staller Name:	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:

N-	December 41	A may	Citotiana	Net	1 at 1	2 m d 1	7 mal 1
No.	Description SEPTIC TANK Tank(s) Clearly	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	Marked SEPTIC TANK IsingleTank, 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)(ii) (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) (B)285.32(b)(1) (A)285.32(b)(1)(E)(iv)				
1	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)				
	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						
12							
	PUMP TANK Volume Installed						
1	AEROBIC TREATMENT UNIT Size Installed						
14							
	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
15	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)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				
18			203.33(a)(2)				

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation	Allowei	Citations	Notes	13t 1113p.	Ziiu iiisp.	Sid ilisp.
	DIST COAL STOTENT DITP ITTIGATION		20E 22(a)(2)(A) (E)				
			285.33(c)(3)(A)-(F)				
19	DISPOSAL SYSTEM Soil						
20	Substitution		285.33(d)(4)				
20	DISPOSAL SYSTEM Pumped						
	Effluent		285.33(a)(4) 285.33(a)(3)				
			285.33(a)(1)				
21			285.33(a)(2)				
	DISPOSAL SYSTEM Gravelless Pipe						
	·		285.33(a)(3)				
			285.33(a)(2)				
			285.33(a)(4)				
22			285.33(a)(1)				
22	DISPOSAL SYSTEM Mound		205 22/ 1/51				
			285.33(a)(3) 285.33(a)(1)				
			285.33(a)(1) 285.33(a)(2)				
23			285.33(a)(4)				
23	DISPOSAL SYSTEM Other						
	(describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
24			263.33(C)(4)				
	DRAINFIELD Absorptive Drainline 3" PVC						
	or 4" PVC						
25							
	DRAINFIELD Area Installed						
26	DRAINFIELD Level to within 1 inch						
	per 25 feet and within 3 inches						
	over entire excavation		285.33(b)(1)(A)(v)				
27							
	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation Separation						
	DRAINFIELD Depth of Porous Media						
	DRAINFIELD Type of Porous Media						
28							
	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
29			(-/\-/\-/				
	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End						
	Plates w/Splash Plate, Inspection						
	Port & Closed End Plates in Place		285.33(c)(2)				
	(per manufacturers spec.)						
30							
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate Separation Distance between		285.33(d)(1)(C)(i)				
	Trenches						
31							

	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						

				-			
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						



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

Permit Number: 118774

Issued This Date: 07/29/2025

This permit is hereby given to: JACK E. & WHITNEY HENDERSON

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

149 OAK SUMMIT

CANYON LAKE, TX 78133

Subdivision: CANYON CREEK ESTATES

Unit: 1

Lot: 30

Block: 0

Acreage: 0.2300

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 County requirements.

Call (830) 608-2090 to schedule inspections.





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

			118774		
	Date Received	Initials	Permit Number		
nstructions: Place a check mark next to all items that apply. For items Checklist <u>must</u> accompany the completed application.	s that do not apply, place	e "N/A". This	OSSF Development Application		
DSSF Permit					
Completed Application for Permit for Authorization to	o Construct an On-Site	Sewage Fac	ility and License to Operate		
Site/Soil Evaluation Completed by a Certified Site E	valuator or a Profession	al Engineer			
Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.					
Required Permit Fee - See Attached Fee Schedule					
Copy of Recorded Deed					
Surface Application/Aerobic Treatment System					
Recorded Certification of OSSF Requiring Ma	intenance/Affidavit to th	e Public			
Signed Maintenance Contract with Effective D	ate as Issuance of Lice	nse to Opera	ate		
affirm that I have provided all information required footnotes a completed OSSF Development Applicat		nent Applica	ation and that this application		
180	06	5/21/2	025		
Signature of Applicant			Date		
COMPLETE APPLICATION Check No. Receipt No.	(Mis		ETE APPLICATION ircled, Application Refeused)		
	L	. .	Revised: September 2019		





ON-SITE SEWAGE FACILITY APPLICATION

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

WWW CCEO ORG

Date Ma	y 19, 2025		Permit Nu	mher	118	3774	
	SENT INFORMATION		i onime ivu				
Owner Name	JACK E. HENDERSON & WHITNEY HENDERSON	Agent Name		GREG JO	HNSO	N, P.E.	
Mailing Address	c/o 167 OAK SUMMIT	Agent Address	-	170 HOL	LOW	OAK	
City, State, Zip	CANYON LAKE TEXAS 78133	City, State, Zip	NEW I	BRAUNF	ELS TI	EXAS 7	8132
Phone #	512-749-7410	Phone #		830-9	05-277	78	
Email	scot.rapid@gmail.com	Email	gre	gjohnson	ре@уа	hoo.cor	n
2. LOCATION							
Subdivision Name	CANYON CREEK ESTATES	U	nit <u>l</u>	_Lot	30	Bloc	k
Survey Name / Abs	tract Number			Ac	reage		
			N LAKE		TX	Zip	78133
Number of Be Indicate Sq F Non-Single Fa (Planning mate Type of Facili Offices, Facto Restaurants, Hotel, Motel,	amily Residential rials must show adequate land area for doubling the ty	e required land need e Number Of Occu s	upants				
Yes No	f Construction: \$(\$240,000 (\$100 the proposed OSSF located in the United State (If yes, owner must provide approval from USACE for public Private Well Rainwater Co	roposed OSSF improv					
4. SIGNATURE OF							
By signing this applica The completed application is certify that I approperty. Authorization is here site/soil evaluation and I understand that a public the Comal County		land rights necessa agents to enter upo d until the Floodplain	ry to make the n the above de Administrator	permitted escribed p has perfo	improv roperty rmed th	rements for the ne review	on said purpose of vs required
in hotel	Ik. de		,			- h	- .
Signature of Owner	or A.	Date ,	13/202	· <u>フ</u> 			Page 1 of
(1.00	the de	6/13	12020				and January 20



ON-SITE SEWAGE FACILITY APPLICATION

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

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E
System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons)FUJI CE5 & AK750 PUMP Absorption/Application Area (Sq Ft)
Gallons Per Day (As Per TCEQ Table III)240 (Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)
Is the property located over the Edwards Recharge Zone? Yes No (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) Is there an existing TCEQ approved WPAP for the property? Yes No
(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
Is there at least one acre per single family dwelling as per 285.40(c)(1)? Yes No
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No (If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zone? 🛛 Yes 🔲 No
Is there an existing TCEQ approval CZP for the property? Yes No (if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No (if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the approved by th
If yes, indicate the city: GREG W. JOHNSON
FIRM #2585
By signing this application, I certify that: - The information provided above is true and correct to the best of my knowledge. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable
Signature of Designer May 21, 2025 Date Page 2 of 2

AFFIDAVIT

THE COUNTY OF COMAL STATE OF TEXAS

CERTIFICATION OF OSSF REQUEENG MAINTENANCE

According to Texas Commission on Ravironmental Quality Rules for Ou-Site Sewage Facilities (OSSF's), this document is filed in the Dood Records of County, Texas.

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

11

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code 5285.91(12) will be installed on the property described as (heart legal description):

1 UNITED ASSESSMENT BLOCK 30	
IF NOT IN SUBDIVISION:ACREAGE	SURVEY
The proporty is owned by (insert owner's fall nas	IACK E. HENDERSON & WHITNEY HENDERSON
This OSSF must be covered by a continuous main the initial two-year service policy, the owner of an residence shall either obtain a maintenance contra personally.	acrobic treatment system for a single family
Upon sale or transfer of the above-described prop transferred to the buyer or new owner. A copy of obtained from the Count County Engineer's Office	the planning materials for the OSSF can be
WITNESS BY HAND(S) ON THIS 2 DAY OF	<u> 1000 20 25 </u>
Fackertherden	JACK R. HENDERSON
with the day	WHITNEY HENDERSON
Owner(a) a guartero(a)	Owner (s) Printed name (s)
JACK R. & WHITNEY HENDERSON SWORN TO	D AND SURSCRIBED BEFORE ME ON THIS 13. DAY OF
A	Filed and Recorded
Notary Public Signature	Official Public Records
	Bobbie Koepp, County Clerk
ASIA VINTHAXAY NOTARY PUBLIC	Comal County, Texas
STATE OF TEXAS MY COMM. EXP. 10/18/28	06/19/2025 11:17:06 AM
NOTARY ID 136133371	MARY 1 Pages(s)
	202506018646
	Battie Koepp

RECEIVED

By Brandon Olvera at 11:16 am, Jul 29, 2025



By Cody Young LLC

To:	JACK E. & WHITNEY HENDERSON	
	CANYON CREEK ESTATES, UNIT 1, LOT 30	
Site:	149 OAK SUMMIT, CANYON LAKE, TX 78133	
Cour	nty: COMAL	
Insta	aller: PAUL SWOYER SEPTICS	
Ager	ncy: COMAL (CCEO)	
Mfg.	/Brand: FUJI CE5	

Level 1 Contract

This service contract for the On-Site Sewage-facility, (OSSF), located at the site stated above. OSSF is to be inspected and serviced at regular intervals under a licensed provider. Special emergency service is to be provided within 48 hours of notification by the homeowner or the owner's agent. The initial contract is for (2) years from the date of final septic system inspection. Renewals shall be for a period of 2 years at the current rate and remain in effect for the specified dates listed. From FROM DATE OF until 2 YEARS FROM DATE OF LICENSE TO OPERATE

Contract price \$700

Service Program Includes:

- Regular site inspection at 4-month intervals for residential septic system.
- OSSF maintenance: check aerator components for proper operation, control panel, effluent pump, spray head/drip nozzle. Check Proprietary specific components. Check pumps, check spray heads, check, and clean any Filters, check bull run valves and any other valves. Flush drain field if needed.
- 3. Visual inspection of control panel, (when accessible).
- Labor expenses required at the home to maintain, repair, or remove any part of the control center or mechanical aerator to be returned for factory repair.
- Labor expenses required at the home to service, repair, or install any part of the control panel or aerator returned from factory.
- All maintenance reports will be emailed to the permitting authority & customer within 14 days of inspection.

RECEIVED

By Brandon Olvera at 11:16 am, Jul 29, 2025

Client Responsibilities:

- 1. Special service calls after the (at the 4-month intervals) stated in item #1.
- 2. BODs or TSS grab samples, (if needed).
- 3. Freight costs to and from factory, for component repair.
- Costs for replacing damaged or missing parts and repairing any equipment not under any specified warranty.
- 5. Pumping out any or all the OSSF by a licensed waste hauler.
- The Homeowner is responsible for maintaining the chlorinator and providing proper chlorine supply if required.
- Securing pets so that maintenance functions can be performed safely for the technician, and the pet.
 If pets are present in the yard, and the owner is not on site to secure the animals, it is necessary to
 cancel the maintenance.
- 8. Securing pets so that maintenance functions can be performed safely for the technician, and the pet. If pets are present in the yard, and the owner is not on site to secure the animals, and it is necessary to cancel the maintenance, there will be a \$75 trip charge.
- Insuring access to the property, always to the maintenance provider. (Gates, chains with locks, codes, etc.)

Miscellaneous Provisions

1.	I have the transfer that the province that the province of the	riting, within 30 days' notice. Contracts that are Authority having Jurisdiction, the Manufacturer of the
Homeo	eowner: bull bank	
Phone	e(512) /149-74/0Email:	
Mainte	enance Provider: Milo Young, License #MP0002338	
	13	

Septic Pumping & Maintenance by Cody Young

911 RR3404

Kingsland, TX 78639

(325)248-8740

ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	May 20, 2025	
Site Location:	CANYON CREEK ESTATES, UNIT 1, LOT 30	
Proposed Excavation Depth:	N/A	
	ons must be performed on the site, at opposite ends of the proposed disposal area. or dug pits must be shown on the site drawing.	

For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

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

SOIL BORING NUMBER SURFACE EVALUATION						
Depth (Feet)		Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 8	" пп	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 8"	BROWN
3						
4						
5						

SOIL BORING NUMBER SURFACE EVALUATION						
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	SAME		AS		ABOVE	
3						
5						

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

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

Date

Preliminary Field Check For Drip Systems

OSSF SOIL EVALUATION REPORT INFORMATION

Date		
Applicant Information:		
	Site Evaluator Inf	ormation:
Name: JACK E. & WHITNEY HENDERSON	Name: Greg W. Jol	hnson, P.E., R.S, S.E. 11561
Address: 167 OAK SUMMIT		low Oak
City: CANYON LAKE State: TEXAS	City: New Braun	fels State: Texas
Zip Code: 78133 Phone: (512) 749-7410	Zip Code: 78132	Phone & Fax (830)905-2778
•	-	
Property Location: CANYON CREE	EK Installer Info	rmation:
Lot 30 Unit 1 Blk Subd. ESTATES	Name:	
Street Address: 149 OAK SUMMIT	Company:	
City: CANYON CREEK ESTATES Zip Code: 781	33 Address:	
Additional Info.:	City:	State:
	Zip Code:	Phone
	•	•
Topography: Slope within proposed disposal area:		
Presence of 100 yr. Flood Zone:	YES NO_ X	
Existing or proposed water well in nearby area.	YES NO_X	<u>C</u>
Presence of adjacent ponds, streams, water impoundments	YES NO_X	<u> </u>
Presence of upper water shed	YES NO_ X	
Organized sewage service available to lot	YES NO X	

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

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

DATE

GREG W. JOHNSON

OF TEXT OF TE

FIRM #2585

AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR:
JACK E. & WHITNEY HENDERSON
c/o 167 OAK SUMMIT
CANYON LAKE, TX 78133

SITE DESCRIPTION:

Located in Canyon Creek Estates, Unit 1, Lot 30, at 149 Oak Summit, the proposed system will serve a three bedroom residence (1204 sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a Fuji CE5 500gpd aerobic plant containing a 198-gallon pretreatment tank, an aerobic treatment plant, and a 750-gallon pump tank containing a submersible (0.5 HP FPS E-series) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 2000sf. drip tubing field, with Netifim Bioline drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system by throttling a 1" ball valve to the pump tank. Solids caught in the disc filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 4" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). A minimum of 12" soil required between drip tubing and **rock/tank**. The field area will be covered with Curlex erosion control blankets and heavily seeded or sodded with grass prior to system startup. Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2023). This includes access limitation (<65lbs lid or hardware secured lid), inspection and cleanout ports shall have risers over the port openings which extend to a minimum of two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.

DESIGN SPECIFICATIONS:

Daily waste flow: 240 GPD Table III Pretreatment tank size: 198 Gal

Plant Size: Fuji CE5 500gpd (TCEQ Approved)

Pump tank size: AK750 Gal

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

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.) Total linear feet drip tubing: 1000' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.08 gpm

Pump Requirement (cont.): FPS - E Series 0.5 hp submersible well pump

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

MSV = 1.5 gpm PER LINE * 3 LINES = 4.5 GPM MIN FLOW RATE

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

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

MSV = 5.4 GPM

PIPE AND FITTINGS:

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

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29,2016)

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

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778



From: Greg Johnson < gregjohnsonpe@yahoo.com>

Sent: Thursday, July 17, 2025 1:53 PM

To: Olvera, Brandon < Olverb@co.comal.tx.us>

Subject: Re: 118774.pdf

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 I

THE WATER WELL IS 100' AND DOESN'T COME CLOSE TO THE PROPERTY IN QUESTION.

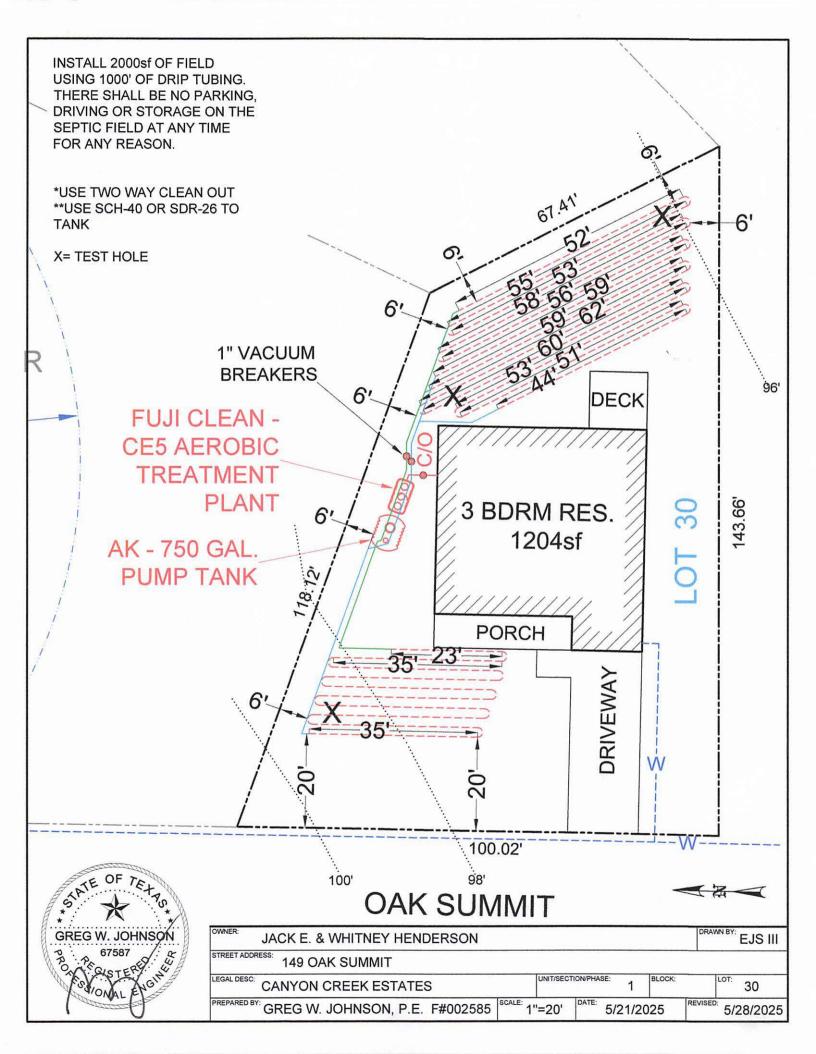
Send for Greg W. Johnson, P.E., R.S.)

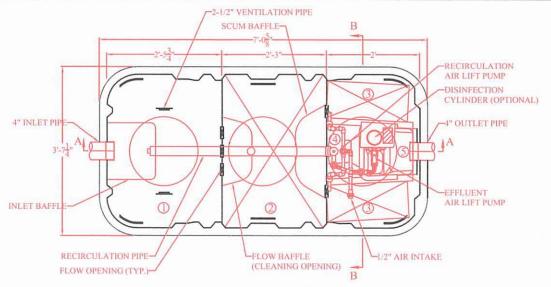
170 Hollow Oak

New Braunfels, TX 78132

Office/Fax (830) 905-2778

Email: gregjohnsonpe@yahoo.com

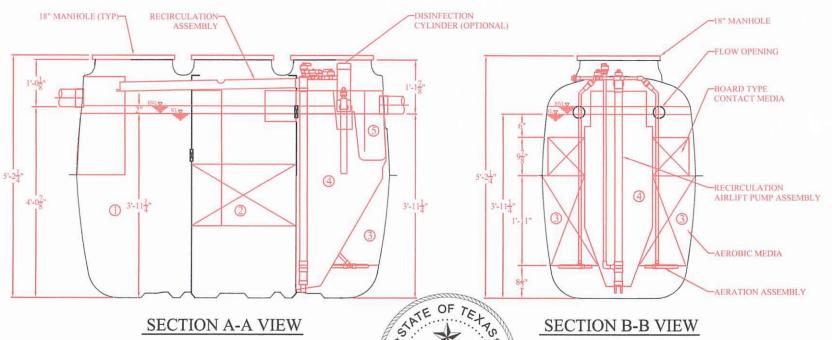




	CHAMBER	Volume (gal)
1	Sedimentation Chamber	198
2	Anaerobic Filtration Chamber	198
3	Aerobic Contact Filtration Chamber	95
4	Storage Chamber	44
3	Disinfection Chamber	4
	Total Volume	540

SPEC	CIFICATIONS		
Anaerobic Media	PP / PE	Filling Rate	31%
Board Type Aerobic Media	PVC/PP/PE	Filling Rate	16%
Aerobic Media	PP / PE	Filling Rate	55%
Blower	2.8 cfm		
Tank	FRP		
Piping	PVC / PP / PE		
Access Covers	Plastic / Cast Iron		
Disinfectant (Optional)	Chlorine Tablets		

PLAN VIEW



SECTION A-A VIEW

SECTION B-B VIEW



CE-5 Structural Drawing

DATE: 03/21/2014 SCALE: 1/2" = 1"

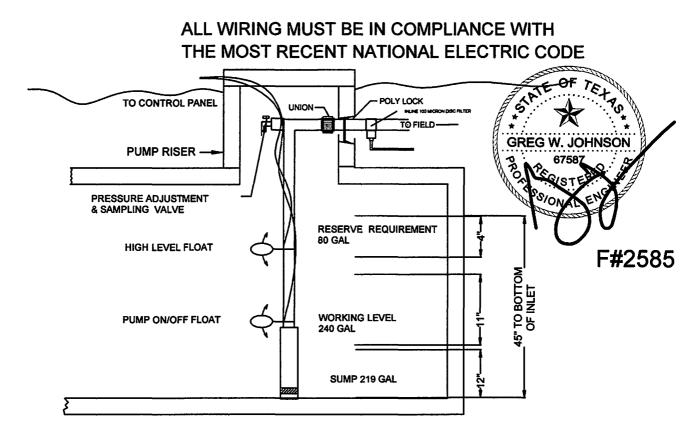
TANK NOTES:

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

Tightlines to the tank shall be SCH-40 PVC.

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

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



TYPICAL PUMP TANK CONFIGURATION AK750 GAL PUMP TANK

Arkal 1" Super Filter

Catalog No. 1102 0___

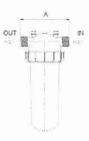
Features

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



Technical Data

	1" BSPT (male)	1" NPT (male)
Inlet/outlet diameter	25.0 mm – nominal diameter	
y and a second	33.6 mm – pipe diameter (O. D.)	and a
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
pH	5-11	5-11





Filtration Grades

Blue (400 micron / 40 mesh)

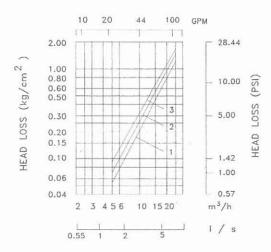
Yellow (200 micron / 80 mesh)

Red (130 micron / 120 mesh)

Black (100 micron /140 mesh)

Green (55 micron)

Head Loss Chart





PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

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

- 4 16 GPM (909 3634 L/hr) for 6 10 PSI models or
- 2 20 GPM (454 4542 L/hr) for 12 60 PSI models.

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

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

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

1-inch Female British Standard Pipe Thread (FBSPT)

Outlet

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

1-inch Female British Standard Pipe Thread (FBSPT)

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

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

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

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

Physical

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

Overall Length

5.2 inches (13.1 cm)

Overall Width

2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

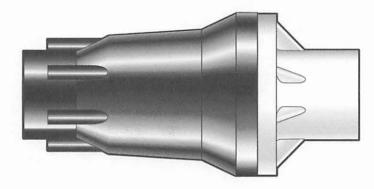
1" FBSPT x 1" FBSPT model

Overall Length

5.8 inches (14.6 cm)

Overall Width

2.5 inches (6.4 cm)



Please consult factory for applications outside of recommended guidelines.



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

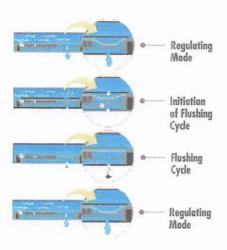
Model Numbers

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



Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



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

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



Product Advantages

The Proven Performer

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

Quality Manufacturing with Specifications Designed to Meet Your Needs

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

Long-Term Reliability

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

Cross Section of Bioline Dripperline



SECHFILTER

Root Safe

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



Applications

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

Specifications

Wall thickness (mil): 45*

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

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

Recommended filtration: 120 mesh

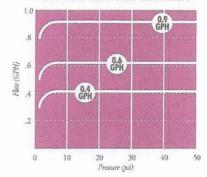
Inside diameter: .570*

Color: Purple tubing indicates non-potable

source

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

BIOLINE Flow Rate vs. Pressure





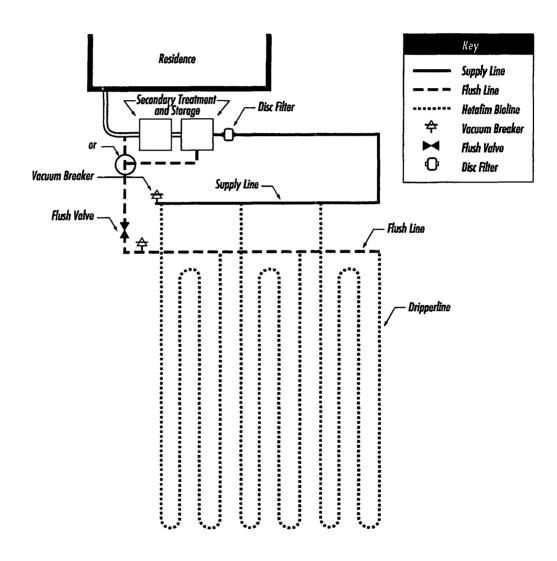
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

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

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





By Cody Young LLC

To	JACK E. & WHITNEY HENDERSON	
10		

CANYON CREEK ESTATES, UNIT 1, LOT 30

Site: 149 OAK SUMMIT, CANYON LAKE, TX 78133

County: COMAL

Installer PAUL SWOYER SEPTICS

Agen MAL (CC

Mfg./

Leve on t

This series of the On-Series SF), loss that the residual series to be inspected viced at regular in Series depth of the Special series of notification by the homeowner or the owner's agent. The initial contract is for (2) years from the date of final septic system inspection. Renewals shall be for a period of 2 years at the current rate and remain in effect for the specified dates listed. From LTO until 2 YEARS FROM LTO

Contract price \$700

- 1. Regular site inspection at 4-month intervals for residential septic system.
- OSSF maintenance: check aerator components for proper operation, control panel, effluent pump, spray head/drip nozzle. Check Proprietary specific components. Check pumps, check spray heads, check, and clean any Filters, check bull run valves and any other valves. Flush drain field if needed.
- 3. Visual inspection of control panel, (when accessible).
- 4. Labor expenses required at the home to maintain, repair, or remove any part of the control center or mechanical aerator to be returned for factory repair.
- Labor expenses required at the home to service, repair, or install any part of the control panel or aerator returned from factory.
- All maintenance reports will be emailed to the permitting authority & customer within 14 days of inspection.

Client Responsibilities:

- 1. Special service calls after the (at the 4-month intervals) stated in item #1.
- 2. BODs or TSS grab samples, (if needed).
- 3. Freight costs to and from factory, for component repair.
- Costs for replacing damaged or missing parts and repairing any equipment not under any specified warranty.
- 5. Pumping out any or all the OSSF by a licensed waste hauler.
- 6. The Homeowner is responsible for maintaining the chlorinator and providing proper chlorine supply if
- 7. Securing pets so that maintenance functions can be performed safely for the technician, and the pet If pets are present in the yard, and the owner is not on site to secure the animals, it is necessary to cancel the maintenance.
- 8. Securing pets so that maintenance functions can be performed safely for the technician, and the pet. If pets are present in the yard, and the owner is not on site to secure the animals, and it is necessary to cancel the maintenance, there will be a \$75 trip charge.
- nsuring acce e prope maintenar vider.

cellaned Pro ons

to vill include no me Authorized having acturer of the sy the other party.

Homeowner

/140-74/remail

Data. &

iviaintenance Provider: ivillo Young, License #iviP0002338

Septic Pumping & Maintenance by Cody Young

911 RR3404

Kingsland, TX 78639

(325)248-8740



RE: 149 Oak Summit Canyon Creek Estates 1 Lot 30

Dear Property Owner & Agent,

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



a. Comal county does not accept the abbreviation for License to Operate.

What is the well setback radius on the site plan? 100ft. or 150ft.?

3. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank You,

| Brandon Olvera | Designated Representative OS0034792 |

| t: 830-608-2090 | e: olverb@co.comal.tx.us |

Olvera, Brandon

From: Olvera, Brandon

Sent: Monday, July 21, 2025 2:16 PM

To: Greg Johnson **Subject:** RE: 118774.pdf



Thank You,



| Brandon Olvera | Designated Representative OS0034792 |

| t: 830-608-2090 | e: olverb@co.comal.tx.us |

From: Greg Johnson <gregjohnsonpe@yahoo.com>

Sent: Thursday, July 17, 2025 1:53 PM

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Subject: Re: 118774.pdf

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- Comal IT

THE WATER WELL IS 100° AND DOESN'T COME CLOSE TO THE PROPERTY IN QUESTION.

Send for Greg W. Johnson, P.E., R.S.)

170 Hollow Oak

New Braunfels, TX 78132

Office/Fax (830) 905-2778

Email: gregjohnsonpe@yahoo.com



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

GENERAL WARRANTY DEED

THE STATE OF TEXAS

8 KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

8

THAT ERNEST RAY SIMS, JR., a single man, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by JACK E. HENDERSON and WHITNEY HENDERSON, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

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

Lots 27, 28, 29 and 30, CANYON CREEK ESTATES, UNIT NO. 1, a subdivision in Comal County, Texas, according to the plat recorded in Volume 1, Page 96 of the Map and Plat Records of Comal County, Texas.

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

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

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

Grantor does hereby bind Grantor, Grantor's heirs, executors, administrators, and successors to warrant and forever defend, all and singular, the said premises unto the said Grantee, Grantee's heirs, executors, administrators, successors, and assigns against any person whomsoever claiming or to claim the same or any part thereof.

DATED this the <u>15</u> day of August, 2020.

ERNEST RAY SIMS, JR., a single man

STATE OF TEXAS

COUNTY OF Humas

This instrument was acknowledged before me on this the $\sqrt{5}$ day of August, 2020, by ERNEST RAY SIMS, JR.

Notary Public, State of Texas

GRANTEE'S ADDRESS:

251 Westin Hills New Braunfels, TX

237.deeds2 Old Republic Title)RS) GF# 9630 JAMES L. CASON, III
Notary Public, State of Texas
Comm. Expires 11-12-2021
Notary ID 11037255

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 08/18/2020 02:10:51 PM CHRISTY 2 Pages(s) 202006034376



