Comal County Environmental Health OSSF Inspection Sheet

Installer Name:	OSSF Installer #:	OSSF Installer #:			
1st Inspection Date:	2nd Inspection Date:	3rd Inspection Date:			
Inspector Name:	Inspector Name:	Inspector Name:			

Perm	it#:		Address:				
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)				
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)				
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(B) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

Inspector Notes:

Comal County Environmental Health OSSF Inspection Sheet

	B	A	C't at a		4	2-11	211.
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and " T " Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum Requirements		285.32(b)(1) (E)285.91(2)285.32(b)(1) (F)285.32(b)(1)(E) (iii)285.32(b)(1)(E)(iii) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1) (B)285.32(b)(1) (A)285.32(b)(1)(E)(iv)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
	SEPTIC TANK Tank Volume Installed						
	PUMP TANK Volume Installed						
13	AEROBIC TREATMENT UNIT Size Installed						
14	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
18							

Comal County Environmental Health OSSF Inspection Sheet

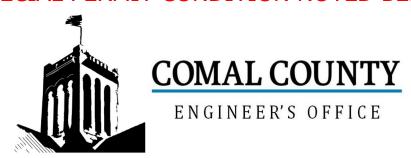
	B d . ut	•	6 11 - 11		4.11		2.11
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
	AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)				
34	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
38	PUMP TANK Secondary restraint system provided						
	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						

Comal County Environmental Health OSSF Inspection Sheet

	· · · · · · · · · · · · · · · · · · ·								
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.		
	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II) 285.33(d)(2)(G)(iii)(III) 285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iii)(I)						
	APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F)						
	APPLICATION AREA Area Installed								
	PUMP TANK Meets Minimum Reserve Capacity Requirements								
	PUMP TANK Material Type & Manufacturer								
	PUMP TANK Type/Size of Pump Installed								



***SEE SPECIAL PERMIT CONDITION NOTED BELOW



Permit of Authorization to Construct an On-Site Sewage Facility Permit Valid For One Year From Date Issued

Permit Number: 116459

Issued This Date: 09/27/2023

This permit is hereby given to:

Brian and Leslie Krause

To start construction of a private, on-site sewage facility located at:

2060 BELLA VISTA

CANYON LAKE, TX 78133

Subdivision: AVONLEA

Unit: n/a
Lot: 68

Block: n/a

Acreage: 0.5600

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Drip Irrigation

This permit gives permission for the construction of the above referenced on-site facility to commence. Installation must be completed by an installer holding a valid registration card from the Texas Commission on Environmental Quality (TCEQ). Installation and inspection must comply with current TCEQ and Comal County requirements.

Call (830) 608-2090 to schedule inspections.

***THE US ARMY CORPS OF ENGINEERS FLOWAGE EASEMENT BOUNDARY LINE / 948 LINE MUST BE CLEARLY MARKED AT THE TIME OF INSPECTION.



ON-SITE SEWAGE FACILITY APPLICATION



Date June 2, 2025		matering in discussion of the model that delivery production of the section and the self-production	11.6450	
4 APPLICANT IN THE		Permit Number	116459	
1. APPLICANT / AGENT INFORMATION				
Owner Name Brian Krause +Leste Am Krau	e Agent Name	Carl Nelson		
Mailing Address 2 Falling Leaf	Agent Address	14603 Huebr	ner Ste 3403	
City, State, Zip Friendswood, TX 77546	City, State, Zip		The second secon	
Phone # 409-218-5181	Phone #	San Antonio, TX 78230 210-378-3845		
Email krausebl@sbcglobal.net	Email	carln@omnicu	stoms.com	
2. LOCATION		and the second	тей подология теревория до почения выдачает на принципалний почений почений на принципалний до почений для выполняющей для выстранительного для выполняющей для выполняющей для выполняюще	
Subdivision Name Avontea Subdivision Survey Name / Abstract Number	Ur	nitLot	68 Block	
The second secon			ACTERGE	
Address 2000 Bella Vista	City Canyon Lal	<e sta<="" td=""><td>te TX Zip 78130</td></e>	te TX Zip 78130	
O. THE OF DEVELOPMENT		4	enconnection to the contract of the contract o	
Single Family Residential				
Type of Construction (House, Mobile, RV, Etc.) House				
Number of Bedrooms				
Indicate Sq Ft of Living Area 3607				
Non-Single Family Residential				
(Planning materials must show adequate land area for doubling the	required land neede	ed for treatment unit	s and disposal area)	
Type or Facility			,	
Offices, Factories, Churches, Schools, Parks, Etc Indicate	Number Of Occup	pants		
Restaurants, Lounges, Theaters - Indicate Number of Seats				
Hotel, Motel, Hospital, Nursing Home - Indicate Number of E	Beds	en men egentetuggen da kennennya generak bermanya da keleben da keleben da keleben da keleben da keleben da ke	O Massacra de la fina de la referencia de la seconda de la fina de	
The state of Spaces				
Miscellaneous	and the second s	ethikki king sahaunteen 60 kun erenne kine (perepentrian europe vator in sahakipes - europe sakas sa sak	омень министрук у так постав и март в мере быт до урану мере и постор поставо до обосновного поставания выстро	
Estimated Cost of Construction: \$ 675,520 (St	ructure Only)		and the second public second s	
Is any portion of the proposed OSSF located in the United States	Army Corps of Fr	ngineers (USACE) flowage easement?	
Y res No (if yes, owner must provide approval from USACE for no	oposed OSSF improve	ments within the USA	CE flowage easement)	
Source of Water Public Private Well			3	
4. SIGNATURE OF OWNER By signing this application I and the I				
By signing this application, I certify that: The completed application and all additional information submitted does r facts. I certify that I am the property owner or I possess the appropriate la property.	and rights necessary	to make the permitt	ed improvements on said	
 Authorization is hereby given to the permitting authority and designated a site/soil evaluation and inspection of private sewage facilities I understand that a permit of authorization to construct will not be issued up by the Comal County Flood Damage Prevention Order. 	ıntil the Floodplain A	dministrator has per	formed the reviews required	
 I affirmatively consent to the online posting/public release of my e-mail ad 	dress associated with	h this permit applica	ation, as applicable.	
12561	6/5/	-		
Signature of Owner	Date		D4	



ON-SITE SEWAGE FACILITY APPLICATION



10:29 am, Sep 12, 2024
Planning Materials & Site Evaluation as Required Completed By Hoyt Sendenstucks
System Description Acrobic with Drip Irrigation
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) 600 GFO ATU Absorption/Application Area (Sq Ft) 1584
Gallons Per Day (As Per TCEQ Table III)
(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
(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 TCEO entract AVPAPA COLOR
(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? Ves No
Is there an existing TCEQ approval CZP for the property?
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)
f there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No
If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be ssued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
s this property within an incorporated city?
f yes, indicate the city:
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.
9-41-7
Signature of Designer HOYT SEIDENSTICKER Date



THE COUNTY OF COMAL STATE OF TEXAS



202306018606 06/13/2023 11:35:21 AM 1/1

AFFIDA VIT

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 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 owners 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.

II

the property described as (insert legal description): 2060 Belle Vista
Lot 68, Avonlea Subdivision, Comal County Texas
Lot 68, Avon lea Subdivision, Comal County Texas The property is owned by (owner as per deed) Brian Wayne Krause and Leslie Ann Kra
This OSSF shall be covered by a continuous service policy for the first two years. After the initial two-year service policy the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally.
Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF may be obtained from (insert name of permitting authority).
WITNESS BY HAND(S) ON THIS 5 DAY OF M Jone , 2023.
Brian W. Krause
Owner(s) signature(s) Owner(s) Printed Name(s) Owner(s) signature(s) Owner(s) Printed Name(s) Owner(s) Printed Name(s)
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS $\frac{5^{11}}{2023}$ DAY OF $\frac{3}{20}$ DAY OF $\frac{3}{2}$
Notary Public Signature CESAR CASTILLEJA MY COMMISSION EXPIRES

Land Stewardship SVC. LLC 124 Bristow way Boerne, Tx. 78006

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County Texas
06/13/2023 11:35:21 AM
TAMMY 1 Page(s)
202306018606

NOTARY ID: 133967803



Regu	latory Authority	Permit / License Number
J	AJ Construction Services, LLC	Customer Brian Krause
Α	erobic Services Division	Site Address 2060 Bella Vista
	eff Jay - MP0001423	
	013 Hwy 46 East	City, State, Zip Canyon Lake, TX 78133
	oerne, TX 78006	Mailing Address 2 Falling Leaf Friendswood, TX 77546
		County Comal Map #
	hone (830) 336-3821	County <u>Comal</u> Map # Email Address <u>krausebl@sbcglobal.net</u>
F	ax (830) 336-3841	Phone # <u>409-218-5188</u>
	WASTEWATER TREATMEN The effective date, if this is an initial mainten	T FACILITY MONITORING AGREEMENT ance contract, shall be the date the license to operate is issued.
Į.	By this Agreement JAJ Construction Services, LLC a	crein after referred to as "Agreement") is entered into by and between (hereinafter referred to as "Customer") and JAJ Construction Services, LLC. Indies its employees (hereinafter inclusively referred to as "Contractor") agree to render and herein, and the Customer agrees to fulfill his/her/their responsibilities, as described imum of 360 gallons per day.
II.	Effective Dates: This Agreement commences on	and ends on for a total of
	notify the Contractor within two (2) business days of the by Contractor within ninety (90) days after completion the date the "License to operate" (Notice of Approval) in the date the "Licen	1) year (there after). If this is an initial Agreement (new installation), the Customer will system's first use to establish the date of commencement. If no notification is received of installation or where county authority mandates, the date of commencement will be was issued by the permitting authority. This Agreement may or may not commence at ment, but in no case shall it extend the specified warranty.
111.	Renewal: This Agreement shall automatically renew	each at the same terms, conditions, and costs, unless either party gives notice of
	termination a minimum of thirty (30) days prior to end of	first Agreement period. See Section IV.
IV.	Termination of Agreement: This Agreement may be for example, substantial failure to perform to accordance terminated, Contractor will be paid at the rate of \$75.00 After the deduction of all outstanding charges, any rem (30) days. Either party terminating this Agreement for	terminated by either party with thirty (30) days written notice for any reason, including e with its terms, without fault or liability of the terminating party. If this Agreement is so per hour for any work performed and for which compensation has not been received. In aining monies from prepayment for services will be refunded to Customer within thirty any reason, including non-renewal, shall notify in writing the equipment manufacturer nirty (30) days prior to the date of such termination. Nonpayment of any kind shall be
٧.	a. Inspect and perform routine upkeep on the	On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the by state and/or local regulation, for a total of three (3) visits to site per year.
	 b. Provide a written record of visits to the site by c. Repair or replace, if Contractor has necessar course of a routine monitoring visit. If such sentences authorizes Contractor to perform the \$100.00, or if Contractor does not have necessary 	means of an inspection tag attached to or contained in the control panel. Ty materials at site, any component of the OSSF to be failing or inoperative during the cervices are not covered by warranty, and services costs are \$100.00 or less, Customer as service and bill Customer for said service. When service costs are greater than essary supplies at the site, Contractor will notify Customer of required service(s) and contractor of arrangements to affect repair of system within two (2) business days after
	d. Provide sample collection and laboratory testing	ng of TSS and BOD on a yearly basis (commercial systems only).
		orts to the regulatory agency and the Customer.
		or unscheduled service within forty-eight (48) hours of the date of notification (weekends
	and holidays excluded) of said request. Unle	ss otherwise covered by warranty, costs for such unscheduled responses will be billed
	to Customer.	
V1.	Disinfection: Not Required Required	The responsibility to maintain the disinfection device(s) and provide any necessary
	chemicals is that of the Customer (Initial).	
VII.	Electric Monitoring: Electronic Monitoring is not include	led in this Agreement.
VIII.	a. If this is an Initial Agreement (new installation)	rmance by Contractor under this Agreement is contingent on the following conditions:

- Contractor's receipt of a fully executed original copy or facsimile of this Agreement and all documentation requested by Contractor.
- Contractor.
 Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of this Agreement.
- b. If this is not an Initial Agreement (existing system).
 - Contractor's receipt of a fully executed original copy or facsimile of this Agreement and all documentation requested by Contractor.
 - ii. Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of this Agreement.
- c. If the above conditions are not met, Contractor is not obligated to perform any portion of this Agreement.

- IX. Customer's Responsibilities: The Customer is responsible for each and all of the following:
 - Provide all necessary yard or lawn maintenance and removal of all obstacles including, but not limited to, dogs and other animals, vehicles, trees, brush, trash, or debris as needed to allow the OSSF to function properly, and to allow Contractor safe and easy

b. Protect equipment from physical damage including, but not limited to, that damage caused by insects.

Maintain a current license to operate, and abide by the conditions and limitation of that license, and all requirements for and OSSF from the State and or local regulatory agency, whichever are more stringent, as well as proprietary system's manufacturer d.

Notify Contractor immediately of any and all alarms, and/or any and all problems with, including failure of the OSSF.

Provide, upon request by Contractor, water usage records for evaluation by Contractor as to the performance of the OSSF.

Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluation on the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section V sub-section 'd' above. Customer agrees to pay Contractor for sample collection and transportation, portal to portal, at a rate of \$35.00 per hour plus the associated fees for laboratory testing.

Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.

Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.

Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contractor, at Customer's expense. Maintain site drainage to prevent adverse effects on the OSSF.

Pay promptly and fully all Contractor's fees, bills, or invoices as described herein.

X. Access by Contractor: Contractor is hereby granted an easement to the OSSF for the purpose of performing services described herein. Contractor may enter the property during Contractor's normal business hours and/or other reasonable hours without prior notice to Customer to perform the services and/or repairs described herein. Contractor shall have access to the OSSF electrical and physical components. Tanks and treatment units shall be accessible by means of man ways or risers and removable covers, for the purpose of evaluation as required by State and/or local rules and the proprietary system manufacturer. If not an initial Agreement (new installation) and this access is not in place or provided for by the Customer, the cost for the labor of excavation, and possibly other labor and material costs will be required. These costs shall be billed to Customer as an additional service at a rate of \$35.00 per hour, plus materials at list price. Excavated soil shall be replaced as best as Contractor can at the time such service is performed and under no circumstances is Contractor responsible for damages to sod, grass, roots, landscaping, or any unmarked underground items (telephone, television, or electrical cable, water, air, or gas lines, etc.), or for the

XI. Limit of Liability: Contractor shall not be held liable for any incidental consequential, or special damages, or for economic loss due to expense, or for loss of profit or income, or loss of use to Customer, whether in contract tort or any other theory. In no event shall Contractor be liable to an amount exceeding the total Fee for Services amount paid by Customer under this Agreement.

Severability: If any provision of the "Proposal and Contract" 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 the "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

XIII. Fee for Services: The fee does not include any equipment, material, or labor necessary for non-warranty repairs or for unscheduled

Payment: Full amount due upon signature (Required of new Customer). Payment of invoice(s) for any other service or repair provided by Contractor is due upon receipt of invoice. Invoices are mailed on the date of invoice. All payments not received within thirty (30) days from the invoice date will be subject to a \$29.00 late penalty and a 1.5% per month carrying charge, as well as any reasonable attorney's fees, and all collection and court costs incurred by Contractor in collection of unpaid debt(s). Contractor may terminate contract at any time for nonpayment for services. Any check returned to Contractor for any reason will be assessed a \$30.00 return check fee.

XV. Application or Transfer of Payment: The fees paid for this Agreement may transfer to the subsequent property owner(s); however this Agreement is not transferable. Customer will advise subsequent property owner(s) of the State requirement that they sign a replacement Agreement authorizing Contractor to perform the herein described Services, and accepting Customer's Responsibilities. This replacement Agreement must be signed and received in Contractor's office within ten (10) business days of date of transfer of property ownership. Contractor will apply all funds received from Customer first to any past due obligation arising from this Agreement including late fees or penalties, return check fees, and/or charges for services or repairs not paid within thirty (30) days of invoice date. Any remaining monies shall be applied to the funding of the replacement Agreement. The consumption of funds in this manner may cause a reduction in the termination date of effective coverage per this Agreement. See Section IV.

Entire Agreement: This Agreement contains the entire Agreement of the parties and there are no other conditions in any other Agreement,

The effective date of this initial maintenance contract shall be the date the license to operate is issued.

Jeff Jay

Customer Signature

1 copy: JAJ Construction Services, LLC

1 copy: Customer

1 copy: Regulatory Authority

6/5/23

ON-SITE SEWAGE FACILITY Site Evaluation Report Information

Date: 7/1/20	123	0 14 -					
Applicant Information:			aluator I				
Name: Brian and Leslie Krause		Name:		eidenstick			
Address: 2 Falling Leaf			OS0008				2023
City: Friendswood State: Texas	Zin 77546	Compan	y:	Land S	Stewardshi	p Services	s, LLC
Phone: 409-218-5181	Zip		124 Bris				
Property Location:		City:	Boerne	_ State:	Texas	_ Zip:	78006
Lot: 68 Blo	ck		(210) 41		-		
Sub.: Las Brisas at Ensenada Shores		Email	hoyt@la	andstewa	<u>ardshipse</u>	rvices.co	<u>m</u>
Street/Road Address: 2060 Bella V			r informa				
City: Canyon lake State: Texas	Zip: 78133	LIC #	000000	<u>Jeff Jav</u>	y		
Unincorporated Area? Y or N	y		<u>OS0020</u>		Expires		
Additional information	•	Address:		_ J.A.J. (Constructio	n Service:	s, LLC
		Address:					
		Phone:			Texas		78006
Show:	Schematic of	Lot or Tr	(030) 330 act)-3821	Fax:		
Location of soil borings or dug pits Location of natural, constructed, or high tide of salt water bodies) wate							
	SITE DRAW	VING		Lot Size:			acres
SEE ATTACHED							
Signature of Site Evaluator	FATT		ite Evalu	ator Lice	ense No:	OS00087	771

ON-SITE SEWAGE FACILITY Soil Evaluation Report Information

Date	0-11-0		001	Lvalual	ion Report I	ntorma	tion		
Date 9	Soil Survey	Performed:		7/1/20	23				
	ocation:			2060 Bella	Vista				
	of Site Eva	-		Hovt Seider	nsticker	Registrati	on Number	QS0008771	
Propos	sed Excavat	tion Depth:		6 inches	ionori	County	on Number:		
Requir	Officials.							Comal	
	For subsu	rface disposa or surface dis	al, soil evaluation	n must be perfo ce horizon must any restrictive f	rmed to a depth of ot	least two fee	t below the p	roposed excavation	n
				1	Drainage		Т		
	Depth (feet)	Texture Class	Soil Structure	Gravel	(Redox Features/	1	Observ	ations (color,	
	0	III	Clay loam		Water Table)	Horizon		sistence)	
	1 12 in	111	Clay loam	<30%	none			Brown	
	2		Jay Idalil	<30%		Cre	am with cald	careous material	
	3 36 in		rock			yes, rock			
	4) you, rook		of the state of th	
	5								
	Soil Boring	Number		2	L	L			
	Depth	Texture		Gravel	Drainage (Podov Footy)				
	(feet)	Class	Soil Structure	Analysis	(Redox Features/ Water Table)	Restrictive Horizon		tions (color,	
	0	111	Clay loam	<30%	none		0.73.03.00	rown	
	1 12 in	111	Clay loam	<30%		Crea		areous material	
	2						widi calci	areous material	
	3 <u>36 in</u>		rock			yes, rock			
	4					yes, rock			
	5								
					Features of	Sito Aro			
resence	of 100 year	flood zone			Yes_x_ No	oire Wife	a		
resence	of adjacent	ponds, strea	ams, water imp		res_x_No				
			nearby area		/es Nox				
			ole to lot or trac		es No_x_				
	feature with				'es No_ <u>x</u>				
my signat	ture, I herby ce	ertify that the in	formation provide	d in this report is	based on my site observ	ration			
nderstand	that any misre	epresentation o	f the information of	Contained in this n	eport my be grounds to	ations and are	accurate to the	e best of my ability.	
ermined ti	he site is suita	ble for a D	rip Irrigation					e. The site evaluation	1
				system. A copy of	sposal system with of Table XIII has been gi	A	erobic	trea	atme
are alternat	ives based up	on the result of	f this site evaluation	on	1 able XIII has been gi		erty owner to in	nform them of	

Brian and Leslie Krause

	Brian and Les	lie Krause
	Gallons per Day	360
	Application Rate (gal/sq. ft/day)	0.25
	Square footage required	1440
	Feet between Lines	2
	Feet between emitters	2
	Number of zones	1
	Linear feet of dripline	792
	Number of emitters	396
	Linear Feet of Tubing Per Zone	792
	Type of emitters	Pressure compensating
	Determine drip field pressure (psi)	35
	Feet of head pressure	80.85
	gph/emitter	0.61
	gallons per minute per Zone	4.0
	gallons per hour	241.56
	minutes per dose	13
	Minutes Per Day Per Zone	89
	gallons per day	360
	Doses per Zone	7
	Total Doses per Day	7
	Time Between Doses in Hours	3.4
	Total Run time in Minutes	89.41877794
	Number of Connections to Manifold	4
,	Linear feet of dripline per connection	198
	minimum pump capacity (gpm)	4.0
	header pipe size (inches)	1
	Pressure loss in 100 ft. pipe (psi)	1.58
	Friction head in 100 ft. of pipe (ft of head)	3.6498
Static head		
	height from pump to top of tank (ft.)	4
	Elevation increase (ft.)	1
	Total static head (ft.)	5
Friction head		
	equivalent length of fittings (ft.)	1
	Distance from pump to field (ft.)	158
	Total equivalent length of pipe (ft.)	159
	total effective head (ft.)	5.80
	head required at drip field (ft.)	80.85
	Head loss through filters or headworks (ft.)	23.10
	head loss through valves (ft.)	3.47
	Minimum total head (ft.)	113.22

REVISED

1:21 pm, Sep 12, 2024

16459



Property Information:

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

REVISED
10:28 am, Sep 12, 2024

116459

Brian and Leslie Krause

	nouse information					
St. Address: 2060 Bella Vista	No. of Bedrooms:	4				
City: Canyon Lake State: Texas	Sq. footage (Approx.):	3607				
Zip code: _78133	Water Supply:	public				
Predicted Quantity of Sewage (Q)	Gallons per day	360				
Water Saving Devises in Home (y/n):yes	Supply Line from House					
Gallons/day (Q):360	Length of supply line (approx. ft.)	10				
Greywater included (yes/no): yes	Type of supply line:					
	Size of Supply line (in):	3 or 4				
Rate of Adsorption (Ra)						
Application rate (g/sq. ft): 0.25	Supply Line to Drip Irrigation M	anifold				
Minimum Adsorptive Area (sq. ft.):1440	Length of supply line (approx. ft):	158				
Absorptive area installed (sq.ft.) 1584	Type of supply line:	Purple SCH 40				
Aerobic Unit	Size of supply and flush line (in):					
Required size of aerobic unit:600 gpd		не при повет в повет дост по повет в повет в повет дост по общени повет повет в почет в повет в повет в повет				
Pretreatment Tank (gallons):378						
Class 1 Aerobic Unit:: Solar Air SA-600 768F	PT					
Pump tank total capacity (gal):768	Required linear foot of tubing:	720				
Chlorination:n/a	Linear feet of tubing installed:	792				
Pump Switch operation: Float system						
Dosing cycle quantity (gals): Varied						
Cycling time: night time						
Pump size and capacity: Schaefer E-Series 20						
All design criteria is in accordance with TCEQ, Titl	le 30, TAC Chapter 285, Subchapter	D, On-Site				
Sewage Facilities (Effective December 29, 2016).	The above design was based on the	е				
est available information and should function pro	perly under normal operating conditi	ons.				
All changes or modifications made to design must	be approved by the below signed de	esigner.				
Hof leilth	9-11-24	STATE OF TRUIT				
loyt Seidensticker, R.S. No. 3588	Date	OYT SEIDENSTICUTE				
and Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006						
Cell (210) 414-6603 <u>hoyt@landstewardship</u>		" FREDERHY"				

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

REVISED10:28 am, Sep 12, 2024

Brian and Leslie Krause

A class 1 residential aerobic treatment unit will be designed for this home. Wastewater from the home will flow to the pretreatment tank of the aerobic unit. From the pretreatment tank, effluent will flow to the treatment unit. Treated effluent will then flow to the pump tank for disposal through subsurface drip irrigation. All warning systems shall be installed with the aerobic unit.

Field loading Rates and Distribution

All flow from the treatment compartment of the aerobic unit will flow into a pump tank.

The pump tank will be equipped with a submersible pump. The pump will dose the single zone.

A 100 micron effluent filter must be installed in the supply line to prevent introduction of sediments & suspended organic materials into the drip tubing. Vacuum relief valves need to be installed in each zone at the highest point of both the supply and return manifolds. Ball valves must be installed on the return lines for pressure adjustment.

The drip lines will be laid on two foot centers and parallel with the contour of the land. The drip lines will not be laid perpendicular with the slope. The drip lines will then be covered with a minimum of 6 inches of the material.

Drip lines are to be placed on 2 ft centers and tied into a pressure manifold at one end and a return manifold which is run back to the pump tank for continuous flushing of the drip lines. A pressure gage and control valve on the return line at the pump tank is to be set at 35 psi, which maintains a minimum required pressure of the drip emitters. The drip lines will be flushed continuously when the pump doses the drip field. The drip lines will be continuously flushed.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 205, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker, R.S. No. 3588

Date

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

Cell (210) 414-6603

hoyt@landstewardshipservices.com



ON-SITE SEWAGE FACILITY DESIGN CRITERIA

REVISED
10:28 am, Sep 12, 2024

Brian and Leslie Krause

The area of the drip tubing will need to be shaped by the installer. The area will need to be leveled before installing the drip tubing. The drip tubing needs to be installed as level as possible. A minimum of 12 inches of class II sandy loam will be imported and leveled. The drip lines will be laid on top of the class II imported minimum of 12 inches of soil. Then a minimum of 6 inches of class II sandy loam must be placed over the drip lines.

Then entire area where the drip lines have been installed or disturbed, must be sodded with a type of vegetative cover or seeded curlex installed or seeded then a curlex blanket laid over the area or an equivalent county approved method of cover that is considered a high water user prior to system operation.

A maintenance contract for the entire system must be established at time of installation with someone holding a license to maintain the install aerobic system.

The aerobic treatment unit will be installed outside of the 100 year flood plain and will not need to be to be anchored down.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker, R.S. No. 3588

Date

9-11-24

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

Cell (210) 414-6603

hoyt@landstewardshipservices.com



ON-SITE SEWAGE FACILITY DESIGN CRITERIA



Brian and Leslie Krause

All tanks must have inspection or cleanout ports located on the tank top over all inlet and outlet devises. Each inspection or cleanout port must be offset to allow for pumping of the tank. The ports may be configured in any manner as long as the smallest dimension of the opening is at least 12 inches, and large enough to provide for maintenance and equipment removal. All inspection and cleanout ports shall have riser over the port openings, which extend to 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

The risers shall have inside diameters which are equal to or larger than the inspection or cleanout ports. Risers must be permanently fastened to the tank lid or cast into the tank. The connection between the riser and the tank lid must be watertight. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be removed with specialized tools, a cover having a minimum net weight of 29.5 kilograms (65 pounds) set into a recess of the tank lid, or another means approved by the executive director. Risers and riser caps exposed to sunlight must have ultraviolet light protection. Risers must be able to withstand the pressures created by the surrounding soil.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker, R.S. No. 3588

Date

Land Stewardship Services, LLC, 124 Bristow Way, Boerne, Texas 78006

Cell (210) 414-6603

hoyt@landstewardshipservices.com



RECEIVED

By Brenda Ritzen at 8:29 am, Mar 11, 2025

LAND STEWARDSHIP SERVICES

124 Bristow Way Boerne, Texas 78006

March 9, 2025

Brenda Ritzen Comal County Environmental 195 David Jonas Drive New Braunfels, Texas 78132

RE: permit 116459, 2060 Bella Vista, Canyon Lake, Texas 78070

Dear Brenda.

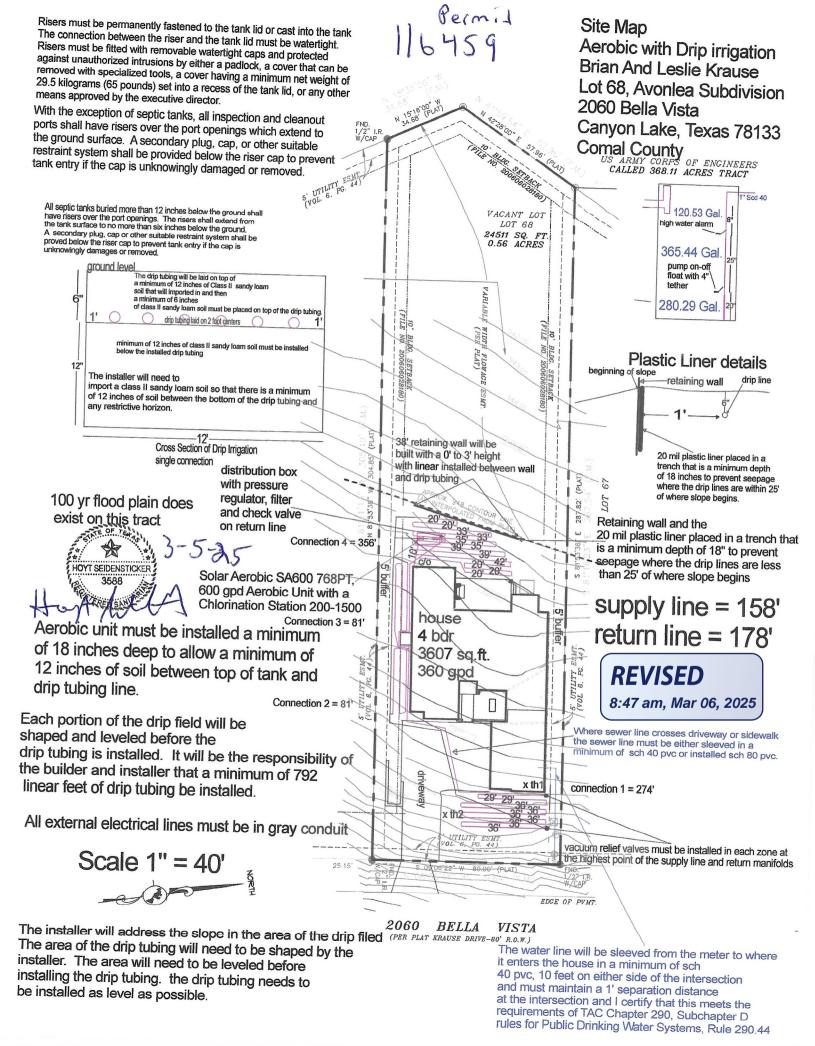
I am requesting the variance for the placement of a drip disposal drain field to be within 25' of a slope where seeps may occur. This variance is requested due to limited space for a house, driveway, aerobic unit and drip disposal field outside of the 948-contour line. Equivalent protection with respect to the requirements of TAC chapter 285.91, Table X will be maintained by adding a retaining wall and impermeable liner consisting of 20 ml plastic liner where the drain field is less than 25' of the slope. The addition of the impermeable liner will prevent seepage from occurring where the drain field is within 25' of the slope.

In my professional opinion this variance will not pose a threat to the environment or public health.

If you have any questions, please give me a call at (210) 414-6603 or email at hoyt@landstewardshipservices.com

Sincerely,

Hoyt Seidensticker, RS 3588



ON-SITE SEWAGE FACILITY DESIGN CRITERIA

REVISED8:13 am, Aug 11, 2023

Brian Krause

It is in my professional opinion that since the drip tubing will be totally buried it will not increase the height of the flood.

It is in my professional opinion that the system will not create contamination during a flood, because the effluent will have gone through an aerobic treatment unit and filtered through soil.

All drip tubing and components of the distribution system will be capped, sealed and also be totally buried.

It is in my professional opinion that flooding will not damage the system or erode the system. The system will be installed as far away from the lake water as possible and not in the direct flow of floodwaters. All components will be buried and grass must be established and maintained over the entire spray area.

The aerobic treatment unit will be installed outside of the 100 year flood plain and will not need to be to be anchored down.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

Date

19/10/2023

ronaldzunker@gmail.com

281-782-6060

Bryan W. Shaw, Ph.D, Chairman Buddy Garcia, Commissioner Carlos Rubinstein, Commissioner Mark R. Vickery, P.G., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 24, 2010

Mr. Alfred Hayes National Wastewater Systems, Inc. 6754 Highway 90 East Lake Charles, LA 70615

RE: Approval of the National Wastewater Systems, Solar Air, SA IITX-600 768PT, SAIITX-800, SAIITX-800 854PT and SAIITX-800 1000PT

Dear Mr. Hayes,

The staff of the Texas Commission on Environmental Quality has completed our review of the Gulf Coast Testing (GCT) reports on the subject products. An engineering review for compliance with provisions of NSF/ANSI Standard 40 was conducted by GCT for each unit. Based on the GCT reports, the units have been approved for use in the State of Texas. Approval of the units, along with approval of the training materials was completed August 24, 2010.

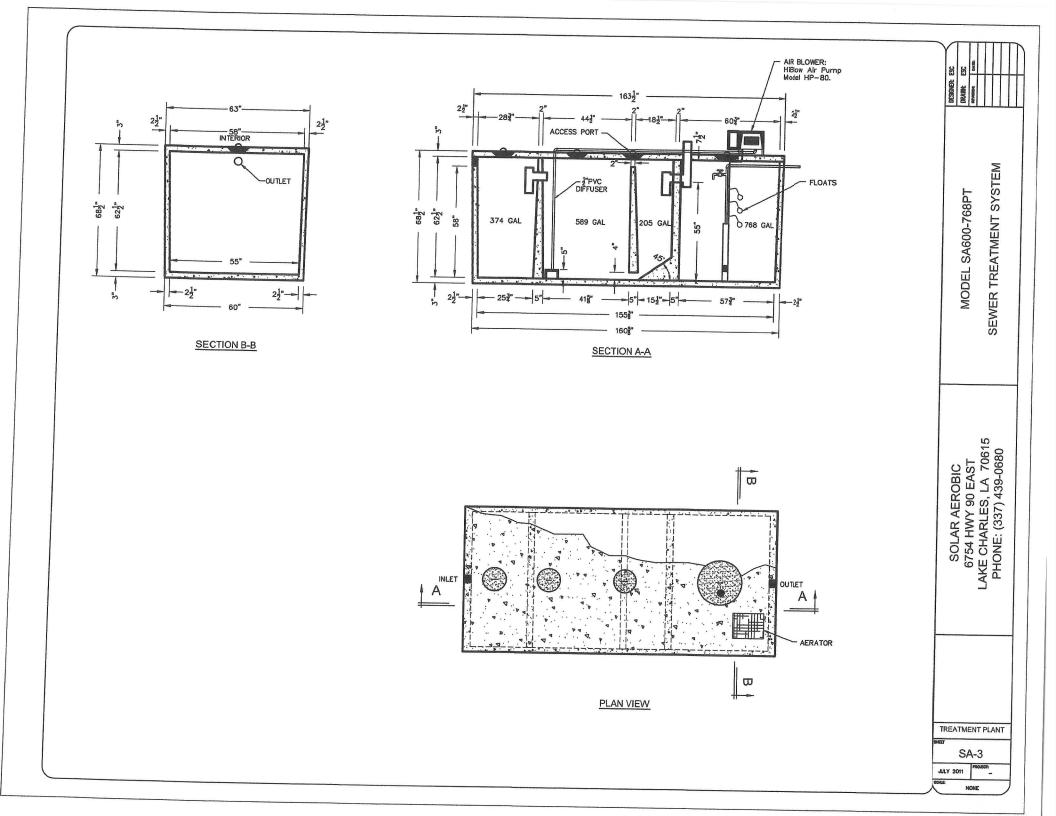
The approved product listing will note that all the subject units include pretreatment tanks so no separate pretreatment tank is required. Also, all subject units, except the SAIITX-800 include a pump tank.

This letter will serve as verification of your approval until the SA II-600 GPD is listed on the TCEQ website. If you have any questions concerning our review, please contact me by telephone at (512) 239-2150, by E-mail at mprice@tceq.state.tx.us or by facsimile at (512) 239-6390. When responding by mail, please be sure to use mail code MC-235.

Sincerely,

Michael Price

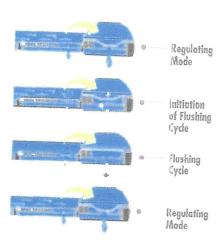
On-site Wastewater Team





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-deaning 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 slaped 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



Root Sale

- 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*

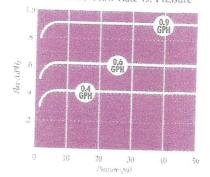
Common spacings: 12", 18", 24"* Recommended filtration: 120 mesh

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

Arkal 1" Super Filter

Catalog No. 1102 0____

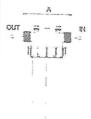
Features

- 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

Inlet/outlet diameter	1" BSPT (male) 25.0 mm – nominal diameter	1" NPT (male)	
The same 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

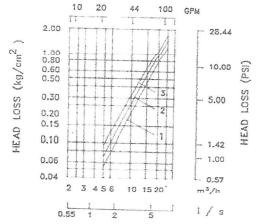
Blue (400 micron / 40 mesh)

Yellow (200 micron / 80 mesh) Red (130 micron / 120 mesh)

Black (100 micron /140 mesh)

Green (55 micron)

Head Loss Chart





Inline Pressure Regulators

Control Zone Components

Regulates outlet pressure to 30 psi, 40 psi, or 50 psi, can be installed above or below ground.



More

Click to Enlarge Photos



Features

Models

Specifications



PSI-L30X-075 3/4" 30 psi (2.1 bar) regulator for low flow (red label)



PSI-M30X-075 3/4" 30 psi (2.1 bar) regulator for medium flow (yellow label)



PSI-M40X-075 3/4" 40 psi (2.8 bar) regulator for medium flow (yellow label)

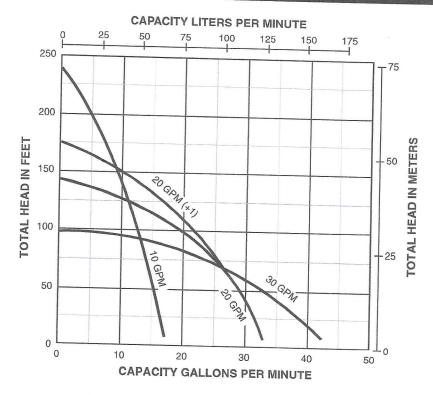


PSI-M40X-100 1" 40 psi (2.8 bar) regulator for medium flow



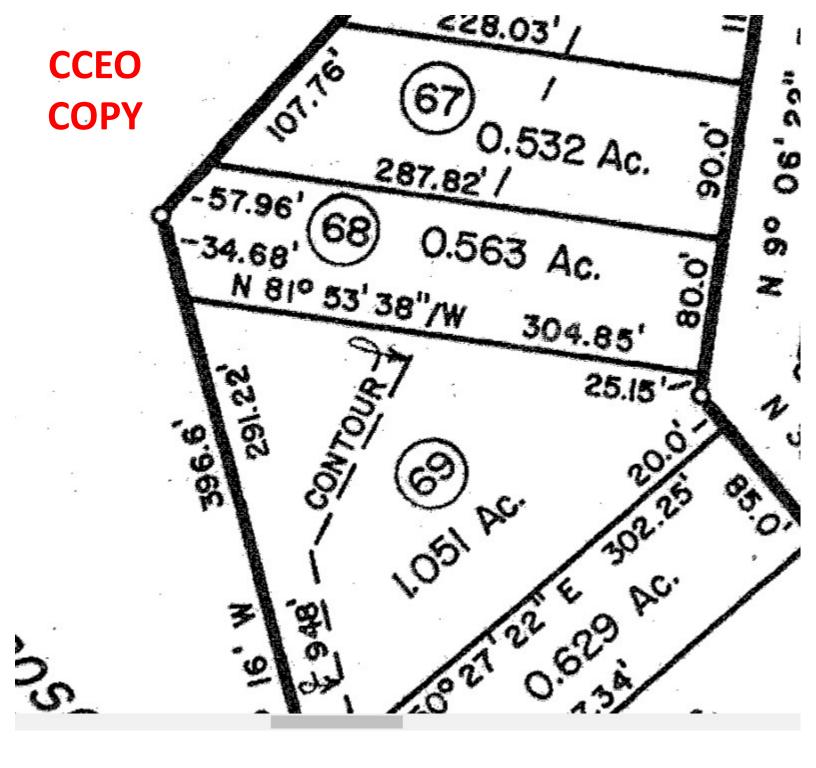
4" multi-stage submersible pump

PUMP PERFORMANCE



PUMP PERFORMANCE (C Pump Flow Rate Model (GPM)		PSI											
	(GPM)	0	10	20	30	40	50	60	70	80	90	100	710
10DOM05221	10			15.0	13.7	12.7	11.5	10.2	8.4			100	110
10D0M05121	10			15.0	13.7	12.7				6.5	4.3	1.0	
20D0M05221	20						11.5	10.2	8.4	6.5	4.3	1.0	
20D0M05121			-	30.0	26.0	21.5	14.2	4.4					
	20			30.0	26.0	21.5	14.2	4.4					-
30DOM05221	30		38.5	33.3	25.8	16							-
30DOM05121	30		38.5	33.3	25.8	16							
20DOM05221+1	20 + 1		5015	30	27.5		20		T. All San				
20DOM05121+1						24	20	13.5	6				
ZODOMOJIZI+II	20 + 1			30	27.5	24	20	13.5	6				

6.89	7.
6.89	7
	-



From: Ritzen,Brenda
To: "Hoyt Seidensticker"

Cc: Olvera, Brandon; Jason Gallas; Carl Nelson; Jeff Jay

Subject: RE: permit 116459

Date: Tuesday, March 11, 2025 8:33:00 AM

Attachments: <u>image001.png</u>

Hoyt,

This has been added to the permit file.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Hoyt Seidensticker < hoyt@landstewardshipservices.com>

Sent: Sunday, March 9, 2025 10:39 PM **To:** Ritzen, Brenda < rabbjr@co.comal.tx.us>

Cc: Olvera, Brandon < Olverb@co.comal.tx.us>; Jason Gallas < jasong@omnicustoms.com>; Carl

Nelson <carln@omnicustoms.com>; Jeff Jay <jajconstruction1@gmail.com>

Subject: Re: permit 116459

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content

- Comal IT

here is my variance request for permit 116459

thanks

Hoyt Seidensticker hoyt@landstewardshipservices.com

Please note my new email and mailing address

Land Stewardship Services, LLC 124 Bristow Way

From: Ritzen, Brenda

To: <u>Hoyt Seidensticker; Olvera, Brandon; Jason Gallas; Carl Nelson; Jeff Jay</u>

Subject: RE: permit 116459

Date: Thursday, March 6, 2025 9:34:00 AM

Attachments: image001.png

Hoyt,

Include a variance request for the use of the retaining wall as your equivalent protection from the steep slope.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Hoyt Seidensticker <hoyt@landstewardshipservices.com>

Sent: Wednesday, March 5, 2025 12:44 PM

To: Ritzen,Brenda <rabbjr@co.comal.tx.us>; Olvera,Brandon <Olverb@co.comal.tx.us>; Jason Gallas <jasong@omnicustoms.com>; Carl Nelson <carln@omnicustoms.com>; Jeff Jay

<jajconstruction1@gmail.com>

Subject: permit 116459

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- Comal IT

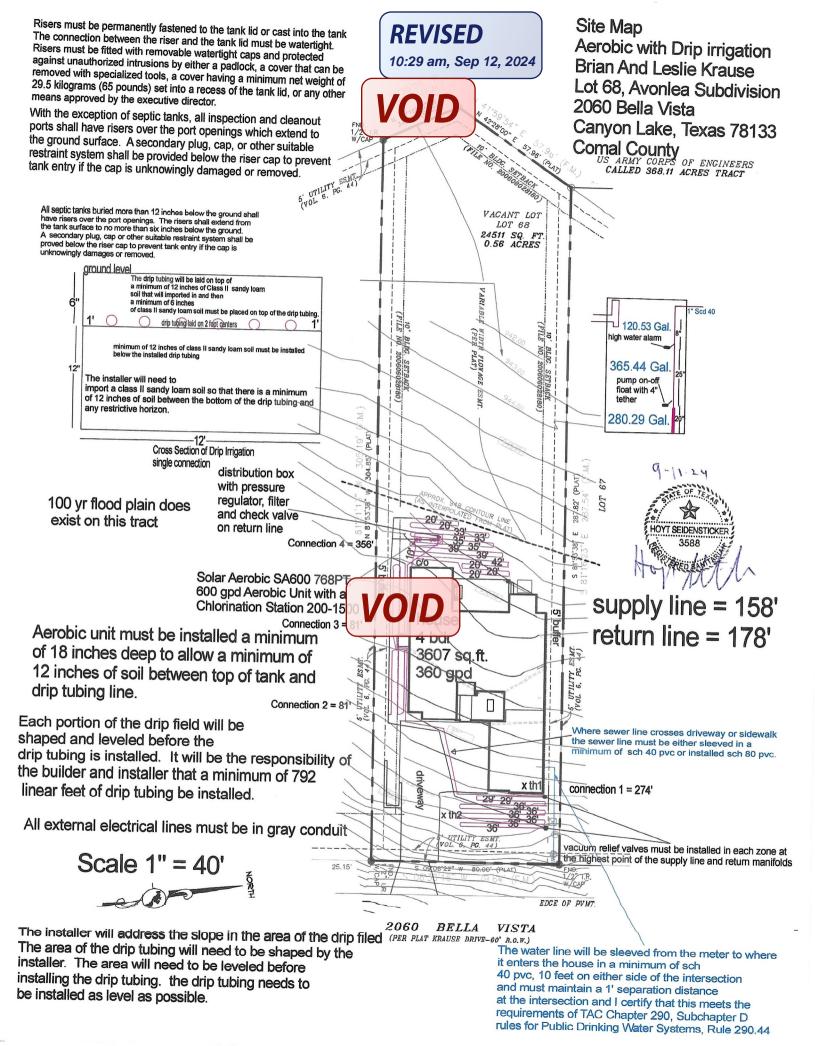
Here is the revised site map showing the liner to be installed to prevent seepage.

thanks

Hoyt Seidensticker hoyt@landstewardshipservices.com

Please note my new email and mailing address

Land Stewardship Services, LLC



From: Ritzen, Brenda
To: "Hoyt Seidensticker"

Cc: <u>Jeff Jay; Olvera, Brandon; Jason Gallas; Carl Nelson; Boyd, Robert</u>

Subject: RE: permit 116459

Date: Thursday, September 12, 2024 1:24:00 PM

Attachments: <u>image001.png</u>

Hoyt,

The permit file has been updated. The installer may proceed.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Hoyt Seidensticker < hoyt@landstewardshipservices.com>

Sent: Thursday, September 12, 2024 10:49 AM **To:** Ritzen, Brenda rabbjr@co.comal.tx.us

Cc: Jeff Jay <jajconstruction1@gmail.com>; Olvera,Brandon <Olverb@co.comal.tx.us>; Jason Gallas

<jasong@omnicustoms.com>; Carl Nelson <carln@omnicustoms.com>; Boyd, Robert

<boydro@co.comal.tx.us>
Subject: Re: permit 116459

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

oops forgot to include in previous file

here it is

thanks

Hoyt Seidensticker hoyt@landstewardshipservices.com

Please note my new email and mailing address

From: <u>Ritzen, Brenda</u>

To: "Hoyt Seidensticker"; Jeff Jay

Cc: Olvera, Brandon; Jason Gallas; Carl Nelson; Boyd, Robert

Subject: RE: permit 116459

Date: Thursday, September 12, 2024 10:35:00 AM

Attachments: Page from 116459.pdf

image001.png

Hoyt,

The attached page must be updated to match the revised planning materials.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Hoyt Seidensticker <hoyt@landstewardshipservices.com>

Sent: Wednesday, September 11, 2024 11:50 PM

To: Ritzen, Brenda <rabbjr@co.comal.tx.us>; Jeff Jay <jajconstruction1@gmail.com>

Cc: Olvera, Brandon < Olverb@co.comal.tx.us>; Jason Gallas < jasong@omnicustoms.com>; Carl

Nelson <carln@omnicustoms.com>; Boyd, Robert <boydro@co.comal.tx.us>

Subject: permit 116459

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Brenda and Jeff,

I have made several changes to this septic system design. All components will be outside of the 948 elevation line.

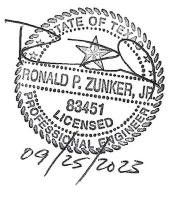
Please let me know if you have any questions or concerns.

thanks

Hoyt Seidensticker

REVISED 1:45 pm, Sep 26, 2023

Dial raid L	esile Krause	
Gallons per Day	360	
Application Rate (gal/sq. ft/day)	0.25	
Square footage required	1440	
Feet between Lines	2	
Feet between emitters	2	
Number of zones	1	
Linear feet of dripline	751	
Number of emitters	375.5	
Linear Feet of Tubing Per Zone	751	
Type of emitters	Pressure compensating	
Determine drip field pressure (psi)	35	
Feet of head pressure	80.85	
gph/emitter	0.61	
gallons per minute per Zone	3.8	
gallons per hour	229.055	
minutes per dose	13	
Minutes Per Day Per Zone	94	
gallons per day	360	
Doses per Zone	7	
Total Doses per Day	7	
Time Between Doses in Hours	3.4	
Total Run time in Minutes	94.30049551	
Number of Connections to Manifold	2	
Linear feet of dripline per connection	375.5	
minimum pump capacity (gpm)	VOID 3.8	
header pipe size (inches)	1	
Pressure loss in 100 ft. pipe (psi)	1.58	
Friction head in 100 ft. of pipe (ft of head)	3.6498	
Static head	0.0100	
height from pump to top of tank (ft.)	4	
Elevation increase (ft.)	1	
Total static head (ft.)	5	
Friction head		
equivalent length of fittings (ft.)	1	
Distance from pump to field (ft.)	57	
Total equivalent length of pipe (ft.)	58	
total effective head (ft.)	2.12	
head required at drip field (ft.)	80.85	
Head loss through filters or headworks (ft.)	23.10	
head loss through valves (ft.)	3.47	
Minimum total head (ft.)	109.53	









WWW.CCEO.ORG

9/22/2023 2:28 PM Aerobic with Drip Irrigation System

ON-SITE SEWAGE FACILITY





The area of the drip tubing will need to be shaped by the installer. The area will need to be leveled before installing the drip tubing. The drip tubing needs to be installed as level as possible. A minimum of 12 inches of class II sandy loam will be imported and leveled. The drip lines will be laid on top of the class II imported minimum of 12 inches of soil. Then a minimum of 6 inches of class II sandy loam must be placed over the drip lines.

Then entire area where the drip lines have been installed or disturbed, must be sodded with a type of vegetative cover or seeded curlex installed or seeded then a curlex blanket laid over the area or an equivalent county approved method of cover that is considered a high water user prior to system operation.

A maintenance contract for the entire system must be established at time of installation with someone holding a license to maintain the install aerobic system.

The aerobic treatment unit will be installed outside of the 100 year flood plain and will not need to be to be anchored down.

All design criteria is in accordance with TCEQ, hite 30, TAC chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 29, 2016). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

281-782-6060

ZEE Consulting, PLLC

ronaldzunker@gmail.com

Date

9/22/2023 2:28 PM Aerobic with Drip Irrigation System

Property Information:

ON-SITE SEWAGE FACILITY



720

751

	House Information	
St. Address: 2060 Bella Vista	No. of Podroome	
City: Canyon Lake State: Texas		***************************************
Mganayang ang ang ang ang ang ang ang ang ang	Sq. footage (Approx.):3607	
Zip code: <u>78133</u>	Water Supply: put	hlio
Predicted Quantity of Sewage (Q)	Gallons per day 360	JIIC
Water Saving Devises in Home (y/n):yes	Supply Line from House	-
Gallons/day (Q):360	Length of supply line (approx. ft.):5	
Greywater included (yes/no):yes	Type of supply line: SCH 40 PVC	
Rate of Adsorption (Ra)	Size of Supply line (in): 3 or 4	History
Application rate (g/sq. ft): 0.25	Supply Line to Drip Irrigation Manifold	
Minimum Adsorptive Area (sq. ft.): 1440		
the state of the s	Length of supply line (approx. ft):57	
Absorptive area installed (sq.ft.)1502	Type of supply line: Purple SCH 4	IO.
analai a I I i.t.		-

Class 1 Aerobic Unit:: Solar Air SA-600 768PT Pump tank total capacity (gal): ___ 768 Required linear foot of tubing: Chlorination: n/a of tubing installed: Pump Switch operation: Float system

Dosing cycle quantity (gals):

Required size of aerobic unit:

Pretreatment Tank (gallons):

Varied

600 gpd

378

Cycling time: night time

Pump size and capacity: Schaefer E-Series 20 GPM

All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

281-782-6060

Aerobic Unit

ZEE Consulting, PLLC

Size of supply and flush line (in):

Date

ronaldzunker@gmail.com

Effective Immediately: If any change(s) are made that require a revision to this design, a \$200.00 fee will be assessed. This includes,

9/22/2023 2:28 PM Aerobic with Drip Irrigation System

ON-SITE SEWAGE FACILITY DES VOID FRIA Brian VOID Frause



A class 1 residential aerobic treatment unit will be designed for this home. Wastewater from the home will flow to the pretreatment tank of the aerobic unit. From the pretreatment tank, effluent will flow to the treatment unit. Treated effluent will then flow to the pump tank for disposal through subsurface drip irrigation. All warning systems shall be installed with the aerobic unit.

Field loading Rates and Distribution

All flow from the treatment compartment of the aerobic unit will flow into a pump tank.

The pump tank will be equipped with a submersible pump. The pump will dose the single zone.

A 100 micron effluent filter must be installed in the supply line to prevent introduction of sediments & suspended organic materials into the drip tubing. Vacuum relief valves need to be installed in each zone at the highest point of both the supply and return manifolds. Ball valves must be installed on the return lines for pressure adjustment.

The drip lines will be laid on two foot centers and parallel with the contour of the land. The drip lines will not be laid perpendicular with the slope. The drip lines will then be covered with a minimum of 6 inches of the material.

Drip lines are to be placed on 2 ft centers and tied **VOID** we manifold at one end and a return manifold which is run back to the pump tank for continuous flushing of the

drip lines. A pressure gage and control valve on the return line at the pump tank is to be set at 35 psi, which maintains a minimum required pressure of the drip emitters. The drip lines will be flushed continuously when the pump doses the drip field. The drip lines will be continuously flushed.

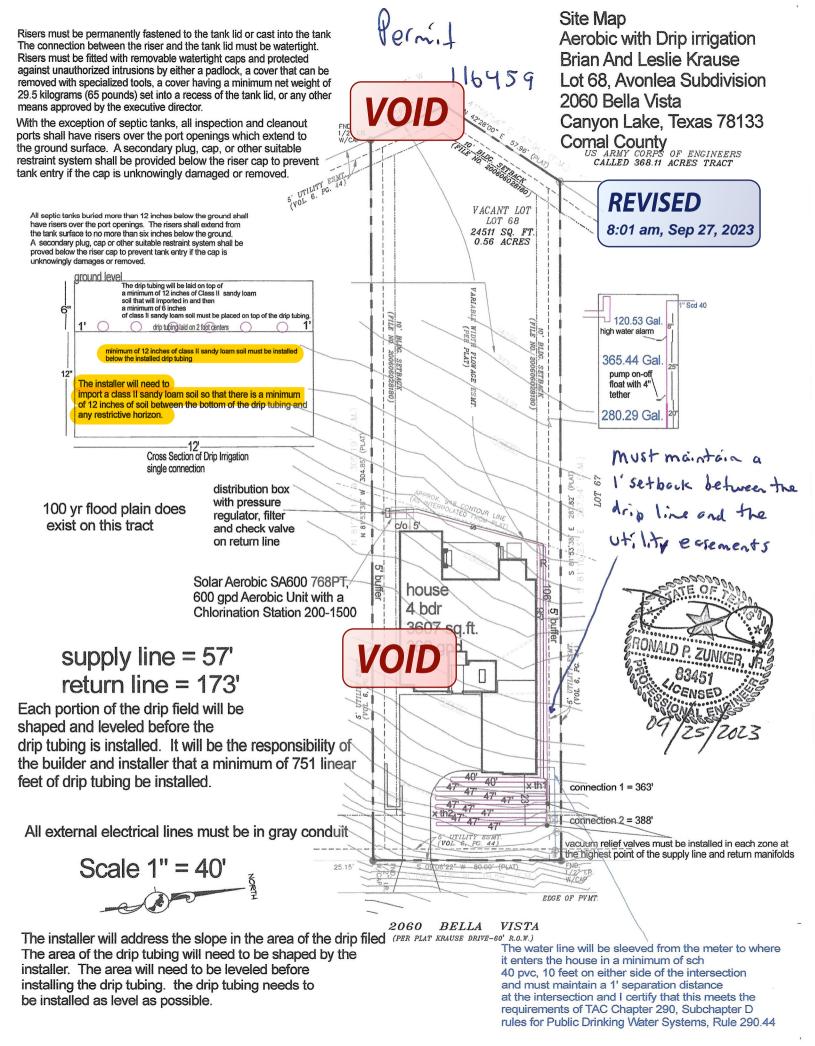
All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

ronaldzunker@gmail.com

281-782-6060



From: Ritzen, Brenda

To: <u>Hoyt Seidensticker</u>; <u>kbrausebl@sbcglobal.net</u>

Cc: <u>Jason Gallas; Carl Nelson; Olvera, Brandon; Jeff Jay; Ronald Zunker</u>

Subject: RE: 2060 Bella Vista deficiencies, Permit 116459

Date: Wednesday, September 27, 2023 8:38:00 AM

Attachments: <u>116459.pdf</u>

image001.png

Hoyt:

A copy of the Permit to Construct is attached. Please note the condition on the permit to mark the 948 line.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Hoyt Seidensticker <hoyt@landstewardshipservices.com>

Sent: Wednesday, September 27, 2023 5:45 AM **To:** Ritzen, Brenda <rabbjr@co.comal.tx.us>

Cc: Jason Gallas <jasong@omnicustoms.com>; Carl Nelson <carln@omnicustoms.com>; Olvera,Brandon <Olverb@co.comal.tx.us>; Jeff Jay <jajconstruction1@gmail.com>; Ronald Zunker

<ronaldzunker@gmail.com>

Subject: Re: 2060 Bella Vista deficiencies, Permit 116459

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Comal IT

here is the revised site map addressing the setback from the utility easement

thanks

Hoyt Seidensticker

From: Ritzen, Brenda **Hoyt Seidensticker** To:

Jason Gallas; Carl Nelson; Olvera, Brandon; Jeff Jay; Ronald Zunker Cc:

Subject: RE: 2060 Bella Vista deficiencies, Permit 116459 Date: Tuesday, September 26, 2023 1:56:00 PM

Attachments: image001.png

Hoyt,

Ventify the required 1 ft. setback from the drip field to the easements.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Hoyt Seidensticker <hoyt@landstewardshipservices.com>

Sent: Tuesday, September 26, 2023 11:43 AM To: Ritzen, Brenda <rabbjr@co.comal.tx.us>

Cc: Jason Gallas <jasong@omnicustoms.com>; Carl Nelson <carln@omnicustoms.com>;

Olvera, Brandon < Olverb@co.comal.tx.us>; Jeff Jay < jajconstruction 1@gmail.com>; Ronald Zunker

<ronaldzunker@gmail.com>

Subject: Re: 2060 Bella Vista deficiencies, Permit 116459

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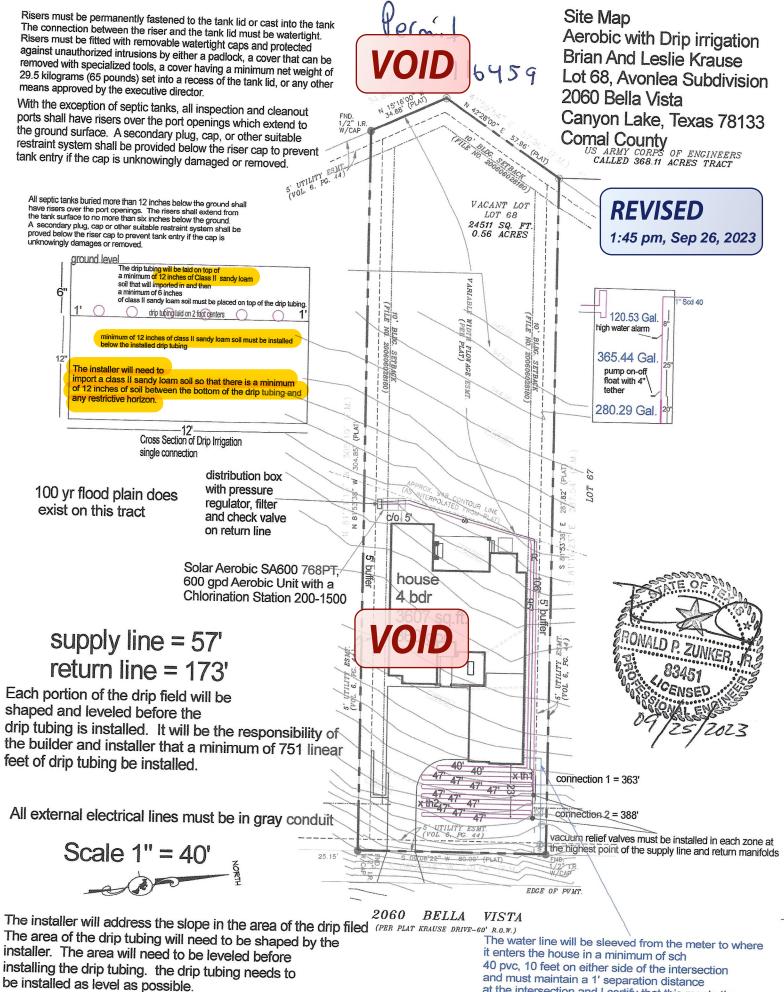
Comal IT

here is an updated septic system design revising the drip field location, permit 116459

thanks

Hoyt Seidensticker hoyt@landstewardshipservices.com

Please note my new email and mailing address



and must maintain a 1' separation distance at the intersection and I certify that this meets the requirements of TAC Chapter 290, Subchapter D rules for Public Drinking Water Systems, Rule 290.44 From: <u>Ritzen, Brenda</u>

To: "Hoyt Seidensticker"; Jason Gallas
Cc: Carl Nelson; Olvera,Brandon; Jeff Jay

Subject: RE: 2060 Bella Vista deficiencies, Permit 116459

Date: Friday, August 11, 2023 3:00:00 PM

Attachments: <u>image001.png</u>

Hoyt,

The following information is still needed:

The subdivision name on the design needs to be corrected.

The US Army Corps of Engineers (USACE) Flowage Easement is located at the 948 contour line. Revise the design accordingly. Be advised that you must provide documentation of approval from the USACE before the Permit to Construct will be issued..

A portion of the tanks are shown within the floodplain. Provide documentation on how tank flotation will be eliminated.

4. Revise as requested and resubmit.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Hoyt Seidensticker < hoyt@landstewardshipservices.com>

Sent: Thursday, August 10, 2023 9:38 PM

To: Jason Gallas <jasong@omnicustoms.com>; Ritzen, Brenda <rabbjr@co.comal.tx.us>

Cc: Carl Nelson <carln@omnicustoms.com>; Olvera,Brandon <Olverb@co.comal.tx.us>; Jeff Jay

<jajconstruction1@gmail.com>

Subject: Re: 2060 Bella Vista deficiencies

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

From: Ritzen, Brenda

To: "kbrausebl@sbcglobal.net"; "carln@omnicustoms.com"

Subject: Permit 116459

Date: Thursday, August 10, 2023 10:12:00 AM

Attachments: <u>image001.png</u>

Re: Brian & Leslie Ann Krause

Avonlea Subdivision Lot 68

Application for Permit for Authorization to Construct an On-Site Sewage Facility (OSSF)

Property Owner / Agent :

I have reviewed the planning materials for the referenced permit submittal and found the following information is needed before I can continue processing this permit:

- 1. The subdivision name on the permit application and within the planning materials does not match the subdivision name described on the recorded deed.
- Submit a more legible copy of the design.
- 3. Show the location of the Corps of Engineers Flowage Easement on the design.
- 4. It appears that the system is located within the Corps of Engineers Flowage Easement. The permit application must be corrected and you will need to submit approval from the Corps before the Permit to Construct will be issued.
- Remove the notation that no flood plain exists on this tract.
- 6. Additional comments may be necessary once a more legible copy of the design plan is received.
- 7. Revise as needed and resubmit.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

8/10/2023 1:25 PM Aerobic with Drip Irrigation System

ON-SITE SEWAGE FACILITY



REVISED

8:13 am, Aug 11, 2023

360

900

1440

Property Information:

St. Address: 2060 Bella Vista

City: Canyon Lake State: Texas

Zip code: 78133

Predicted Quantity of Sewage (Q)

Water Saving Devises in Home (y/n): yes

> Gallons/day (Q): 360

Greywater included (yes/no):

House Information

No. of Bedrooms:

Sq. footage (Approx.): 3607

Water Supply: _____ public Gallons per day

Supply Line from House

Length of supply line (approx. ft.):____5

Type of supply line: SCH 40 PVC

Size of Supply line (in): 3 or 4

Rate of Adsorption (Ra)

Application rate (g/sq. ft): 0.2

Minimum Adsorptive Area (sq. ft.): 1800

Absorptive area installed (sq.ft.) 2880 Supply Line to Drip Irrigation Manifold

Length of supply line (approx. ft): 64

Type of supply line: Purple SCH 40

Size of supply and flush line (in): ____1

Required linear foot of tubing:

Linear feet of tubing installed:

08/10/2023

Aerobic Unit

Required size of aerobic unit: 600 gpd

Pretreatment Tank (gallons): ____ 378

Class 1 Aerobic Unit:: Solar Air SA-600 768

Pump tank total capacity (gal):

768

Chlorination: n/a

Pump Switch operation: Float system

Dosing cycle quantity (gals):

Varied

Cycling time:

night time

Pump size and capacity: Schaefer E-Series 20 GPM

All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

ronaldzunker@gmail.com

281-782-6060

Effective Immediately: If any change(s) are made that require a revision to this design, a \$200.00 fee will be assessed. This includes,

but not limited to, change(s) in the house size, number of bedrooms, location of house or one type of system to another.

8/10/2023 1:25 PM Aerobic with Drip Irrigation System



REVISED 8:13 am, Aug 11, 2023

A class 1 residential aerobic treatment unit will be designed for this home. Wastewater from the home will flow to the pretreatment tank of the aerobic unit. From the pretreatment tank, effluent will flow to the treatment unit. Treated effluent will then flow to the pump tank for disposal through subsurface drip irrigation. All warning systems shall be installed with the aerobic unit.

Field loading Rates and Distribution

All flow from the treatment compartment of the aerobic unit will flow into a pump tank.

The pump tank will be equipped with a submersible pump. The pump will dose the single zone.

A 100 micron effluent filter must be installed in the supply line to prevent introduction of sediments & suspended organic materials into the drip tubing. Vacuum relief valves need to be installed in each zone at the highest point of both the supply and return manifolds. Ball valves must be installed on the return lines for pressure adjustment.

The drip lines will be laid on two foot centers and parallel with the contour of the land. The drip lines will not be laid perpendicular with the slope. The drip lines will then be covered with a minimum of 6 inches of the material.

The area of the drip tubing will need to be shaped by the installer. The area will need to be leveled before installing the drip tubing. The drip tubing needs to be installed as level as possible.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

ronaldzunker@gmail.com

281-782-6060

08/16/2023

8/10/2023 1:25 PM Aerobic with Drip Irrigation System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA Bri VOID

REVISED 8:13 am, Aug 11, 2023

If the drip tubing is trenched in, a minimum of 6 inches, then the material that came out of the trench may be placed in the trench over the drip tubing as long as it is free of rocks. If the material that comes out of the trench is full of rocks, then a class II sandy loam or class III clay loam must be used to cove the drip tubing. If the drip lines are laid on top of the native soil and the native soil is scarified then a minimum of 6 inches of class II sandy loam or class III clay loam must be placed over the drip lines.

Drip lines are to be placed on 2 ft centers and tied into a pressure manifold at one end and a return manifold which is run back to the pump tank for continuous flushing of the drip lines. A pressure gage and control valve on the return line at the pump tank is to be set at 35 psi, which maintains a minimum required pressure of the drip emitters. The drip lines will be flushed continuously when the pump doses the drip field. The drip lines will be continuously flushed.

Then entire area where the drip lines have be volved disturbed, must be sodded with a type of vegetative cover or an equivalent covery approved method of cover that is considered a high water user prior to system operation.

A maintenance contract for the entire system must be established at time of installation with someone holding a license to maintain the install aerobic system.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

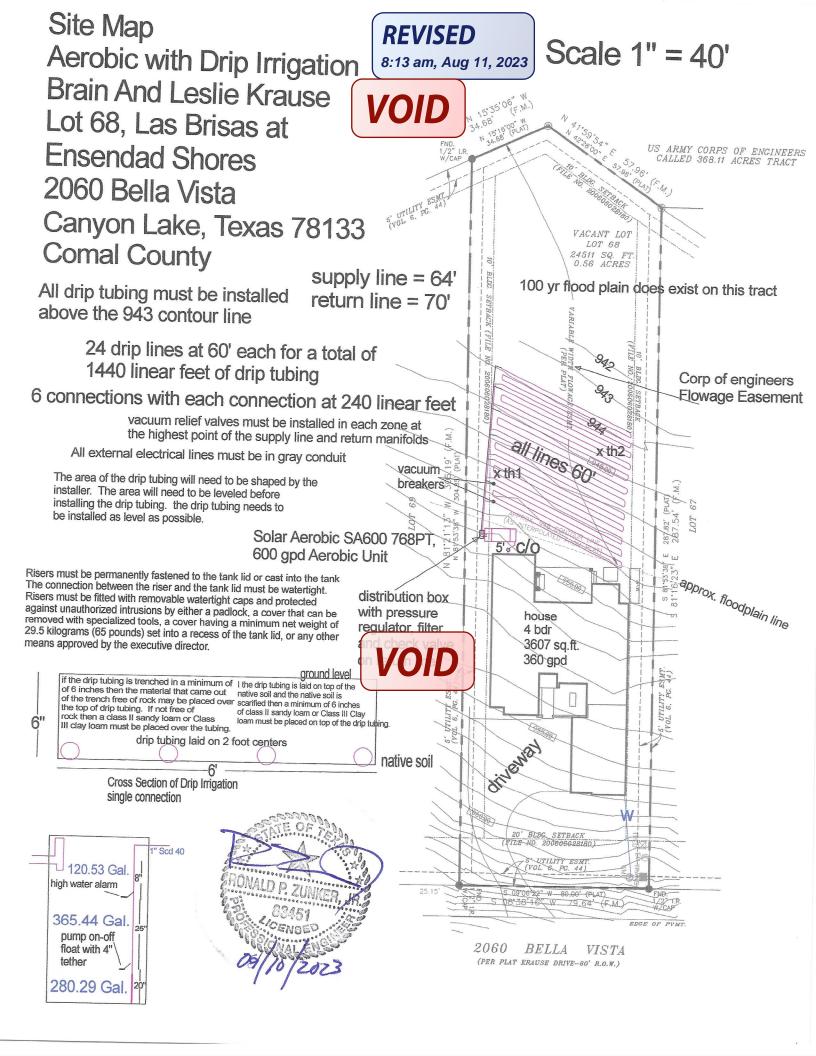
Dal

ronaldzunker@gmail.com

10/2023

281-782-6060

REVISED Scale 1'' = 40'Site Map 8:37 am, Aug 21, 2023 Aerobic with Drip Irrigation Brain And Leslie Krause US ARMY CORPS OF ENGINEERS Lot 68, Avonlea Subdivision CALLED 368.11 ACRES TRACT 2060 Bella Vista Canyon Lake, Texas 78133 ACANT LOT DQT 68 **Comal County** 24511 24511 SQ. F1 0.56 ASRES supply line = 64' 100 yr flood plain does exist on this tract All drip tubing must be installed return line = 70' above the 943 contour line 24 drip lines at 60' each for a total of Corp of engineers (948 1440 linear feet of drip tubing contour line) Flowage Easement 6 connections with each connection at 240 linear feet vacuum relief valves must be installed in each zone at the highest point of the supply line and return manifolds all lines 60' All external electrical lines must be in gray conduit The aerobic unit will be insalled with a five foot buffer vacuum **Ent** X from the property line and a five foot buffer from the breakers house. The aerobic unit will be installed outside of the Corp of Engineers flowage easement (948 contour line) 5° c/o 948 Solar Aerobic SA600 768PT 600 gpd Aerobic Unit approx. floodplain line Risers must be permanently fastened to the tank lid or cast into the tank The connection between the riser and the tank lid must be watertight. distribution box Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be with pressure house removed with specialized tools, a cover having a minimum net weight of reg 4 bdr 29.5 kilograms (65 pounds) set into a recess of the tank lid, or any other 3607 sq.ft. means approved by the executive director. **VOID** 360 gpd if the drip tubing is trenched in a minimum of 6 inches then the material that came out native soil and the native soil is of the trench free of rock may be placed over scarified then a minimum of 6 inches of class II sandy loam or Class III Clay if the drip tubing is trenched in a minimum of 1 the drip tubing is laid on top of the loam must be placed on top of the drip tub III clay loam must be placed over the tubing. drip tubing laid on 2 foot centers native soil Cross Section of Drip Irrigation single connection The area of the drip tubing will need to be shaped by the installer. The area will need to be leveled before installing the drip tubing. the drip tubing needs to 20' BLDG SETBACK FILE NO. 200506028180) be installed as level as possible. " Scd 40 5 UTILITY ESMI (VOL. 6, PG. 44) 120.53 Gal. high water alarm 365.44 Gal. EDGE OF PVMT RONALD P. ZUNKER pump on-off 2060 BELLA VISTA float with 4' (PER PLAT KRAUSE DRIVE-60' R.O.W.) tether 280.29 Gal.





Signature of Owner

ON-SITE SEWAGE FACILITY APPLICATION

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

			MINIOCEO ORG
Date June 2, 2025		Permit Number	116459
1. APPLICANT / AGENT INFORMATION	OID	350300000	
Owner Name Brian Krause + Leste Am Krau		Carl Nelson	
Mailing Address 2 Falling Leaf	Agent Address	14603 Huebner	Sto 3/03
City, State, Zip Friendswood, TX 77546	City, State, Zip		
Phone # 409-218-5181	Phone #	San Antonio, 7 210-378-3845	IX 78230
Email krausebl@sbcglobal.net		carln@omnicusto	oms.com
2. LOCATION	199	APPART SILING SAMELAN ART THE STATE OF THE SILING SAMELAN SAME	
Subdivision Name Las Brisas at Ensenada Shores	Ur	nit Lot 6	88 Block
Survey Name / Abstract Number		and the second s	preage
Address 2060 Bella Vista			
3. TYPE OF DEVELOPMENT			LIP 70100
Single Family Residential			
Type of Construction (House, Mobile, RV, Etc.) House			
Number of Bedrooms			
Indicate Sq Ft of Living Area _ 3 6 0 7			
Non-Single Family Residential			
(Planning materials must show adequate land area for doubling to	he required land neede	ed for treatment units a	ind disposal area)
Type of Facility			,
Offices, Factories, Churches, Schools, Parks, Etc Indica	te Number Of Occup	pants	
Restaurants, Lounges, Theaters - Indicate Number of Sea			
Hotel, Motel, Hospital, Nursing Home - Indicate Number of	Beds		99/44/00/menten de constituire de constituire de constituire de constituire de constituire de constituire de c
Travel Trailer/RV Parks - Indicate Number of Spaces			
Miscellaneous			
Estimated Cost of Construction: \$_675,520 (Ctrusture Only)		
Is any portion of the proposed OSSF located in the United State	Structure Only)	onin anno (110 A OF) (1	
Yes No (If yes, owner must provide approval from USACE for	nronosed OSSE improve	monts within the USACE) file	owage easement?
Source of Water Public Private Well	proposed Odor improve	anents within the OSACE	nowage easement)
4. SIGNATURE OF OWNER			
By signing this application, I certify that: The completed application and all additional information submitted doe facts. I certify that I am the property owner or I possess the appropriate property. Authorization is hereby given to the permitting authority and designated site/soil evaluation and inspection of private sewage facilities I understand that a permit of authorization to construct will not be issue by the Comal County Flood Damage Prevention Order	e land rights necessary I agents to enter upon d until the Floodplain A	to make the permitted the above described particularly administrator has perform	improvements on said roperty for the purpose of rmed the reviews require
I affirmatively consent to the online posting/public release of my e-mail	address associated wit	th this permit applicatio	n, as applicable.

6/5/23





195 DAVID JONAS DR NEW BRAUNFELS TX 78132 (230) 608-2090

WWW.DCLG URG
Planning Materials & Site Evaluation as Required Completed Ry
System Description Aerobic with Drip Irrigation
Size of Septic System Required Based on Planning Materials & Soil Evaluation
rank Size(s) (Gallons) An a coo A
Gallons Per Day (As Per TCEQ Table III) 360
(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.)
Is the property located over the Edwards Rochards 7
(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCFO approved WRAP (
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.)
If there is a second with all provisions of the existing WPAP.)
If there is no existing WPAP, does the proposed development activity require a TCEO approved WPAP? Yes No be issued for the proposed OSSF with the OSSF design will comply with all provisions of the proposed OSSF.
(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? X Yes No
Is there an existing TCEQ approval CZP for the property? Yes Y 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 peticity
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No 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:
By signing this application. I certify that:
- The information provided above is true and correct to the best of my knowledge.
- Laffirmatively consent to the online positing public release of my e-mail address associated with this permit application, as applicable.
Signature of Designer RONALD P. ZULICR, JR. 07 /12 /2023
100 4/00 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

7/11/2023 11:48 PM Aerobic with Drip Irrigation System



Property Ir	formation:
St. Address	: 2060 Bella Vista

Zip code: 78133

Rate of Adsorption (Ra)

Aerobic Unit

Absorptive area installed (sq.ft.)

Required size of aerobic unit:

Pretreatment Tank (gallons):

Pump tank total capacity (gal):

Predicted Quantity of Sewage (Q) Water Saving Devises in Home (y/n):

2	1.1	
dress: 2060 Bella Vista	House Information	
City: Canyon Lake State: Texas	No. of Bedrooms:	4
code: 78133	Sq. footage (Approx.):	3607
sted Quantity of Sewage (Q) Saving Devises in Home (A)	Water Supply: Gallons per day	public 360
Gallons/day (Q):360	Supply Line from House	
Greywater included (yes/no): yes	Length of supply line (approx. ft.):_	5
703	Type of supply line:	SCH 40 PVC
f Adsorption (Ra)	Size of Supply line (in):	3 or 4
Application rate (g/sq. ft): 0.2 mum Adsorptive Area (sq. ft.): 1800 tive area installed (sq.ft.) 2880 c Unit ed size of aerobic unit: 600 gpd atment Tank (gallons): 378 Class 1 Aerobic Unit:: Solar Air SA-600 768PT ank total capacity (gal): 768	Supply Line to Drip Irrigation Man Length of supply line (approx. ft): Type of supply line: Properties of supply and flush line (in): Size of supply and flush line (in):	64 urple SCH 40
Chlorination: n/a	Linear feet of tubing installed:	The second secon
ump Switch operation: Float system	o	1440
g cycle quantity (gals): Varied		

Dosing cycle quantity (gals): Varied Cycling time: night time Pump size and capacity: Schaefer E-Series 20 GPM

Pump Switch operation: Float system

Minimum Adsorptive Area (sq. ft.):

All changes or modifications made to design must be approved by the below signed designer.



Ron Zunker, PE

ZEE Consulting, PLLC

281-782-6060

ronaldzunker@gmail.com

Effective Immediately: If any change(s) are made that require a revision to this design, a \$200.00 fee will be assessed. This includes,

but not limited to, change(s) in the house size, number of bedrooms, location of house or one type of system to another.

//11/2023 11:48 PM Aerobic with Drip Irrigation System



A class 1 residential aerobic treatment unit will be designed for this home. Wastewater from the home will flow to the pretreatment tank of the aerobic unit. From the pretreatment tank, effluent will flow to the treatment unit. Treated effluent will then flow to the pump tank for disposal through subsurface drip irrigation. All warning systems shall be installed with the aerobic unit.

Field loading Rates and Distribution

All flow from the treatment compartment of the aerobic unit will flow into a pump tank. The pump tank will be equipped with a submersible pump. The pump will dose the single zone.

A 100 micron effluent filter must be installed in the supply line to prevent introduction of sediments & suspended organic materials into the drip tubing. Vacuum relief valves need to be installed in each zone at the highest point of both the supply and return manifolds. Ball valves must be installed on the return lines for pressure adjustment.

The drip lines will be laid on two foot centers and parallel with the contour of the land. The drip lines will not be laid perpendicular with the slope. The drip lines will then be covered with a minimum of 6 inches of the material.

The area of the drip tubing will need to be shaped by the installer. The area will need to be leveled before installing the drip tubing. The drip tubing needs to be installed as level as possible.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under the second control of the second control of

All changes or modifications made to design must

al operating conditions.

e below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

281-782-6060

07/12/2023

Date

ronaldzunker@gmail.com

7/11/2023 11:48 PM Aerobic with Drip Irrigation System



If the drip tubing is trenched in, a minimum of 6 inches, then the material that came out of the trench may be placed in the trench over the drip tubing as long as it is free of rocks. If the material that comes out of the trench is full of rocks, then a class II sandy loam or class III clay loam must be used to cove the drip tubing. If the drip lines are laid on top of the native soil and the native soil is scarified then a minimum of 6 inches of class II sandy loam or class III clay loam must be placed

Drip lines are to be placed on 2 ft centers and tied into a pressure manifold at one end and a return manifold which is run back to the pump tank for continuous flushing of the drip lines. A pressure gage and control valve on the return line at the pump tank is to be set at 35 psi, which maintains a minimum required pressure of the drip emitters. The drip lines will be flushed continuously when the pump doses the drip field. The drip lines will be continuously

Then entire area where the drip lines have been installed or disturbed, must be sodded with a type of vegetative cover or an equivalent county approved method of cover that is considered a high water user prior to system operation.

A maintenance contract for the entire system must be established at time of installation with someone holding a license to maintain the install aerobic system.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions.

All changes or modifications made to design mus

re below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

281-782-6060

ronaldzunker@gmail.com

ONALD P. ZUNK

7/11/2023 11:48 PM Aerobic with Drip Irrigation System

ON-SITE SEWAGE FACILITY DESIGN C Brian Kr VOID

It is in my professional opinion that since the drip tubing will be totally buried it will not increase the height of the flood.

It is in my professional opinion that the system will not create contamination during a flood, because the effluent will have gone through an aerobic treatment unit and filtered through soil.

All drip tubing and components of the distribution system will be capped, sealed and also be totally buried.

It is in my professional opinion that flooding will not damage the system or erode the system. The system will be installed as far away from the lake water as possible and not in the direct flow of floodwaters. All components will be buried and grass must be established and maintained over the entire spray area.

The aerobic treatment unit will be installed outside of the 100 year flood plain and will not need to be to be anchored down.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Ron Zunker, PE

ZEE Consulting, PLLC

281-782-6060

VOID

Data

ronaldzunker@gmail.com

Site Map Aerobic with Drip Irrigation Scale 1" = 40' Brain And Leslie Krause Lot 68, Las Brisas at **Ensendad Shores** 2060 Bella Vista Canyon Lake, Texas 78133 Comal County supply line = 64' All drip tubing must be installed return line = 70' above the 943 contour line 100 yr flood plain does exist on this tract 24 drip lines at 60' each for a total of 1440 linear feet of drip tubing 6 connections with each connection at 240 linear feet vacuum relief valves must be installed in each zone at the highest point of the supply line and return manifolds All external electrical lines must be in gray conduit x th2 The area of the drip tubing will need to be shaped by the vacuum installer. The area will need to be leveled before breakers installing the drip tubing. the drip tubing needs to be installed as level as possible. Solar Aerobic SA600 768PT. 600 gpd Aerobic Unit 5'. C/O Risers must be permanently fastened to the tank lid or cast into the tank The connection between the riser and the tank lid must be waterlight. approx. floodplain line Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be distribution box removed with specialized tools, a cover having a minimum net weight of with pressure 29.5 kilograms (65 pounds) set into a recess of the tank lid, or any other house regulator, filter means approved by the executive director. 4 bdr and check valve 3607 sq.ft. on return line 360 gpd if the drip tubing is trenched in a minimum of 1 the drip tubing is faid on top of the of 6 inches then the material that came out native soil and the netive soil is find the ternch free of rock may be placed over scarffed then a minimum of 6 inches the top of drip tubing. If not free of 1 class II sandy loam or Class III class III sandy loam or Class III class III class III sandy loam must be placed over the tubing. scarified then a minimum of 6 inches of class II sandy loam or Class III Clay learn must be placed on top of the drip to 6" drip tubing laid on 2 foot centers native soil Cross Section of Drip Irrigation single connection high water alarm 365.44 Gal pump on-off float with 4" tether P周目1

STC 545836 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: October 14, 2019

Grantor: MICHELE M. DICKSON and LETICIA ELIA GARZA

Grantee: BRIAN WAYNE KRAUSE and LESLIE ANN KRAUSE

Grantee's Mailing Address: 2 Falling Leaf Court, Friendswood, TX 77546

Consideration: Cash and other valuable consideration.

Property (including any improvements):

Lot 68, AVONLEA SUBDIVISION, Comal County, Texas, according to plat thereof recorded in Volume 8, Page(s) 150-151, Map and Plat Records of Comal County, Texas;

Reservations from Conveyance: NONE.

Exceptions to Conveyance and Warranty: Any and all restrictions, covenants, conditions, reservations, mineral leases, interests, agreements and easements, shown of record in the hereinabove mentioned County and State and to all zoning laws, regulations and ordinances of municipal and/or governmental authorities, if any, but only to the extent that they are still in effect relating to the hereinabove described property, and further subject to all stand by fees, taxes and assessments by any taxing authority for the current and subsequent years, and subsequent taxes and assessments for prior years due to changes in land usage or ownership and all matters reflected on the hereinabove mentioned plat.

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 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.

MICHELE M. DICKSON

TETICIA ELLA GARZA

ACKNOWLEDGMENT

STATE OF TEXAS

COUNTY OF TYOWIS

00 00 00

This instrument was acknowledged before me on the 14 day of October, 2019, by MICHELE M. DICKSON and LETICIA ELIA GARZA.

Notary Public in and for the Stage of Texas

MARY E. HAUGHT My Notary ID # 277319 Expires September 1, 2022

AFTER RECORDING RETURN TO:

LESLIE ANN KRAUSE BRIAN WAYNE KRAUSE 2 Falling Leaf Court Friendswood, TX 77546

PREPARED IN THE LAW OFFICES OF:

THE HOUGHAM LAW FIRM 5152 Fredericksburg Road, Ste. 280A San Antonio, Texas 78229 Telephone No. (210) 375-7570 oly line = 64' rn line = 70'

100 yr flood plain does exist on this tract

il of '40 linear feet each zone at all lines 60 turn manifolds vacuum Zone breakers ME A600 768PT. 5 C/O : Unit approx. Noodplain line distribution box with pressure house regulator, filter and check valve 4 bdr 3607 sq ft. 360 gpd on return line _ I native soil





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

116459

	Date Received	Initials	Permit Number
Instructions: 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". Thi	s OSSF Development Application
OSSF Permit			
Completed Application for Permit for Authorization to	Construct an On-Site	Sewage Fa	cility and License to Operate
Site/Soil Evaluation Completed by a Certified Site Ev			
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 consist
Required Permit Fee - See Attached Fee Schedule			
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System			
Recorded Certification of OSSF Requiring Main	ntenance/Affidavit to the	Public	
Signed Maintenance Contract with Effective Da	ate as Issuance of Licer	ise to Oper	ate
I affirm that I have provided all information required fo constitutes a completed OSSF Development Application	r my OSSF Developm on.	ent Applica	ation and that this application
Signature of Applicant	6	15/2	Date
Check No. Receipt No.	(Missi		ETE APPLICATION rcled, Application Refeused)