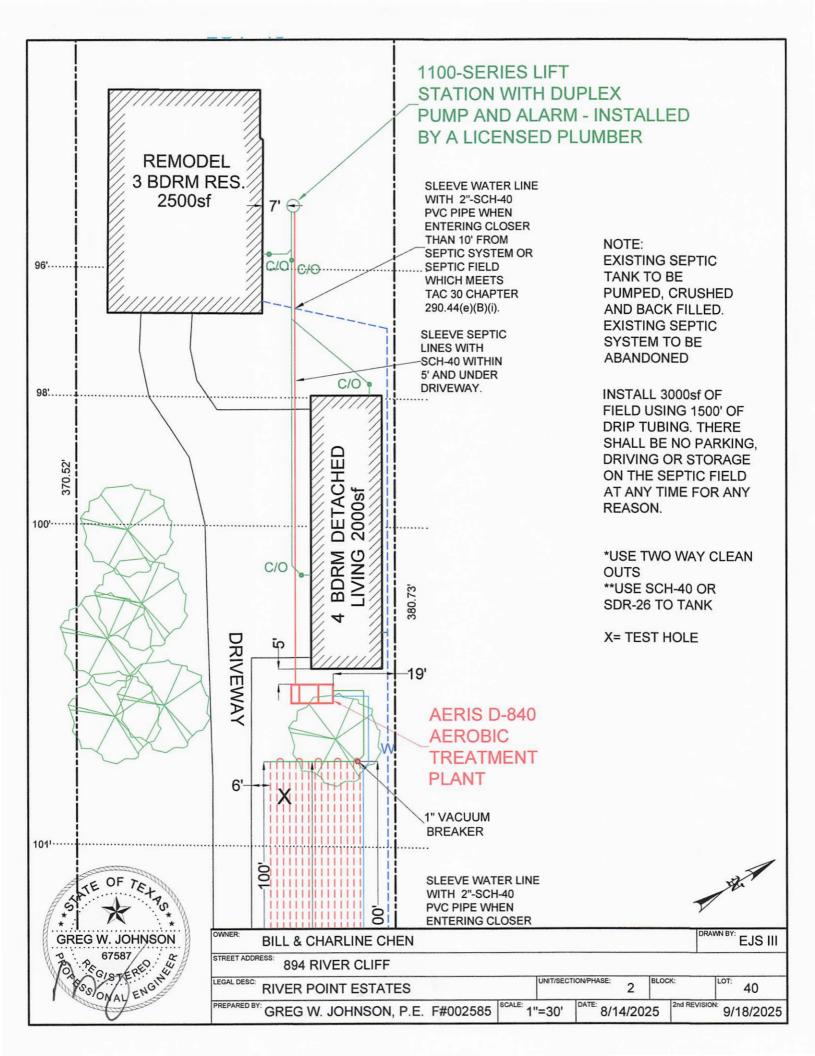
170 Hollow Oak

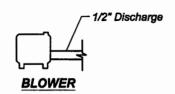
New Braunfels, Texas 78132

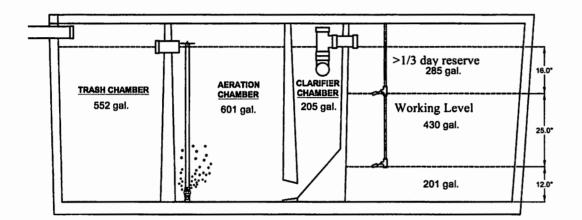
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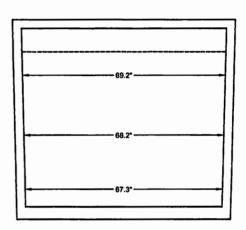






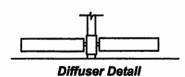






SIDE SECTION VIEW

SCALE: 1' = 3/8 "



2 - 250 mm Max flow per diffuser = 55 liters/minute **END SECTION VIEW**

SCALE: 1' = 3/8 "

GREG W. JOHNSON

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Title:

Model D-840 Night Time Pumping Company Name:

Aeris Aerobics

Date:

5-8-2014

Arkal 1" Super Filter

Catalog No. 1102 0____

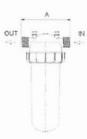
Features

- · 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 ³ /h (1.7 l/sec)	35 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
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
рН	5-11	5-11





Filtration Grades

Blue (400 micron / 40 mesh)

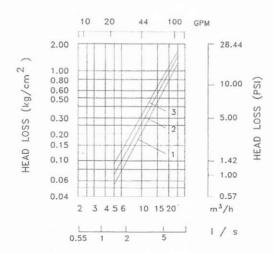
Yellow (200 micron / 80 mesh)

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

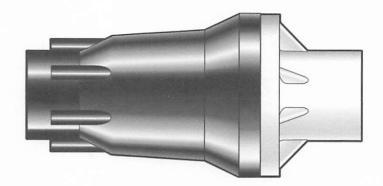
1" FBSPT x 1" FBSPT model

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

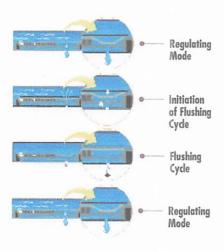
Model Numbers

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



SECHFILTED

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

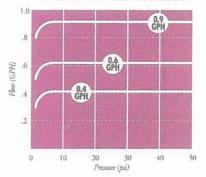
Inside diameter: .570*

Color: Purple tubing indicates non-potable

source

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

BIOLINE Flow Rate vs. Pressure





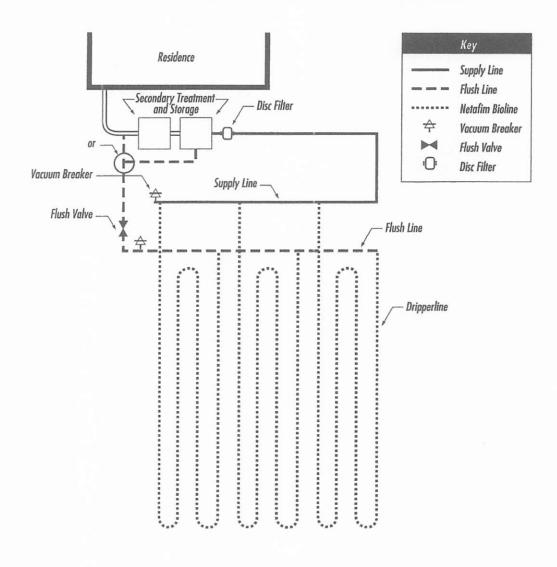
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

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





GENERAL WARRANTY DEED

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REVOKE 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.

THE STATE OF TEXAS	§	
	§	KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF COMAL	§	

THAT THE UNDERSIGNED, MARK L. OLIVEAUX AND CONNIE G. OLIVEAUX, HUSBAND AND WIFE, hereinafter referred to as "Grantor", whether one or more, for and in consideration of the sum of TEN DOLLARS (\$10.00) cash, and other good and valuable consideration in hand paid by the Grantee, herein named, whose address is 824 SADDLEWOOD LANE, HOUSTON, TEXAS 77024, the receipt and sufficiency of which is hereby fully acknowledged and confessed, has GRANTED, SOLD and CONVEYED, and by these presents does hereby GRANT, SELL and CONVEY unto BILL J. CHEN AND CHARLINE CHEN, herein referred to as "Grantee", whether one or more, all Grantor's right, title and interest in and to the real property described as follows, to-wit:

LOT 40, RIVER POINT ESTATES UNIT-2, COMAL COUNTY, TEXAS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 4, PAGE(S) 40-41, MAP AND PLAT RECORDS, COMAL COUNTY, TEXAS.

Commonly known as: 894 RIVER CLIFF DRIVE, CANYON LAKE, TEXAS 78133

This conveyance, however, is made and accepted subject to any and all validly existing encumbrances, conditions and restrictions, relating to the hereinabove described property as now reflected by the records of the County Clerk of COMAL County, Texas.

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 and/or assigns forever; and Grantor does hereby bind Grantor's heirs, executors, administrators, successors and/or assigns, to WARRANT AND FOREVER DEFEND all and singular the said premises unto the said Grantee, Grantee's heirs, executors, administrators, successors and/or assigns, against every person whomsoever claiming or to claim the same or any part thereof.

Current ad valorem taxes on said property having been prorated, the payment thereof is assumed by Grantee.

TO BE EFFECTIVE this 29TH day of AUGUST, 2025.

GRANTOR:

MARKI OLIVEAUX

CONNIE G. OLIVEAUX

ACKNOWLEDGMENT

THE STATE OF TEXAS

COUNTY OF COMAL

The foregoing instrument was acknowledged before me on the day of AUGUST, 2025, by MARK L. OLIVEAUX AND CONNIE G. OLIVEAUX.



NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES: D4. 23. 2.02.9

AFTER RECORDING, RETURN TO:

BILL J. CHEN AND CHARLINE CHEN 824 SADDLEWOOD LANE HOUSTON, TEXAS 77024

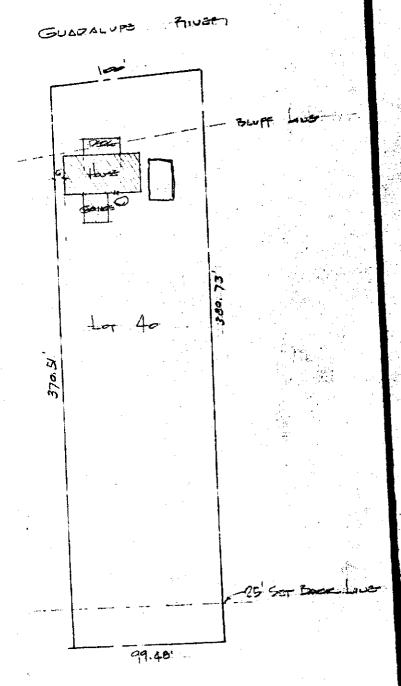
GENERAL WARRANTY DEED

Page 2 of 2

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 09/02/2025 08:39:40 AM MARY 2 Pages(s) 202506027981



CCEO COPY



RIVER CLIFF DRIVE

Lot 40 PHUSEN LANT TOTATES

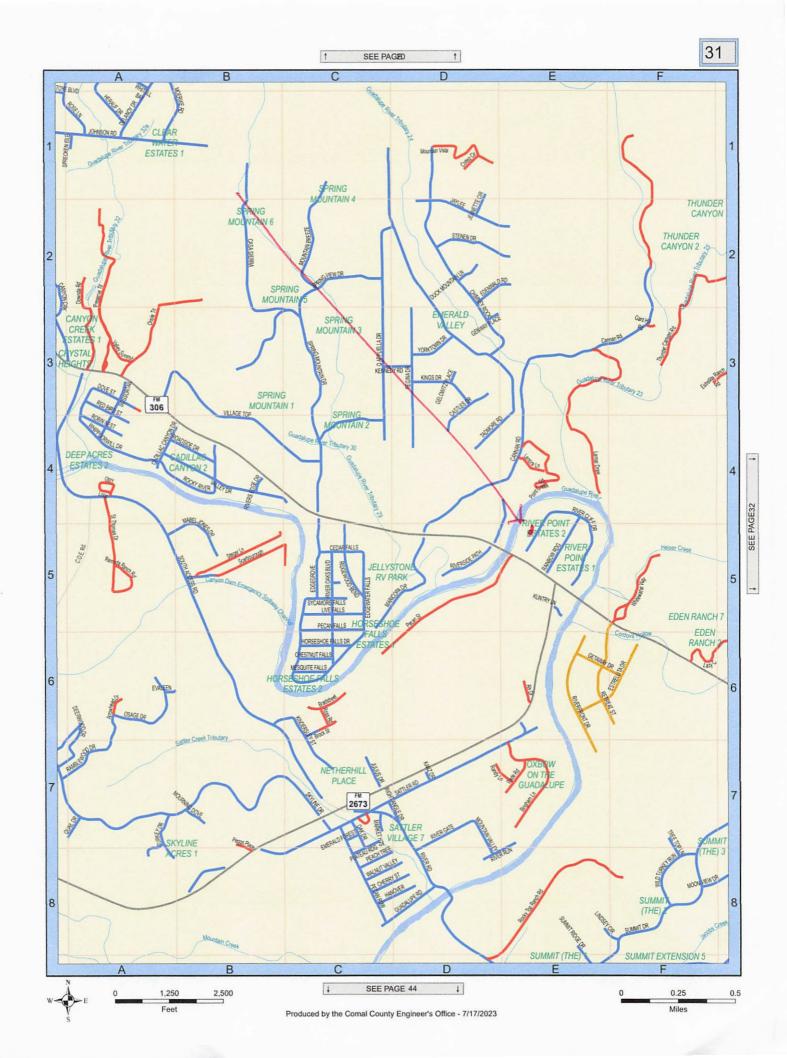
PLOT PLAU 1=500

CCEO_{URE A}

	1.	NAME OF SUBDIVISION OF LOCATION OF PROPERTY RIVER POINT
:	2.	UNIT NO. BLOCK LOT 40
		TOTAL AREA OF LOT
	4.	RECHARGE ZONE ? () YES () NO SURFACE SLOPE CHARACTERISTICS OF LOT (in feet) Vulativity
	٥.	Lost at test site
· · ·	6.	TYPE OF SOIL ROCK SOND
	TES	DEPTH ST HOLES OF HOLE RATE OF PERCOLATION
•	1.	$\frac{1}{\sqrt{3}}$
	2.	(D) (8) 75"
	з.	DATE OF TEST 6/14/ PERSON PERFORMING
٠	4.	TEST (U)
	5.	REG.# (9137)
•	6.	
		· ./
		SHETCH OF LOT AND LOCATION OF TEST
		The state of the s

LICENSE TO OPERATE A PRIVATE SEWAGE FACILITY PERMIT # 66944 DATE 10-04-84 p iva e sewage system located at River Point Lot 40 be en inspected and found to consist of a gun gallon tank and a square foot drainfield, or and conforms to the minimum standards in effect as of the above date. Additional requirements: _______ Inspectors Sketch 1. 10-02-84 (Trawing is not to scale) 2. 10-04-84 3. 10-04-84 (sand out of drainfield) Tank, Diameter- 73" Structure was(was not () on site Depth - ינליץ (ד'א) Outlet - "" Actual volume- 847 Guadalupe River edge of slope down to river level terrain House GARAGE 6 Tele. Polc River Cliff Dr. - INSPECTOR DO MODORE SANITARIAN APPROVAL

OCT 15 1984







OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

119093

			1
•	Date Received	Initials	Permit Number
nstructions: Place a check mark next to all items that apply. For items Checklist <u>must</u> accompany the completed application.	that do not apply, place	"N/A". This	s OSSF Development Application
DSSF Permit			
Completed Application for Permit for Authorization to	o Construct an On-Site S	Sewage Fac	cility and License to Operate
Site/Soil Evaluation Completed by a Certified Site E	valuator or a Professiona	al Engineer	
Planning Materials of the OSSF as Required by the of a scaled design and all system specifications.	TCEQ Rules for OSSF (Chapter 28	5. Planning Materials shall consis
Required Permit Fee - See Attached Fee Schedule			
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System			
Recorded Certification of OSSF Requiring Ma	intenance/Affidavit to the	Public	
Signed Maintenance Contract with Effective D	ate as Issuance of Licen	se to Oper	ate
affirm that I have provided all information required footstitutes a completed OSSF Development Applicat		ent Applic	ation and that this application
180	10	/09/2	025
Signature of Applicant			Date
COMPLETE APPLICATION Check No. Receipt No.	(Miss		LETE APPLICATION circled, Application Refeused)