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)(A) 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	DDAINEIEID E						
	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		6 11.11		4.11	2.11	0.11
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	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)				
	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						
	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: 118731

Issued This Date: 07/15/2025

This permit is hereby given to: COLCAD PROPERTIES, LLC

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

1728 COLLEEN DR

CANYON LAKE, TX 78133

Subdivision: CANYON LAKE VILLAGE WEST

Unit: 1

Lot: 102

Block: 0

Acreage: 0.3200

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.





Signature of Owner

ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 <u>WWW.CCFO.ORG</u>

				Jakobahah	And Market Marke
Date 6/2	125	Pe	ermit N	umber11873	1
1. APPLICANT / AC	GENT INFORMATION				
Owner Name	COLCAD PROPERTIES LLC	Agent Name	GR	EG W. JOHNSON, P	E.
	c/o 23011 FM 306	Agent Address			
	Canyon Lake, TX 78133	City, State, Zip			132
Phone #	830-935-4936	Phone #		830-905-2778	
Email	traci@psseptics.com	Email	gregjo	ohnsonpe@yahoo.o	com
2. LOCATION		_			
Subdivision Name	CANYON LAKE VILLAGE WEST	Unit	1	Lot 102	Block
Survey Name / Abs	tract Number			Acreage	
	LLEEN DRIVE				
3. TYPE OF DEVEL					70133
X Single Family	Residential				
Type of Cons	truction (House, Mobile, RV, Etc.)	XISTING HOUSE			
Number of Be	edrooms 3				
Indicate Sq Fi	t of Living Area 1158				
Non-Single Fa	amily Residential				
(Planning mater	rials must show adequate land area for doubli	ng the required land needed fo	r treatm	nent units and dispo	sal area)
	ty			ioni anta di po	our area)
Offices, Facto	ories, Churches, Schools, Parks, Etc Inc	dicate Number Of Occupant	S		
Restaurants, I	Lounges, Theaters - Indicate Number of S	Seats			
Hotel, Motel, H	Hospital, Nursing Home - Indicate Numbe	er of Beds			
Travel Trailer/	RV Parks - Indicate Number of Spaces _				
Miscellaneous					
	6				
Estimated Cost of	Construction: \$ EXISTING	(Structure Only)			
	ne proposed OSSF located in the United	_	eers (I	ISACE) flowage e	asament?
	(If yes, owner must provide approval from USAC				
	Public Private Well	p - p - c - c - c - c - c - c - c - c -	io within	the GONGE howage e	asement)
. SIGNATURE OF					
property.	ation and all additional information submitted m the property owner or I possess the approp	riate land rights necessary to n	nake the	e permitted improve	ments on said
I understand that a pe by the Comal County	by given to the permitting authority and designated inspection of private sewage facilities ermit of authorization to construct will not be is Flood Damage Prevention Order. It to the online posting/public release of my e-m	sued until the Floodplain Admir	nistrato	r has performed the	reviews require
0	3	4/2/76		- pp. outon, as app	ZIIOGDIE,

Date



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 SURFACE IRRIGATION				
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)				
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 (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 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 the approved by the approved to the proposed CZP.				
Is this property within an incorporated city? Yes No				
If yes, indicate the city: GREG W. JOHNSON OFFICIAL ENGINE				
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 Date Page	2 of 2			

AFFIDAVIT

THE COUNTY OF COMAL STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

T

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

П

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

1 UNITA HASE/SECTION	BLOCK102	_rot_	CANYON LAKE VILLAGE WEST	Subdivision
IF NOT IN SUBDIVISION:	ACREAGE			SERVEY
The property is owned by ((insert owner's feil ma	m c):	COLCAD PROPERTIES, LI	<u>c</u>
the initial two-year service	policy, the owner of a	acrobi	e contract for the first two years. After treatment system for a single family in 30 days or maintain the system	r
Upon sale or transfer of the transferred to the buyer or obtained from the Comai (new owner. A copy of	the pla	e permit for the OSSF shall be nning materials for the OSSF can be	
WITNESS BY HAND(8) O	on this <u>27</u> 4 day of	m	20 <u>25</u>	
Xamos.		A	my Shear-Mange	- Ser
Owner(s) signature(s)		Own	er (s) Printed name (s)	
Amy Shear	SWORN T	O AND	SUBSCRIBED BEFORE ME ON THIS	27BAY OF
may	,2025		Filed and Recorded	
Manage Ru	4 4 4 4 4 4		Official Public Records	1
Notary Public Sign	Bature		Bobbie Koepp, County	
Troum's T gotth caffe			Comal County, Texas	
addition that I a	224254		06/09/2025 09:33:29 Al	М
	. BRADEN State of Texas		TERRI 1 Pages(s)	·· -
	es 01-07-2029 8395747		202506017420	
			Robin Kon	01O





By Cody Young LLC

To:	COLCAD PROPERTIES, LLC	
	CANYON LAKE VILLAGE WEST, UNIT 1, LOT 102	
Site:	1728 COLLEEN DR, 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 DATE LICENSE TO until 2 YEARS FROM DATE OF LICENSE TO OPERATE

Contract price \$700

Service Program Includes:

- 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).
- 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.
- 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.
- 9. Insuring access to the property, always to the maintenance provider. (Gates, chains with locks, codes, etc.)

Miscellaneous Provisions

1.	This contract can be terminated by either party in writing, within 30 days' notice. Contracts that are
	terminated will include notification in writing to the Authority having Jurisdiction, the Manufacturer of the
	system, and the other party.

Homeowner: Colcad Properfies, LLC Date: 5/28/25-

Phone: 530-660.7164 Email: ashear @ gutc.com

Maintenance Provider: Milo Young, License #MP0002338

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:	Way 21, 2025	
Site Location:	CANYON LAKE VILLAGE WEST, UN	NIT 1, LOT 102
Proposed Excavation Depth:	N/A	
Locations of soil boring of For subsurface disposal, so proposed excavation dept	ons must be performed on the site, at opposite ends of to dug pits must be shown on the site drawing. Soil evaluations must be performed to a depth of at least h. For surface disposal, the surface horizon must be evan and identify any restrictive features on the form. Indi	t two feet below the aluated.

SO	SOIL BORING NUMBER SURFACE EVALUATION						
	Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	10"	Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 10"	BROWN
2							
3							
4							
5							

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
	SAME		AS		ABOVE	
2						
3						
,						

I certify that the findings of	f this repo	rt are based	on my	field obser	vations and	are accura	ate to
the best of my ability.							

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

05/2//25

Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date:May 22, 2025	
Applicant Information:	
* *	Site Evaluator Information:
Name: COLCAD PROPERTIES, LLC.	Name: Greg W. Johnson, P.E., R.S, S.E. 11561
Address: 200 NANCY DRIVE	Address: 170 Hollow Oak
City: CANYON LAKE State: TEXAS	City: New Braunfels State; Texas
Zip Code: 78133 Phone: (830) 660-7164	Zip Code: 78132 Phone & Fax (830)905-2778
Property Location: CANYON LAKE V Lot 102 Unit 1 Blk Subd. WEST Street Address: 1728 COLLEEN DRIVE City: CANYON LAKE Zip Code: 75	Name: Company:
Additional Info.:	City: State:
Auditional Into	Zip Code: Phone
Fopography: Slope within proposed disposal area	a:%
Presence of 100 yr. Flood Zone:	YESNO_X
Existing or proposed water well in nearby area.	YESNO_X_
Presence of adjacent ponds, streams, water impoundmer	WEG NOV
riesence of adjacent ponds, streams, water impoundmen	ents YESNO_X
Presence of adjacent ponds, streams, water impoundment	YES NO X YES NO X

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

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

05/22/25 DATE



FIRM #2585

AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR: COLCAD PROPERTIES, LLC 200 NANCY DRIVE CANYON LAKE, TX 78133

SITE DESCRIPTION:

Located in Canyon Lake Village West, Unit 1, Lot 102, at 1728 Colleen Drive, the proposed system will serve an existing three bedroom residence (1158 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 2" 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. 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: 750 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)

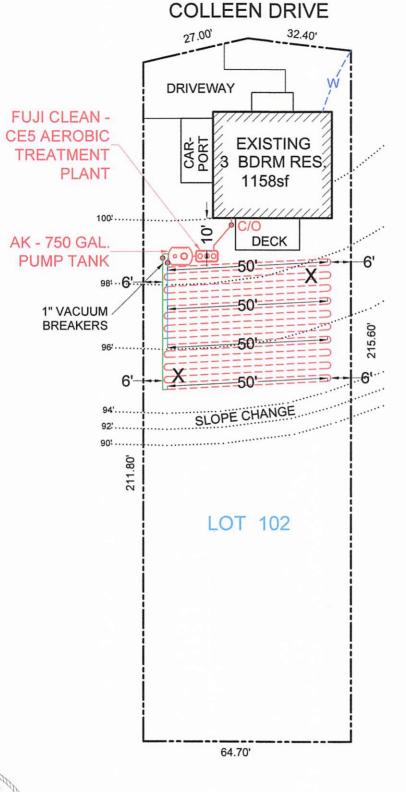
Greg W. Johnson, P.E. No. 67587 / F-2585

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778





INSTALL 2000sf OF FIELD USING 1000' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

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

X= TEST HOLE



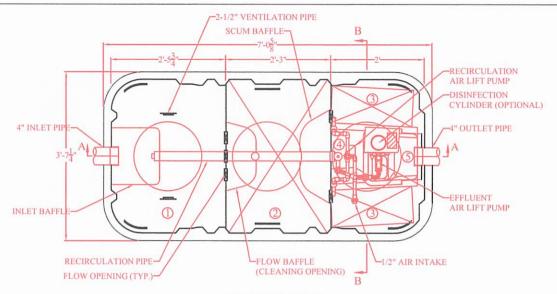
OWNER: COLCAD PROPERTIES, LLC.

STREET ADDRESS: 1728 COLLEEN DRIVE

LEGAL DESC: CANYON LAKE VILLAGE WEST

PREPARED BY: GREG W. JOHNSON, P.E. F#002585 | SCALE: 1"=30' | DATE: 5/22/2025 | REVISED:

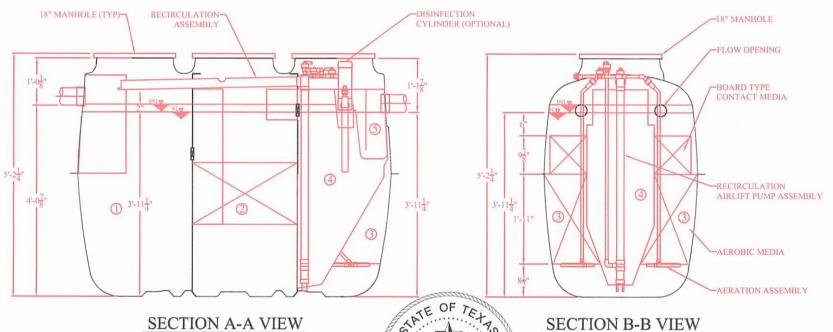




	CHAMBER	Volume (gal)
1	Sedimentation Chamber	198
2	Anaerobic Filtration Chamber	198
3	Aerobic Contact Filtration Chamber	95
4	Storage Chamber	44
3	Disinfection Chamber	4
	Total Volume	540

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 B-B VIEW



CE-5 Structural Drawing

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

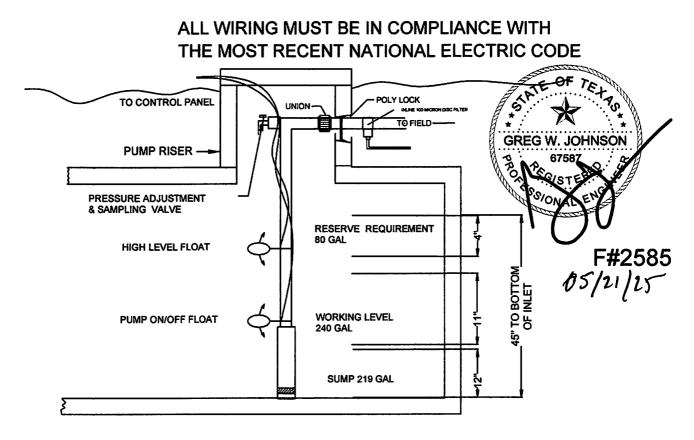
TANK NOTES:

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___

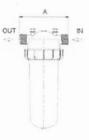
Features

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





Filtration Grades

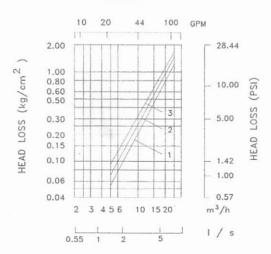
Blue (400 micron / 40 mesh)

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

Black (100 micron /140 mesh)

Green (55 micron)

Head Loss Chart





PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

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

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

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

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

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

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

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

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

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

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

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

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

Physical

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

Overall Length

5.2 inches (13.1 cm)

Overall Width

2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

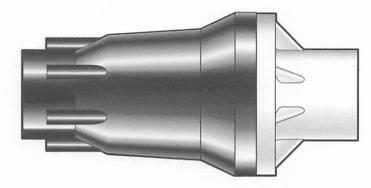
1" FBSPT x 1" FBSPT model

Overall Length

5.8 inches (14.6 cm)

Overall Width

2.5 inches (6.4 cm)



Please consult factory for applications outside of recommended guidelines.



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Model Numbers

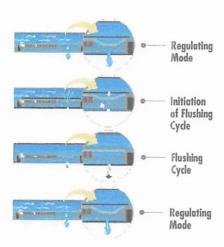
Model #	Flow Range	Preset Operating Pressure	Maximum Inlet Pressure
PMR-6 MF	4 - 16 GPM	6 PSI	80 psi
	(909 - 3634 L/hr)	(0.41 bar)	(5.51 bar)
PMR-10 MF	4 - 16 GPM	10 PSI	90 psi
	(909 - 3634 L/hr)	(0.69 bar)	(6.20 bar)
PMR-12 MF	2 - 20 GPM	12 PSI	90 psi
	(454 - 4542 L/hr)	(0.83 bar)	(6.20 bar)
PMR-15 MF	2 - 20 GPM	15 PSI	95 psi
	(454 - 4542 L/hr)	(1.03 bar)	(6.55 bar)
PMR-20 MF	2 - 20 GPM	20 PSI	100 psi
	(454 - 4542 L/hr)	(1.38 bar)	(6.89 bar)
PMR-25 MF	2 - 20 GPM	25 PSI	105 psi
	(454 - 4542 L/hr)	(1.72 bar)	(7.24 bar)
PMR-30 MF	2 - 20 GPM	30 PSI	110 psi
	(454 - 4542 L/hr)	(2.07 bar)	(7.58 bar)
PMR-35 MF	2 - 20 GPM	35 PSI	115 psi
İ	(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)

NETAFIM[®] Bioline[®] Dripperline

11

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



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
 Triffuralin 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

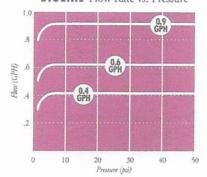
Inside diameter: .570*

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





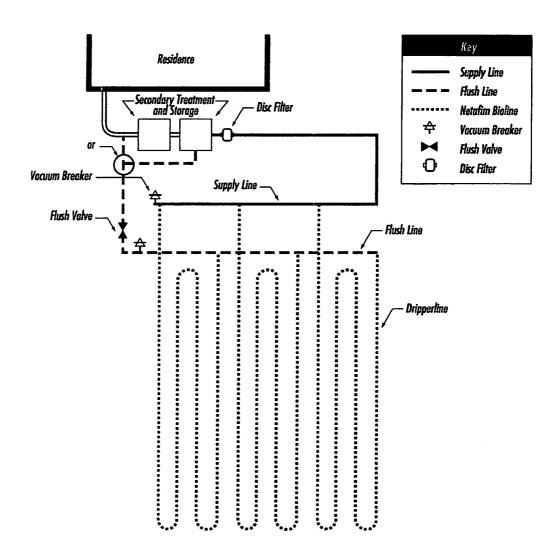
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

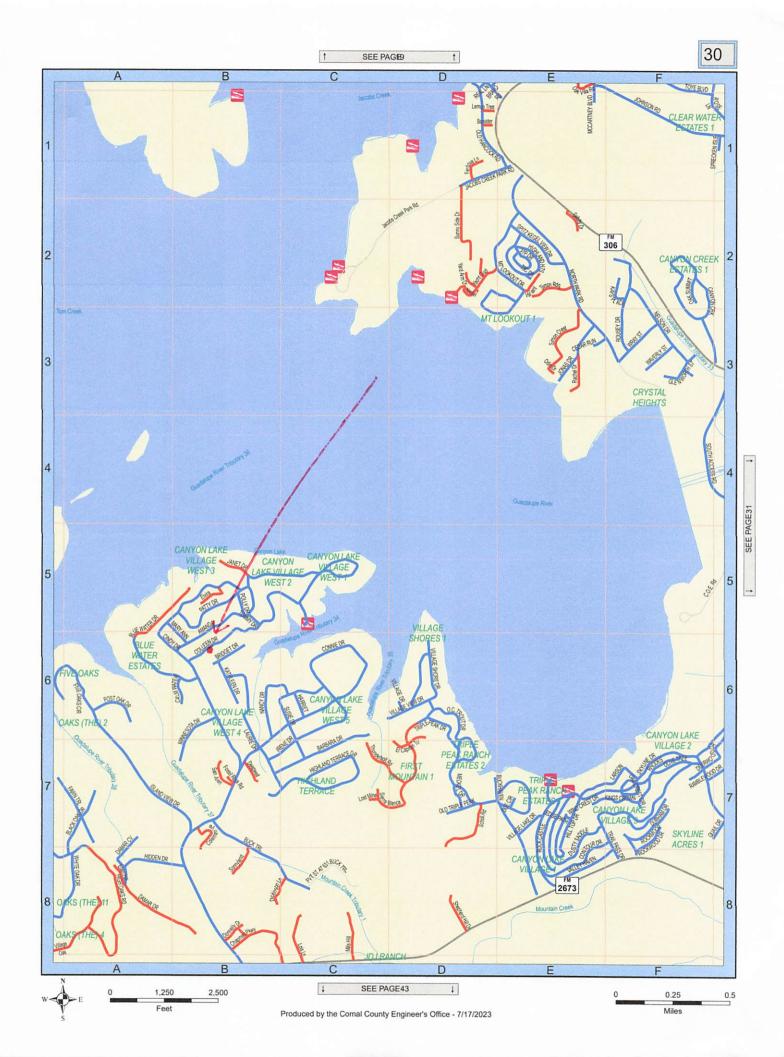
SAMPLE DESIGNS

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





From: Ritzen, Brenda

To: <u>Traci Field; "(gregjohnsonpe@yahoo.com)"</u>

Subject: Permit 118731

Date: Friday, June 27, 2025 7:55:00 AM

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

Re: Colcad Properties, LLC

Canyon Lake Village West Unit 1 Lot 102

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

Owner / Agent :

The following information is needed before I can continue processing the referenced permit submittal:

- The 2 year initial maintenance contract must indicate that the start date of the contract shall be the date the License to Operate is issued, not "LTO".
- 2. A preliminary inspection is scheduled for today. Additional comments may be necessary once complete.
- 3. 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



By Cody Young LLC

To:	COLCAD PROPERTIES, LLC					
	CANYON LAKE VILLAGE WEST, UNIT 1, LOT 102					
Site:	1728 COLLEEN DR, 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 _____LTO ______until _2 YEARS FROM LTO

Contract price \$700

Service Program Includes:

- 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.
- 5. Labor expenses required at the home to service, repair, or install any part of the control panel or aerator returned from factory.
- 6. 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.
- 4. 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.	This contract can be terminated by either party in writing, within 30 days' notice. Contracts that are	
	terminated will include notification in writing to the Authority having Jurisdiction, the Manufacturer of th	ıe
	system, and the other party.	

Homeowner: Colcad Properties, LLC Date: 5/28/25-

Phone: 830-610.7164 Email: ashear@gutc.com

Maintenance Provider: Milo Young, License #MP0002338

Septic Pumping & Maintenance by Cody Young

911 RR3404

Kingsland, TX 78639

(325)248-8740





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

Date: December 16, 2019

Grantors: Amy Robin Bybee a/k/a Amy Robin Shear, a married woman granting her sole and separate property, Nance J. Parriott, a widow, and Lane V. Bybee, Independent Administrator of the Estate of Jimmy H. Parriott, Deceased.

Grantor's Mailing Address:

3612 Lajitas Leander, Texas 78641

Grantee: COLCAD PROPERTIES LLC

Grantee's Mailing Address:

200 Nancy Drive Canyon Lake, Texas 78133

Consideration:

Ten dollars and other good and valuable consideration paid by Grantee.

Property (including any improvements):

All that certain tract or parcel of land lying and being situated in Comal County, Texas, being known and designated as Lot 102, CANYON LAKE VILLAGE WEST, UNIT NO. 1, Comal County, Texas according to map or plat records in Volume 2, page 61 of the Map and Plat Records of Comal County, Texas.

Reservations From and Exceptions to Conveyance and Warranty:

This conveyance is made subject to all restrictions, easements, covenants, conditions, and prior conveyances or reservations of mineral and/or royalties of record in Counal County, Texas, affecting said property; and subject to all zoning laws, regulations and ordinances of municipal and/or other governmental authorities, if any, but only to the extent that they are still in effect, relating to said property.

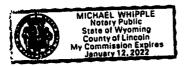
2017.REI-1 General Warranty Deed

Page 1

STATE OF	<i>J)</i>
COUNTY OF	Tetur

999

This instrument was acknowledged before me on this 20th day of December 2019, by Nance J. Parriott.



Notary Public, State of Wyoning

STATE OF TEXAS

COUNTY OF Tracis

8 8 8

This instrument was acknowledged before me on this 17 day of December 2019, by Lane V. Bybee, Independent Administrator of the Estate of Jimmy H. Parriott, Deceased.



Notary Public, State of Texas

PREPARED IN THE OFFICE OF:

JONES SULLIVAN LAW 308 Campbell Drive Canyon Lake, Texas 78133 Tel: (830) 899-3259

Fax: (210) 579-6448

2017.REI-1 General Warranty Doed

Grantor, for the Consideration and subject to the Reservations from Conveyance and Exceptions to Conveyance and Warranty, Grantor 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.

Grantor:

Amy Robin Bybee a/k/a Amy Robin Shear, a married woman granting her sole and separate property

Nance J. Parriett, a widow

Lane V. Bybee, Independent Administrator of the Estate of Jimmy H. Parriott, Deceased

This instrument was prepared based on information furnished by the parties, and no independent title search has been made.

STATE OF TEXAS

COUNTY OF COMAL

999

This instrument was acknowledged before me on this day of December 2019, by Am Robin Bybee a/k/a Amy Robin Shear.

•

Tameta J. Cur My Commission 09/28/2021 ID No. 1280824 Notary Public, State/of Texas



This page has been added to comply with the statutory requirement that the clerk shall stamp the recording information at the bottom of the last page.

This page becomes part of the document identified by the file clerk number affixed on preceding pages.

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
01/29/2020 12:02:49 PM
TERRI 4 Page(s)
202006003474

Bobbie Koepp

Created 7/27/15





COMPLETE APPLICATION

____ Receipt No._

Check No.

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items 118731 Date Received Initials Permit Number

Instructions:						
Place a check mark next to all items that apply. For items that do no Checklist must accompany the completed application.	t apply, place "N/A". This OSSF Development Application					
OSSF Permit						
Completed Application for Permit for Authorization to Construct	t an On-Site Sewage Facility and License to Operate					
Site/Soil Evaluation Completed by a Certified Site Evaluator or	a Professional Engineer					
Planning Materials of the OSSF as Required by the TCEQ Rule of a scaled design and all system specifications.	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	Required Permit Fee - See Attached Fee Schedule					
Copy of Recorded Deed						
Surface Application/Aerobic Treatment System						
Recorded Certification of OSSF Requiring Maintenance/	Affidavit to the Public					
Signed Maintenance Contract with Effective Date as Issu	ance of License to Operate					
I affirm that I have provided all information required for my OSS constitutes a completed OSSF Development Application.	F Development Application and that this application					
100	06/09/2025					
Signature of Applicant	Date					

INCOMPLETE APPLICATION (Missing Items Circled, Application Refeused)

Revised: September 2019