

#### License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:	12/16/2021		Permit Number:	112727
Location Description:	447 FOREST CANYON LAI			
	Subdivision:	CANYON LAKE MOBILI	E HOMES ESTATES	
	Unit:	0		
	Lot:	21		
	Block:	0		
	Acreage:	0.0000		
Type of System:	Aerobic			
	Drip Irrigation			
Issued to:	MITCHELL D.	THOMPSON		

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to the rules and regulations for on-site sewerage facilities of Comal County, Texas, and the Texas Commission on Environmental Quality.

The license grants permission to operate the facility. It does not guarantee successful operation. It is the responsibility of the owner to maintain and operate the facility in a satisfactory manner.

Alterations to this permit including, but not limited to:

- Increase in the square feet of living area
- Increase in the number of bedrooms
- A change of use (i.e. residential to commercial)
- Relocation of system components (including the relocation of spray heads)
- Installation of landscaping
- Adding new structures to the system

may require a new permit. It is the responsibility of the owner to apply for a new permit, if applicable.

Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

This license to operate is valid for an indefinite period. The holder may transfer it to a succeeding owner, provided the

ENVIRONMENTAL HEALTH INSPECTOR

OS0034792

Licensing Authority Comal County Environmental Health

ENVIRONMENTAL HEALTH CO

OS0007722

			nty Environme F Inspection SI			FIN	IAL
Installer Name: Paul	Swoyer		OSSF Installer #:_OS	0026238			
1st Inspection Date: $07-1$	2-2021	2nd Inspection Da	nte: 12/2/21	3rd Inspectior	Date: 12-16	5-2021	
	lvera	Inspector Name:_	Corev Allen		Name: B. Ol		
Permit#:112727			Address: 447 Forest	Hill St. / Cany	on Lake Mo		
No. Description	Anwser	Citations	Notes		1st Insp.	2nd Insp.	3rd Insp.
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	07-2-21	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)(ii)			07-12-21		
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)					
SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)					
SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)					
SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)					
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)(F) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii) 285.32(b)(1)(E)(ii)(I)					
PRETREATMENT Grease Interceptors if required for commercial 07-12-2021 BMO: Tank Se		285.34(d)	1				

07-12-2021 BMO: Tank Set Level No Leaks, Cover Tank

12/2/21 CA: Operational. Cover drip field.

12-16-2021 BMO: Covered

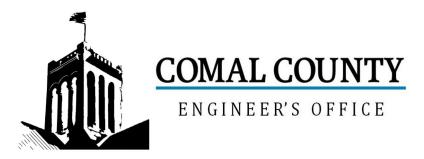
No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	SEPTIC TANK Tank(s) Clearly		285.32(b)(1)(E)			·	•
	Marked SEPTIC TANK If		285.91(2)				
	SingleTank, 2		285.32(b)(1)(F)				
	Compartments Provided with		285.32(b)(1)(E)(iii)				
	Baffle SEPTIC TANK Inlet Flowline		285.32(b)(1)(E)(ii)(II)				
	Greater than		285.32(b)(1)(E)(ii)(I)				
	3" and " T " Provided on Inlet and		285.32(b)(1)(E)(i)				
	Outlet		285.32(b)(1)(D)				
	SEPTIC TANK Septic Tank(s) Meet		285.32(b)(1)(C)(ii)				
	Minimum Requirements		285.32(b)(1)(C)(i)				
			285.32(b)(1)(B)				
			285.32(b)(1)(A)				
			285.32(b)(1)(E)(iv)				
			203.32(0)(1)(1)(1)(1)				
8	ALL TANKS Installed on 4" Sand						
	Cushion/ Proper Backfill Used	07-2-22	285.32(b)(1)(F)		Ĵ	>	
	cushiony Proper Backini Oseu	$\mathcal{N}$	285.32(b)(1)(G)		07-12-2		
		SI'	285.34(b)		SI'		
9			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	SEPTIC TANK Inspection / Clean						
	Out Port & Risers Provided on						
	Tanks Buried Greater than 12"		285.38(d)				
	Sealed and Capped						
10							
	SEPTIC TANK Secondary restraint						
	system provided						
	SEPTIC TANK Riser permanently						
	fastened to lid or cast into tank						
	SEPTIC TANK Riser cap protected		285.38(d)				
	against unauthorized intrusions		285.38(e)				
11			(-)				
	SEPTIC TANK Tank Volume						
	Installed						
12	PUMP TANK Volume Installed						
13							
10	AEROBIC TREATMENT UNIT Size			6.0.0			
	Installed			600			
				000			
14							
	AEROBIC TREATMENT UNIT Manufacturer						
	AEROBIC TREATMENT UNIT			Maxx Air			
	Model			<b>IVIANA</b> 1111			
4-	Number						
15	DISPOSAL SYSTEM Absorptive		203.33(d)(4)				
1			285.33(a)(1)				
			285.33(a)(2)				
16			285.33(a)(3)				
10	DISPOSAL SYSTEM Leaching		285.33(a)(1)				
	Chamber		285.33(a)(3)				
			285.33(a)(4)				
17			285.33(a)(2)				
17	DISPOSAL SYSTEM Evapo-		203.33(d)(3)				
	transpirative		285.33(a)(4)				
			285.33(a)(1)				
18			285.33(a)(2)				
10	1	ı			I		

No.         Description         Anwser         Ctations         Notes         1st Insp.         Zad Insp.           DISPOSAL SYSTEM Drip Irrigation         285.33(c)[/3](A)-(F)         285.33(c)]	3rd Insp.
Instruction         Instruction <thinstruction< th=""> <thinstruction< th=""></thinstruction<></thinstruction<>	
DISPOSAL SYSTEM Soil         285.33(d)(4)           20         DISPOSAL SYSTEM Pumped Effluent         285.33(a)(3) 285.33(a)(1) 285.33(a)(2)           21         285.33(a)(2) 285.33(a)(2)         285.33(a)(3) 285.33(a)(2)           21         285.33(a)(2) 285.33(a)(2)         285.33(a)(3) 285.33(a)(1)           22         285.33(a)(2)         285.33(a)(2)           23         285.33(a)(2)         285.33(a)(4)           23         285.33(a)(4)         285.33(a)(4)           24         285.33(a)(4)         285.33(a)(4)           24         285.33(c)(4)         285.33(c)(4)           25         or 4" PVC         285.33(b)(1)(A)(V)           25         or 4" PVC         285.33(b)(1)(A)(V)           26         285.33(b)(1)(A)(V)         285.33(b)(1)(A)(V)           26         285.33(b)(1)(A)(V)         285.33(b)(1)(A)(V)	
DISPOSAL SYSTEM Soil         285.33(d)(4)           20         DISPOSAL SYSTEM Pumped Effluent         285.33(a)(3) 285.33(a)(1) 285.33(a)(2)           21         285.33(a)(2) 285.33(a)(2)         285.33(a)(3) 285.33(a)(2)           21         285.33(a)(2) 285.33(a)(2)         285.33(a)(3) 285.33(a)(1)           22         285.33(a)(2)         285.33(a)(2)           23         285.33(a)(2)         285.33(a)(4)           23         285.33(a)(4)         285.33(a)(4)           24         285.33(a)(4)         285.33(a)(4)           24         285.33(c)(4)         285.33(c)(4)           25         or 4" PVC         285.33(b)(1)(A)(V)           25         or 4" PVC         285.33(b)(1)(A)(V)           26         285.33(b)(1)(A)(V)         285.33(b)(1)(A)(V)           26         285.33(b)(1)(A)(V)         285.33(b)(1)(A)(V)	
DISPOSAL SYSTEM Soil         285.33(d)(4)           20         DISPOSAL SYSTEM Pumped Effluent         285.33(a)(3) 285.33(a)(1) 285.33(a)(2)           21         285.33(a)(2) 285.33(a)(2)         285.33(a)(3) 285.33(a)(2)           21         285.33(a)(2) 285.33(a)(2)         285.33(a)(3) 285.33(a)(1)           22         285.33(a)(2)         285.33(a)(2)           23         285.33(a)(2)         285.33(a)(4)           23         285.33(a)(4)         285.33(a)(4)           24         285.33(a)(4)         285.33(a)(4)           24         285.33(c)(4)         285.33(c)(4)           25         or 4" PVC         285.33(b)(1)(A)(V)           25         or 4" PVC         285.33(b)(1)(A)(V)           26         285.33(b)(1)(A)(V)         285.33(b)(1)(A)(V)           26         285.33(b)(1)(A)(V)         285.33(b)(1)(A)(V)	
20         Substitution         285.33(d)(4)           DISPOSAL SYSTEM Pumped Effluent         285.33(a)(3) 285.33(a)(1)         285.33(a)(2)           21         285.33(a)(2)         285.33(a)(2)           21         285.33(a)(2)         285.33(a)(2)           21         285.33(a)(1)         285.33(a)(2)           22         285.33(a)(1)         285.33(a)(1)           22         285.33(a)(1)         285.33(a)(1)           22         285.33(a)(1)         285.33(a)(1)           23         285.33(a)(2)         285.33(a)(2)           23         285.33(a)(4)         285.33(a)(4)           24         285.33(a)(4)         285.33(a)(2)           25         or 4" PVC         285.33(c)(4)           25         or 4" PVC         285.33(b)(1)(A)(v)           25         Fefluent baserptive Drainline 3" PVC         285.33(b)(1)(A)(v)           26         PRAINFIELD Area Installed         285.33(b)(1)(A)(v)           26         PRAINFIELD Area Installed         285.33(b)(1)(A)(v)	
DISPOSAL SYSTEM Pumped Effluent         285.33(a)(3) 285.33(a)(2)	
Effluent         285.33(a)(1)           21         DISPOSAL SYSTEM Gravelless Pipe         285.33(a)(2)           22         285.33(a)(2)         285.33(a)(1)           21         DISPOSAL SYSTEM Mound         285.33(a)(2)           22         285.33(a)(1)         285.33(a)(1)           23         285.33(a)(1)         285.33(a)(1)           23         285.33(a)(1)         285.33(a)(2)           24         285.33(a)(4)         285.33(a)(6)           25         or 4" PVC         285.33(a)(1)           25         or 4" PVC         285.33(b)(1)(A)(V)           25         or 4" PVC         285.33(b)(1)(A)(V)           26         DRAINFIELD Absorptive Drainline 3" PVC         285.33(b)(1)(A)(V)           26         DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation         285.33(b)(1)(A)(V)	
21         285.33(a)(2)           DISPOSAL SYSTEM Gravelless Pipe         285.33(a)(2)           22         285.33(a)(1)           22         285.33(a)(1)           23         285.33(a)(1)           24         285.33(a)(1)           25         285.33(a)(1)           26         285.33(a)(1)           23         285.33(a)(1)           24         285.33(a)(2)           25         or 4" PVC           26         DRAINFIELD Absorptive Drainline           3" PVC         or 4" PVC           25         or 4" PVC           26         DRAINFIELD Area Installed           27         285.33(b)(1)(A)(v)	
DISPOSAL SYSTEM Gravelless Pipe         285.33(a)(3) 285.33(a)(4) 285.33(a)(1)         285.33(a)(3) 285.33(a)(1)           DISPOSAL SYSTEM Mound         285.33(a)(1) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)         285.33(a)(3) 285.33(a)(4)           DISPOSAL SYSTEM Other (describe) (Approved Design)         285.33(d)(6) 285.33(c)(4)         285.33(c)(4)           DISPOSAL SYSTEM Other (describe) (Approved Design)         285.33(c)(4)         285.33(c)(4)           DAINFIELD Absorptive Drainline 3" PVC 25 or 4" PVC         285.33(b)(1)(A)(v)         285.33(b)(1)(A)(v)           DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation         285.33(b)(1)(A)(v)         285.33(b)(1)(A)(v)	
285.33(a)(2)       285.33(a)(4)         285.33(a)(1)       285.33(a)(1)         285.33(a)(2)       285.33(a)(2)         285.33(a)(4)       285.33(a)(4)         29       285.33(a)(4)         20       DRAINFIELD Absorptive Drainline         3" PVC       285.33(c)(4)         25       or 4" PVC         DRAINFIELD Area Installed       285.33(b)(1)(A)(v)         26       DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation       285.33(b)(1)(A)(v)         27       285.33(b)(1)(A)(v)       285.33(b)(1)(A)(v)	
22285.33(a)(1)285.33(a)(3)23DISPOSAL SYSTEM Mound285.33(a)(1)23285.33(a)(2)285.33(a)(2)23DISPOSAL SYSTEM Other (describe) (Approved Design)285.33(d)(6)24285.33(c)(4)285.33(c)(4)24DRAINFIELD Absorptive Drainline 3" PVC 25 or 4" PVC285.33(c)(4)26DRAINFIELD Area Installed026DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation285.33(b)(1)(A)(v)27V00	
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23     Control     <	
DISPOSAL SYSTEM Other (describe) (Approved Design)       285.33(d)(6) 285.33(c)(4)         DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC       285.33(c)(4)         DRAINFIELD Area Installed       285.33(c)(4)         DRAINFIELD Area Installed       285.33(b)(1)(A)(v)         DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation       285.33(b)(1)(A)(v)	
(describe) (Approved Design)       285.33(c)(4)         24       DRAINFIELD Absorptive Drainline 3" PVC         25       or 4" PVC         26       DRAINFIELD Area Installed         26       DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation         27       285.33(b)(1)(A)(v)	
24     DRAINFIELD Absorptive Drainline       3" PVC       25     or 4" PVC       26     DRAINFIELD Area Installed       27     285.33(b)(1)(A)(v)	
DRAINFIELD Absorptive Drainline       BRAINFIELD Absorptive Drainline       Image: Constraint of the second	
3" PVC or 4" PVC       Image: Second secon	
25     or 4" PVC     Image: Constraint of the second secon	
DRAINFIELD Area Installed     Image: Constraint of the state of the st	
26     DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation     285.33(b)(1)(A)(v)     285.33(b)(1)(A)(v)	
per 25 feet and within 3 inches over entire excavation     285.33(b)(1)(A)(v)	
over entire excavation     285.33(b)(1)(A)(v)       27	
27	
DRAINFIELD Excavation Depth	
DRAINFIELD Excavation	
Separation DRAINFIELD Depth of	
Porous Media	
DRAINFIELD Type of Porous Media	
28	
DRAINFIELD Pipe and Gravel - 285.33(b)(1)(E)	
29 Geotextile rabit in Place	
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 285.33(d)(1)(C)(i)	
Separation Distance between	
Trenches	

No.	Description	Anwser	Citations	Notes	1st l	nsp.	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		285.33(b)(3)(A)					
	Linear ft. for 2 bedrooms or Less		285.33(b)(3)(A)					
	& an additional 400 ft. for each additional bedroom )		285.33(b)(3)(B)					
	EFFLUENT DISPOSAL SYSTEM Lateral		285.91(13)					
	Depth of 18 inches to 3 ft. & Vertical		285.33(b)(3)(D)					
	Separation of 1ft on bottom and 2 ft. to		285.33(b)(3)(F)					
	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							
32								
	AEROBIC TREATMENT UNIT IS	07-12-21			51.7	2		
	Aerobic Unit Installed According	Nº.	285.32(c)(1)		$\sim$	V		
33	to Approved Guidelines.	01			SI'			
33	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							
34	unauthorized intrusions							
	AEROBIC TREATMENT UNIT							
	Chlorinator Properly Installed with							
35	Chlorine Tablets in Place.							
	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							
36	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							
27								
37	PUMP TANK Secondary restraint							
38	system provided							
	PUMP TANK Electrical							
	Connections in Approved Junction							
39	Boxes / Wiring Buried							



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No.	-	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	APPLICATION AREA Distribution		285.33(d)(2)(G)(iii)(II)285.3				
	Pipe, Fitting, Sprinkler Heads &		3(d)(2)(G)(iii)(III)285.33(d)(				
	Valve Covers Color Coded Purple?		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)(ii)				
			285.33(d)(2)(G)(iii)(I)				
40							
	APPLICATION AREA Low Angle						
	Nozzles Used / Pressure is as						
	required						
	APPLICATION AREA Acceptable		285.33(d)(2)(G)(i)				
	Area, nothing within 10 ft of		285.33(d)(2)(A)				
	sprinkler heads?		285.33(d)(2)(F)				
	APPLICATION AREA The						12-16-21
	Landscape Plan is as Designed						12-10-21
41	APPLICATION AREA Area Installed						
	AFF LICATION ANEA Area installed						Х
42							
	PUMP TANK Meets Minimum						
	Reserve Capacity Requirements						
43							
	PUMP TANK Material Type &						
44	Manufacturer						
	PUMP TANK Type/Size of Pump						
45	Installed						
45							



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

Permit Number:	112727
Issued This Date:	06/08/2021
This permit is hereby given to:	MITCHELL D. THOMPSON

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

## 447 FOREST HILL ST CANYON LAKE, TX 78133

Subdivision:	CANYON LAKE MOBILE HOMES ESTATES
Unit:	0
Lot:	21
Block:	0
Acreage:	0.0000

## 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.

# **RECEIVED** By KG at 2:25 pm, Jun 07, 2021



# OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

Date Received Initials

112727

Permit Number

Instructions:

Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist <u>must</u> accompany the completed application.

oss	F Permit
Х	Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate
X	Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer
	Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.
$\times$	Required Permit Fee - See Attached Fee Schedule
$\times$	Copy of Recorded Deed
X	Surface Application/Aerobic Treatment System
	Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public
	Signed Maintenance Contract with Effective Date as Issuance of License to Operate

I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application.

of Applicant ire

**COMPLETE APPLICATION** 

Check No. \_\_\_\_\_ Receipt No.

06/06/2021

Date



Revised: September 2019

RECEIVED By KG at 2:25 pm, Jun 0 COMAL CO ENGINEER'S	OUNTY ON-SITE SEWAGE FA		ATION	195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 <u>WWW.CCEO.ORG</u>
Date 5-18	-2021	<u> </u>	Permit Number_	112727
1. APPLICANT / AG	GENT INFORMATION			
Owner Name	MITCHELL D. THOMPSON	Agent Name	GREG W. JO	DHNSON, P.E.
Mailing Address	c/o 23011 FM 306	Agent Address		low Oak
City, State, Zip	Canyon Lake, TX 78133		New Braun	fels, TX 78132
Phone #	830-935-4936	Phone #		05-2778
Email	katelyn@psseptics.com	- Email	gregjohnsonp	e@yahoo.com
2. LOCATION		-	- <del>-</del> •	
Subdivision Name	CANYON LAKE MOBILE HOME ESTATES	Un	it Lot	21 Block
- Survey Name / Abst	tract Number			Acreage
Address 4	47 FOREST HILL STREET	City CANYON LA		e TX Zip 78133
3. TYPE OF DEVEL				
Non-Single Fa (Planning mater Type of Facilit Offices, Facto Restaurants, I Hotel, Motel, I	t of Living Area 1600 mily Residential rials must show adequate land area for doubling t ty	te Number Of Occup ts f Beds	oants	
Is any portion of the Yes X No Source of Water 4. SIGNATURE OF By signing this applicate The completed applicate facts. I certify that I approperty. - Authorization is hereful site/soil evaluation ar - I understand that a per by the Comal County		tes Army Corps of E r proposed OSSF improv es not contain any false e land rights necessar d agents to enter upon ed until the Floodplain	ements within the USA e information and do y to make the permit the above describe Administrator has pe	CE flowage easement) es not conceal any material tted improvements on said d property for the purpose of erformed the reviews required
mothed	hempton	5 - 18-		and the application

Signature of Owner

-1 2

Date

### \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site E	Evaluation as Required Comple	ted By GREG W. JOHNSON, P.E.	<b>.</b>
System Description	PROPRIETARY;	AEROBIC TREATMENT AND DRIP TUB	ING
Size of Septic System Requ	uired Based on Planning Materi	als & Soil Evaluation	
Tank Size(s) (Gallons)	SOLAR AIR SA600LP	_Absorption/Application Area (Sq Ft)	2520
Gallons Per Day (As Per T (Sites generating more than 5	CEQ Table III)     300       000 gallons per day are required to	o obtain a permit through TCEQ)	
(If yes, the planning materials	r the Edwards Recharge Zone? must be completed by a Registere approved WPAP for the property	d Sanitarian (R.S.) or Professional Engineer (P.	Ξ.))
-	••	lies with all provisions of the existing WPAP.)	
(If yes, the R.S. or P. E. shall	certify that the OSSF design will co	nent activity require a TCEQ approved WPA omply with all provisions of the proposed WPAP. has been approved by the appropriate regional o	A Permit to Construct will
Is there an existing TCEQ a (if yes, the P.E. or R.S. shall o If there is no existing CZP, (if yes, the P.E. or R.S. shall c	does the proposed development ertify that the OSSF design will com		
Is this property within a	an incorporated city?   Ye	GREG W. JOHNSO GREG W. JOHNSO 67587 O, F G/STEREON SS/ONAL ENGINE	RM #2585
By signing this application, I cer - The information provided abo - I affirmatively consent to the c	we is true and correct to the best of	my knowledge. -mail address associated with this permit applicat	ion, as applicable

Signature of Designer

June 4, 2021

Page 2 of 2 **Revised July 2018** 

195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

Date

SURVEY

#### AFFIDAVIT

#### THE COUNTY OF COMAL STATE OF TEXAS

#### **CERTIFICATION OF OSSF REQUIRING MAINTENANCE**

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

I 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.

II 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):

UNIT/PHASE/SECTION BLOCK 21 LOT CANYON LAKE MOBILE HOME ESTATES SUBDIVISION

IF NOT IN SUBDIVISION: \_\_\_\_\_ ACREAGE \_\_\_\_\_

The property is owned by (insert owner's full name): MITCHELL D. THOMPSON

This OSSF must be covered by a continuous maintenance contract 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 can be obtained from the Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS\_B DAY OF \_\_\_\_ .2021

Owner(s) signature(s)

**MITCHELL D. THOMPSON** 

Owner (s) Printed name (s)

MITCHELL D. THOMPSON	SWORN TO AND SUBSCRIBED BEFORE ME ON THIS	DAY OF
,20 <u>_21</u>	THIS AREA FOR COMAL COUNTY CLERK RECORDING FUR	OSES ONLY
(see attached)		
Notary Public Signature		
	See Attached California	
	All-Purpose Acknowledgement 5/18/2071 K.M.	
(Notary Seal Here)		

CALIFORNIA JURAT CERTIFICATE				
	cate verifies only the identity of the individual who signed ot the truthfulness, accuracy, or validity of that document.			
State of California				
County of <u>BUTTE</u>				
Subscribed and sworn to (or affirmed) before	••••••••••			
20 21 , by MITCHELL DAVID THOM	35 ON/			
	ence to be the person(s) who appeared before me.			
WITNESS MY HAND AND OFFICIAL	SEAL. K. MANNING COMM. # 2327446 HOTARY PUBLIC - CALIFORNIA D BUTTE COUNTY COMM. EXPIRES MAY 5, 2024			
Il ma				
Signature of Notary Public	- (Notary Seal)			
OPTIONAL I	NFORMATION			
The jurat contained within this document is in accordance with California law. Any affidarit subscribed and swore to before a notary shall use the preseding wording or substantially similar wording partwant to Civil Code sections 1189 and 8202. A jurat certificate cannot be affixed to a document sent by mail or otherwise delivered to a notary public, including electronic means, whereby the signer did not personally appear before the notary public, even if the signer is known by the notary public. The seal and signature cannot be affixed to a document without the correct notarial wording. As an additional option an affiant can produce an affidavit on the same document as the notarial certificate wording to eliminate the use of additional documentation.				
DESCRIPTION OF ATTACHED DOCUMENT	CAPACITY CLAIMED BY SIGNER			
ON-SITE SEINAGE FACILITY APPLICATION	Individual Corporate Officer			
	Corporate Officer Partner			
(Title of document)	Corporate Officer			

(Additional Information)

	Other:
Filed and	Recorded
<b>Official P</b>	Public Records
Bobbie K	Coepp, County Clerk
	ounty, Texas
	21 12:25:41 PM
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20210603	

MMXVII H.WARDALE 925.786.8909 www.totallynotary.act

Battie Keepp



PAUL SWOYER SEPTIC SUPPLY & SERVICE 23011 FM 306 CANYON LAKE, TX 78133 MP#0001708

CHRISTOPHER RYAN SEIDENSTICKER

	Customer: MITCHELL D. THOMPSON
PROPERTY LEGAL DESCRIPTION:	Site Address: 447 FOREST HILL STREET
CANYON LAKE MOBILE HOME ESTATES 1, LOT 21	City/State: CANYON LAKE, TEXAS Zip: 78133
	County: COMAL Permit#:
	Phone Number: 530 520 6144
	E-mail: Mitchell Thompson 1997 Eyahor

I. General: This On-Site Sewage Facility Service Agreement (hereinafter referred to as "Agreement") is entered into by and between
MITCHELL D. THOMPSON
(hereinafter referred to as "Client") and PS Supply & Service LLC.
(hereinafter referred to as "Contractor"). By this agreement, Contractor agrees to render services, as described herein (the "Services"), and the client agrees to fulfill his/her/their responsibilities under this agreement herein.

II. Effective Dates: This agreement commences on the date of License to Operate is issued for Three (3) years.

Date of License to Operate: LTO Last Date of Service: 3 yrs from LTO

III. Services by Contractor: Contractor will provide the following Services:

- 1. Inspect and perform routine maintenance on the On-Site Sewage Facility ("OSSF") in compliance with the code, regulations, and/or rules of the Texas Commission on Environmental Quality ("TCEQ") and county in which the OSSF is located (the "County") and the manufacturer's requirements, at a frequency of approximately once every four (4) months.
- 2. Report to the appropriate regulatory authority and to Client, as required by the State of Texas' on-site rules and, if required, TCEQ or County rules. All findings must be reported to the appropriate regulatory authority within 14 days.
- Notify Client and repair any components of the OSSF that are found to be in need of repair during the inspection. If warranty, you just do it. If not, Client will be responsible. Repairs will be made so brought up to compliance and bill forward.
- 4. Visit site in response to Client's request for unscheduled service within two business days from the date of Contractor's actual receipt of Client's request. Unscheduled service visits are not included in the fee agreement herein and will be billed to the client in addition to fees under this Agreement.
- Provide notification of arrival to site to the Client or to site personnel. Additionally, Contractor will leave written notification of the visit at the site or with site personnel upon completion of inspection, and forward such notice to the appropriate regulatory authority within fourteen (14) days.
- IV. Payment(s): Client shall pay to Contractor included w/ septic for the Services describe herein (the "Inspection and Routine Maintenance Fee"), excepting those described in Section III (4), or Section IX, herein. The Fee does not include equipment, parts or labor supplied for anything beyond routine inspection and routine maintenance. Payments for such additional services are due at the time services are provided or rendered. Payments not received within thirty (30) days from the due date will be subject the greater of a \$20.00 late penalty or 1.5% carrying charge on the original balance for each month or portion thereof a balance in past due. If for any reason such charges are found to be usurious by a court of competent jurisdiction, such charges shall be reduced to the maximum allowable by law. By signing this contract, Client authorizes Contractor to remove any parts installed, but not paid in full at the end of the thirty (30) days. Client agrees to pay for any labor cost associated with the installation and the reasonable cost of removal of said parts.

Client

Contractor:

#### V. Client's Responsibilities: Client is responsible for each and all of the following:

- 1. To maintain chlorinator and provide proper chlorine supply, if OSSF is so equipped.
- 2. To provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, and to allow Contractor ready access to all parts of the OSSF.
- 3. To maintain a current license to operate, and abide by the conditions and limitations of that license and all requirements for onsite sewage facilities from the State and local regulatory agency.
- 4. To maintain the OSSF in accordance with manufacturer's recommendations.
- 5. To immediately notify Contractor and Agency of any and all problems with, the OSSF, including failure thereof.
- 6. Upon receipt of any written notification of required services from Contractor, to contact Contractor and authorize the required service. If Client elects a different contractor to perform the required service, Client is responsible for ensuring the substitute contractor holds the proper license (Installer II) and is certified by the manufacturer. Additionally, Client shall be responsible for ensuring proper notification is given to the appropriate regulatory authority, as required by the State and/or local regulatory authority rules.
- 7. To provide Contractor with water usage records, upon request, for evaluation by Contractor of the OSSF performance.
- To pay required sampling charges for samples collected for testing (e.g. Biological Oxygen Demand/Total Suspended Solids ("BOD/TSS") that may be required on the OSSF.
- 9. To prevent backwash from water treatment or water conditioning equipment to enter the OSSF.
- 10. To provide, at Client's expense, for pumping of tanks as needed.
- 11. To maintain site drainage sufficient to prevent adverse effects on the OSSF.
- 12. To promptly and fully pay Contractor's bills, fees, or invoices as described herein.
- VI. Access by Contractor: Client agrees to allow Contractor, or personnel authorized by the Contractor, to enter the property at reasonable times without prior notice for the purpose of performing the Services described herein. Such entry shall include access to the OSSF electrical and physical components, including tanks, by means of manways or risers for the purpose of evaluations required by the manufacturer, and/or regulatory authority rules. If such manways or risers are not in place, Client shall allow and be responsible for payment of required excavation, including labor and materials, necessary to allow access to the OSSF or any required components. Such excavation shall be billed at the rate of \$75.00 per hour for labor, plus materials billed at list price. Contractor shall make only those efforts reasonable under the circumstances to replace excavated soil.
- VII. Application or Transfer of Payment: The fees paid for this agreement may transfer to any subsequent owner(s) of the property on which the OSSF is located. The subsequent owner(s) must sign a similar agreement authorizing Contractor to perform the above-described Services, and accepting Client's responsibilities. The replacement Agreement must be signed and received within 30 days of transfer of ownership. Contractor will apply all funds received from Client first to any past due obligations arising from this Agreement including late charges, return check charges, and charges for repairs or services not paid within 30 days of invoicing. The consumption of the payment in this manner may lead to termination of the agreement by Contractor
- VIII. Termination of Agreement: This agreement may be terminated by either party with 30 days written notice. If this agreement is so terminated by Client, Contractor shall be paid at the rate of \$75.00 per hour for any worked performed or required, but not yet paid. If terminated by Contractor, all amounts outstanding shall be due within thirty days of termination. The party terminating will immediately notify the other party, the equipment manufacturer, and the regulatory agency of the termination.
- IX. Limitation of Liability: In no event shall Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract, tort, or any other theory of liability. In no event shall the Contractor's liability for direct damages exceed payments by the Client under this Agreement.
- X. Severability and Reformation: If any provision in this Agreement shall be held to be invalid or unenforceable for any reason, it shall be reformed to the minimum extent necessary to effect the intent of the Parties. If any provision is such that it cannot reasonably be reformed, it shall be struck from this Agreement and the remaining provisions shall continue to be valid and enforceable.
- XI. Performance of Agreement: Commencement of performance by Contractor under this agreement is contingent on the following conditions: (1) Contractor receiving a fully executed original copy of this agreement. (2) Contractor receiving payment in full of the fee(s) described herein. If the above conditions are not met, then Contractor is from any obligation to perform any portion of this agreement.
- XII. Modification. This Agreement may not be changed or modified except by an instrument in writing, signed by both Contractor and Client.
- XIII. Waiver. Except as otherwise noted in this Agreement, the waiver by other party of a breach of any provision of this Agreement shall not operate or be construed as a continuing waiver or as a consent to or waiver of any subsequent breach hereof.

Client:

Contractor:

- XIV. Headings The Article and Section headings in this Agreement are for the convenience of reference only and do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof.
- XV. <u>GOVERNING LAW AND CHOICE OF VENUE</u>. EACH OF THE PARTIES HERETO HEREBY CONSENTS TO THE EXCLUSIVE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND TO THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS – SAN ANTONIO DIVISION, AS WELL AS TO THE JURISDICTION OF ALL COURTS TO WHICH AN APPEAL MAY BE TAKEN FROM SUCH COURTS, FOR THE PURPOSE OF ANY SUIT, ACTION, OR OTHER PROCEEDING ARISING OUT OF, OR IN CONNECTION WITH, THIS AGREEMENT OR ANY OF THE TRANSACTIONS CONTEMPLATED HEREBY, INCLUDING, WITHOUT LIMITATION, ANY PROCEEDING RELATING TO ANCILLARY MEASURES IN AID OF ARBITRATION, PROVISIONAL REMEDIES AND INTERIM RELIEF, OR ANY PROCEEDING TO ENFORCE ANY ARBITRAL DECISION OR AWARD. EACH PARTY HERETO EXPRESSLY WAIVES ANY AND ALL RIGHTS TO BRING ANY SUIT, ACTION, OR OTHER PROCEEDING IN OR BEFORE ANY COURT OR TRIBUNAL OTHER THAN COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND COVENANTS THAT IT SHALL NOT SEEK IN ANY MANNER TO PROSECUTE OR DEFEND ANY DISPUTE OTHER THAN AS SET FORTH IN THIS ARTICLE XVI OR TO CHALLENGE OR SET ASIDE ANY DECISION, AWARD, OR JUDGMENT OBTAINED IN ACCORDANCE WITH THE PROVISIONS HEREOF. EACH OF THE PARTIES HERETO HEREBY EXPRESSLY WAIVES ANY AND ALL OBJECTIONS IT MAY HAVE TO VENUE, INCLUDING, WITHOUT LIMITATION, THE INCONVENIENCE OF SUCH FORUM, IN ANY OF SUCH COURTS.
- XVI. JURY TRIAL WAIVER. THE PARTIES HEREBY UNCONDITIONALLY WAIVE THEIR RIGHT TO A JURY TRIAL OF ANY AND ALL CLAIMS OR CAUSES OF ACTION ARISING FROM OR RELATING TO THEIR RELATIONSHIP. THE PARTIES ACKNOWLEDGE THAT A RIGHT TO A JURY IS A CONSTITUTIONAL RIGHT, THAT THEY HAVE HAD AN OPPORTUNITY TO CONSULT WITH INDEPENDENT COUNSEL, AND THAT THIS JURY WAIVER HAS BEEN ENTERED INTO KNOWINGLY AND VOLUNTARILY BY ALL PARTIES TO THIS AGREEMENT. IN THE EVENT OF LITIGATION, THIS AGREEMENT MAY BE FILED AS A WRITTEN CONSENT TO A TRIAL BY THE COURT.

MP#0001708 CHRISTOPHER RYAN SEIDENSTICKER Approved by Contractor: Noenell pson Approved by Client:

- XVII. Reservation of Rights. Contractor reserves all rights not specifically granted herein.
- XVIII. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.
- XIX. Counsel. Contractor has previously recommended that Client engage counsel to assist him/her/it in reviewing this Agreement and all other matters relating to it. Contractor and Client shall each bear his/her/its own costs and expenses in connection with the negotiation and documentation of this Agreement.
- XX. Entire Agreement: This agreement contains the entire agreement of the parties, and there are no promises or conditions in any other agreement, oral or written. The Parties expressly disclaim reliance on any prior statements, oral or written, by either party not expressly provided for herein.

Client

Contractor:

## ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: \_\_\_\_\_June 02, 2021

**CANYON LAKE MOBILE HOME ESTATES, LOT 21** 

Proposed Excavation Depth: \_\_\_\_\_N/A

**Requirements:** 

Site Location:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil boring 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 SUR	FACE EVALUAT	ION			
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 12" 1 2 3 4 5	Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 12"	BROWN

SOIL BORING	NUMBER SUR	FACE EVALUAT	ION			
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 1 2	SAME		AS		ABOVE	
3	4					
4	-					
5	-					

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

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

06/02/2011

Date

## **OSSF SOIL EVALUATION REPORT INFORMATION**

Applicant Information:	Site Evaluator Information:
Name: MITCHELL D. THOMPSON	Name: Greg W. Johnson, P.E., R.S., S.E. 11561
Address: c/o 23011 F.M. 306	Address: 170 Hollow Oak
City: CANYON LAKE State: TEXAS	City: <u>New Braunfels</u> State: <u>Texas</u>
Zip Code:78133 Phone:(830) 935-4936	Zip Code: 78132 Phone & Fax (830)905-2778
Property Location: Lot _21 Unit Blk Subd ESTATES	Installer Information:
Street Address: 447 FOREST HILL STREET	
City: CANYON LAKE Zip Code: 7813	3 Address:
Additional Info.:	City: State:
	Zip Code: Phone
<b>Topography:</b> Slope within proposed disposal area: Presence of 100 yr. Flood Zone: Existing or proposed water well in nearby area. Presence of adjacent ponds, streams, water impoundments Presence of upper water shed Organized sewage service available to lot	3       %         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

June 03, 2021

Date:

06/03/201



# DRIP TUBING SYSTEM DESIGNED FOR: MITCHELL D. THOMPSON c/o 23011 FM 306 CANYON LAKE, TX 78133

# **SITE DESCRIPTION:**

Located in Canyon Lake Mobile Homes Estates, Lot 21, at 447 Forest Hill Street, the proposed system will serve a four bedroom mobile residence (1600sf.) situated in an area with shallow Type-III soil as described in the Soil Evaluation Report. 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 Solar Air SA600 LP 600gpd aerobic plant containing a 376-gallon pretreatment tank, an aerobic treatment plant, and a 778-gallon pump chamber containing a submersible 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 300 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 2520sf. 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 flush the system by cycling a 1" ball valve. Solids caught in the disk filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. 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" between rock or tank and drip tubing). The field area will be covered in curlex to prevent erosion and heavily seeded or sodded with a hearty grass such as Bermuda, St. Augustine, etc. prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

# **DESIGN SPECIFICATIONS:**

Daily waste flow: 300 GPD Table III Pretreatment tank size: 376 Gal Plant Size: Solar Air SA600LP 600 gpd (TCEQ Approved) Pump tank size: 778Gal Reserve capacity after High Level: 100 Gal (>1/3 day Req'd) Application Rate: Ra = 0.2 gal/sf Total absorption area: O/Ra = 300 GPD/0.20 = 1500 sf. (Actual 2520 sf.) Total linear feet drip tubing: 1260' Netifim Bioline drip tubing .61 GPH Pump requirement: 630 emitters ( $\hat{a}$ , 61 gph ( $\hat{a}$ , 30 psi = 6.4 gpm Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump Dosing volume: 50-70 gal. Pump Tank Calculations: 778 Gal (18.7 gal/in.) Volume below working level = 15''= 281 gal Working level = 300 gal = 16" Reserve Requirement = >1/3 day = 100 gal. = 5.5" MINIMUM SCOUR VELOCITY (MSV) > 2 FPS IN DRIP TUBING W/ NOM. DIA. 0.55" ID  $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$  $MSV = 2(3.14159((.55/12))^2)/4)*7.48*60$ MSV = 1.5 gpm MIN FLOW RATE x 4 = 6 gpm IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID MSV = 2 FPS ( $\Pi d \uparrow 2$ )/4\*7.48 gal/cf\*60 sec/min  $MSV = 2(3.14159((1.049/12)\uparrow 2)/4)*7.48*60$ 

**MSV** = 5.4 GPM

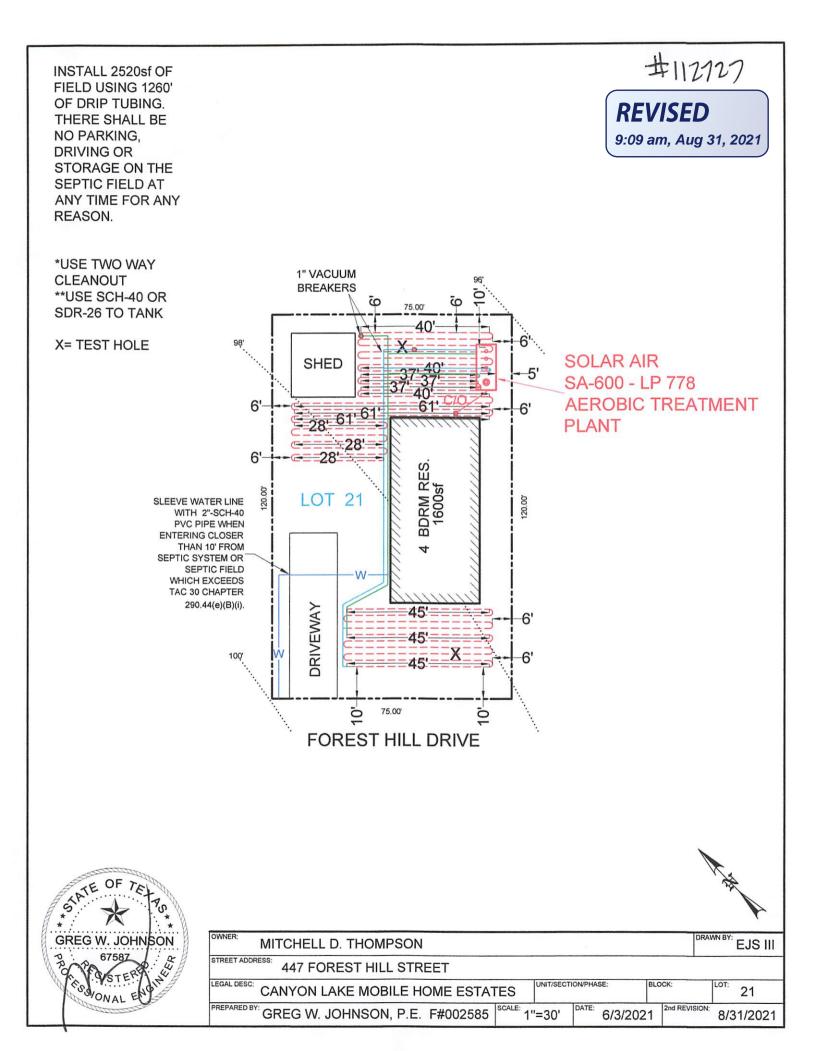
# PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging. Drip tubing 0.61 gph drip tubing to be used in field.

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





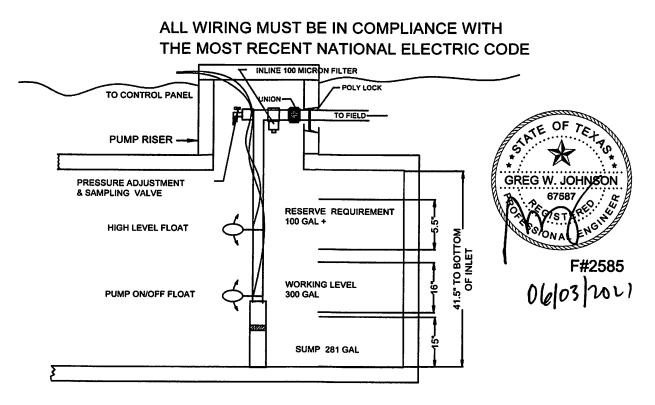
TANK NOTES:

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 SOLAR-AIR SA-600 LP 778 GAL PUMP TANK

# Arkal 1" Super Filter

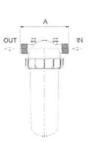
# Catalog No. 1102 0\_\_\_

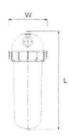
#### Features

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

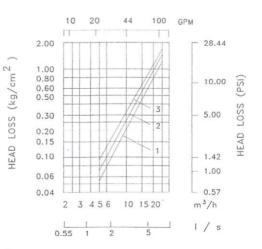




#### Filtration Grades

Blue	(400 micron / 40 mesh)
Yellow	(200 micron / 80 mesh)
Red	(130 micron / 120 mesh)
Black	(100 micron /140 mesh)
Green	(55 micron)

#### Head Loss Chart



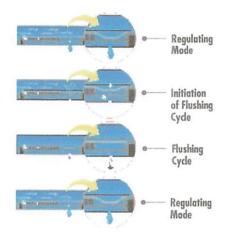
Disc filter, irrigation systems, irrigationglobal.com



# NETAFIM

# Bioline<sup>®</sup> 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.

#### 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.



CHEILTS

112411



#### 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"\*

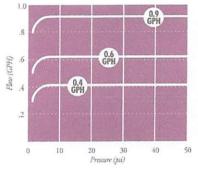
Recommended filtration: 120 mesh

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





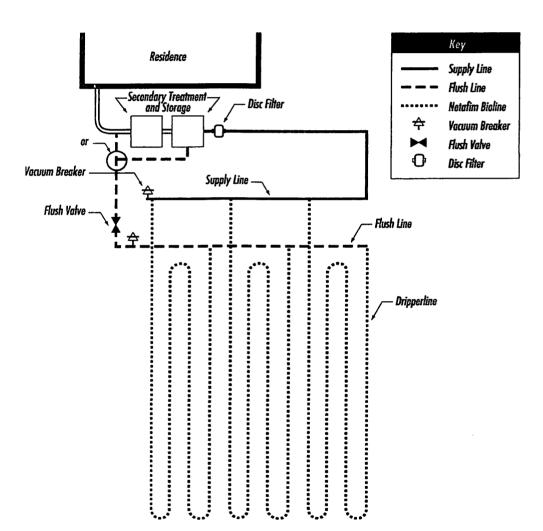
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

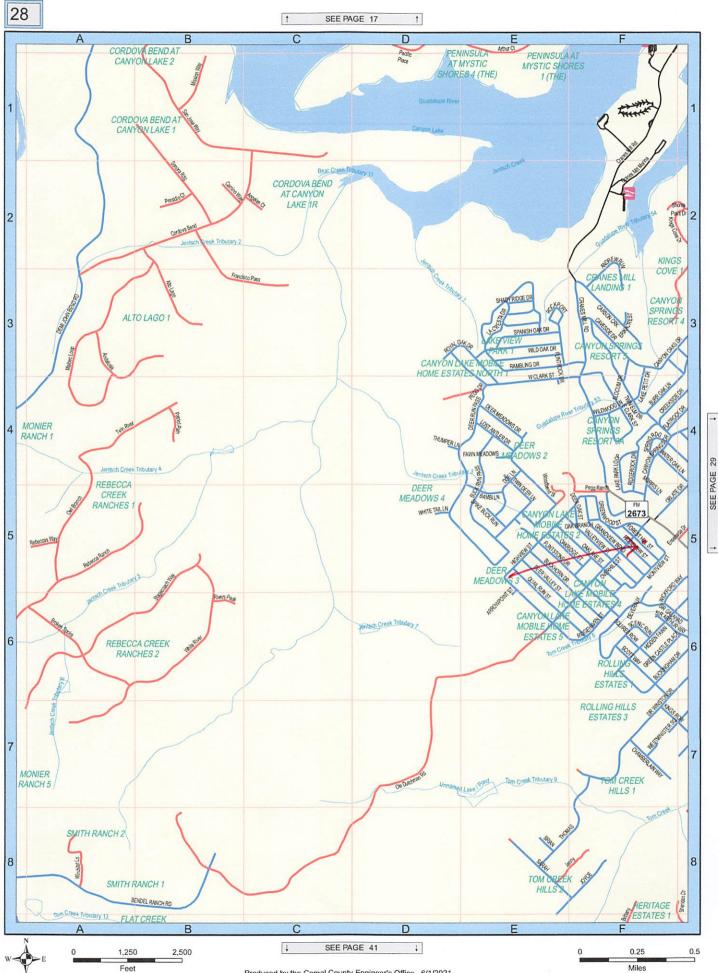
#### SAMPLE DESIGNS

#### SINGLE TRENCH LAYOUT

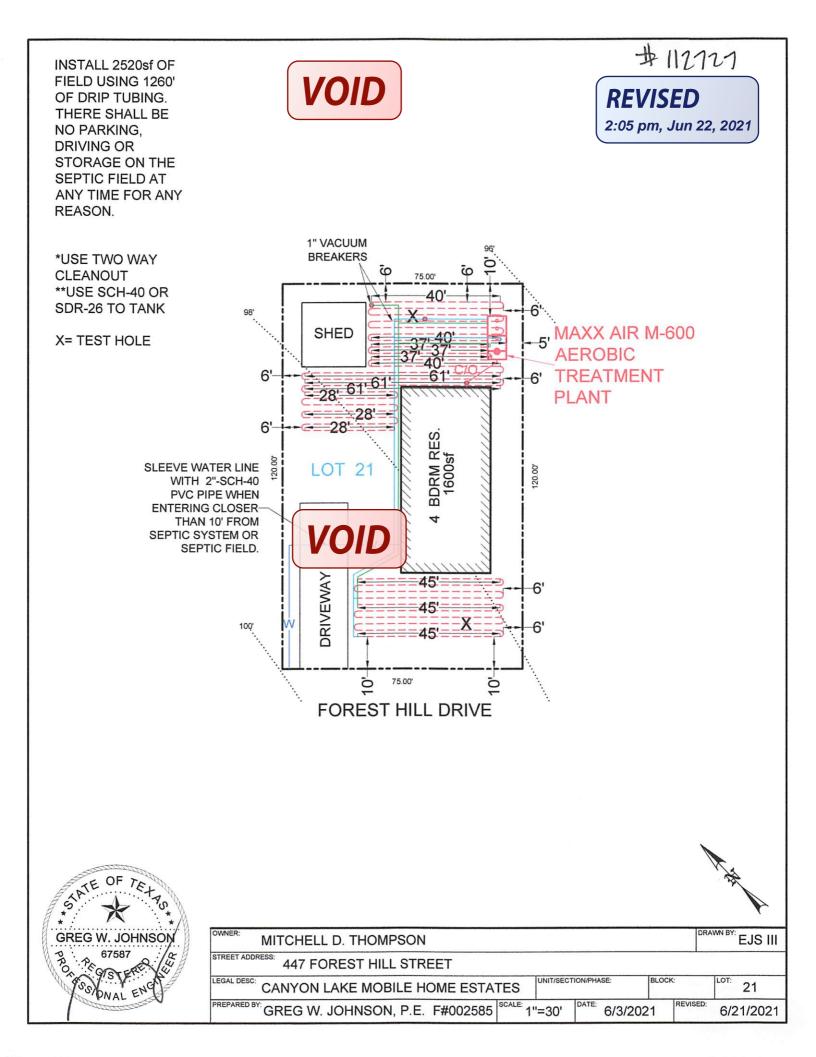
Rectangular field with supply and flush manifold on same side and in same trench;

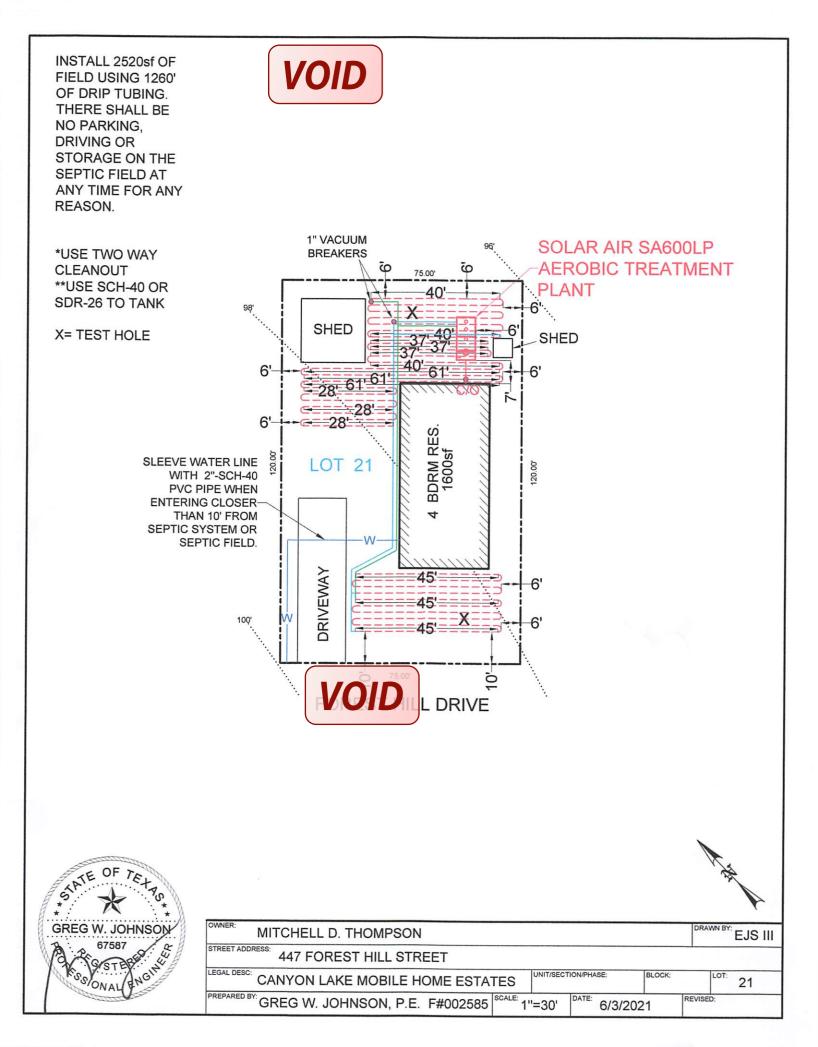
- · Locate supply and flush manifold in same trench
- Dripperlines are looped at the end opposite the supply and flush manifolds
- The longest Bioline length should not exceed 400 ft. Drip fields 200 ft. in length might loop the Bioline once; drip dispersal fields under 100 ft. might be looped twice,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





Produced by the Comal County Engineer's Office - 6/1/2021





#### 202106025649 05/12/2021 08:10:27 AM 1/2

# 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: April 29, 2021

Grantor: Lucinda A. Cruz, a single woman

Grantor's Mailing Address: 212 GLENN DR. CANYON LAKE TY

Grantee: Mitchell D. Thompson

Grantee's Mailing Address: 447 Foresthill Street, Canyon Lake, Comal County, Texas 78133

Consideration: Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.

Property (including any improvements): Lot 21, CANYON LAKE MOBILE HOME ESTATES, a subdivision in Comal County, Texas, according to the map or plat thereof recorded in Volume 1, Page 93, of the Map and/or Plat Records of Comal County, Texas.

Reservations from and Exceptions to Conveyance and Warranty: This conveyance, however, is made and accepted subject to the following matters, to the extent same are in effect at this time: any and all restrictions, covenants, assessments, reservations, outstanding mineral interests held by third parties, conditions, and easements, if any, relating to the hereinabove described property, but only to the extent they are still in effect and shown of record in the hereinabove mentioned County and State or to the extent that they are apparent upon reasonable inspection of the property; and to all zoning laws, regulations and ordinances of municipal and/or other governmental authorities, if any, but only to the extent they are still in effect and relating to the hereinabove described property.

The Contract between Grantor as the Seller and Grantee as the Buyer, if any, may contain limitations as to warranty or other agreed matters; to the extent that the Contract provides for any such limitations or other agreed matters to survive closing and this conveyance, then such limitations or other agreed matters are hereby deemed incorporated by reference. The warranty of title contained in this Deed is hereby expressly excluded from the limitations or other agreed matters referenced in this paragraph.

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.

# FATCO-SA 262 6147

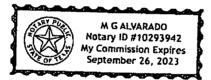
When the context requires, singular nouns and pronouns include the plural.

h. Cy Lucinda A. Cruz

STATE OF TEXAS

COUNTY OF BAXAY

This instrument was acknowledged before me on this 29 day of April 2021, by Lucinda A. Cruz.



Notary Public, State of Texas

AFTER RECORDING RETURN TO: Mitchell D. Thompson 447 Foresthill Street Canyon Lake, Texas 78133

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 05/12/2021 08:10:27 AM CSCHUL 2 Pages(s) 202106025649



## **PS Septic Supply & Service** 23011 FM 306 Canyon Lake, TX 78133

#### Phone: (830) 850-0080 Fax: (830) 935-4932

Site: 447 Forest Hill Street

Printed:8/8/2022

Canyon Lake,

(530) 520-6144

#### To: Mitchell Thompson 447 Forest Hill Street Canyon Lake,

#### Permit #: 112727

Agency: Comal County County: Mfg / Brand: - SOLAR AIRE Treatment Type: Aerobic **Disposal: Drip Emitters** 

Customer ID: 3306 Contract Dates: 12/16/2021 - 12/16/2024 Inspection 2 of 9 Scheduled Date: 8/16/2022 Installed: 12/16/2021 Warranty End: 12/16/2024 GPS Coordinates - Latitude: 29.863445 Longitude: -98.292958

Service Type: Scheduled Inspection Visit Date: 8/8/2022 Method: Grab

Technician: Not Assigned Maint. Provider: Ryan Seidensticker ✓ This counts as a type of "Scheduled Inspection"

Entered By: \_

Tank Lid / Riser: Secured Insp. Port / Plug: Secured

#### Comments

✓ Service Completed

no power to system, home is vacant - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving.

Insp ID #:19979

Provider: Christopher Ryan Seidensticker **PS Septic Supply & Service** 

License Info: MP0001708 Expires:

#### Luna Environmental

Printed:9/22/2023

4222 FM 482 New Braunfels, TX 78132 (830) 312-8776

sherrie@lunaenvironmental.com

# Permit: 112727

Site: 447 Foresthill Street, Canyon Lake, TX 78133 Main Phone: 5305206144

#### Mitchell Thompson 447 Forest Hill Street Canyon Lake,

Agency: Comal County County: Comal County Subdivision: Mobile Home Estates

System Info: MFG: Brand: SO	LAR AIRE		Customer ID: <u>4705</u>
Treatment Type: Aerobic	Disposal Type: Drip Emitte	ers	Insp ID: <u>33261</u>
Installed: <u>12/16/2021</u>	Warranty Expiration: <u>12/16/2024</u>	<u>4</u>	
Visit Details	Entered By: Ryan Seidensticker		GPS Lat: 29.863445 GPS Long: -98.292958
Visit Date: <u>9/22/2023</u>	Entered by. Ryan Seidensticker		Ŭ
Scheduled Date: 8/16/2023		Contract Starts: <u>12/16/2021</u>	Customer Emailed: <u>9/22/2023</u>
Entered On: <u>9/22/2023</u>		Contract Ends: <u>12/16/2024</u>	
Visit Results			
Service Type: Scheduled In	<u>spection</u>		
Count: Inspection 5 of 9			
Method: <u>Grab</u>	License #	Expires	
Technician: Brian Peddle		·	
Provider: Luna Environmen	tal, LLC		<ul> <li>Service Completed</li> </ul>
Aerators: Operational			
Filters: Operational			
Irrigation Pumps: Operational			
Disinfection Device: Operational			
	Tank Lid /	Riser: Secured	
Electric Circuits: Operational	Insp. Port ,	/ Plug: <u>Secured</u>	
Distribution System: Operational			
Drip/Sprayfield Veg: Operational			
Alarm: Operational			

#### Comments

Upon arival system off, tennant turned system off and only turns on once per week, advised tennant that system must stay on at all times. Secured system in the on position. Cleaned drip filter, backflushed drip field - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving. - Copy emailed to the customer on 9/22/2023. - Copy emailed to the customer on 9/22/2023.

PS Septic Supply & Service 23011 FM 306 Canyon Lake, TX 78133

> Phone: (830) 850-0080 Fax: (830) 935-4932

	Printed:4/18/2023	Insp ID #:27621	Permit #: <b>112727</b>			
To: Mitchell Thompson			Main Ph	one: (530) 520-6144		
447 Forest Hill Street			W	/ork:		
Canyon Lake,		Cell Phone: Alt Cell:				
			Customer ID: 3306	5		
Aganavy Camal County			Contract Dates: 12/16/2021 - 12	2/16/2024		
Agency: Comal County County: Comal County	Sub: Mobile Home Estates		Scheduled Date: 4/16/2023	Inspection 4 of 9		
Mfg / Brand: - SOLAR AIRE			1	nstalled: 12/16/2021		
Treatment Type: Aerobic			Warra	inty End: 12/16/2024		
Disposal: Drip Emitters			ordinates: Latitude: 29.863445 Long	jitude: -98.292958		
Service Type: <u>Scheduled</u>	Inspection		✓ This counts as a type of "Se Enternal Day India Enternal	•		
Visit Date: <u>4/17/2023</u>		Entered By: Julie Feibelman				
Method: <u>Grab</u>						
Technician: Mike Hobbs						

Sludge Levels

For Tank 1: NA

For Tank 2: NA

For Tank 3: <u>NA</u> For Tank 4: <u>NA</u>

Maint. Provider: Ryan Seidensticker

Irrigation Pumps: Operational

Disinfection Device: Operational

Aerators: Operational

Filters: Operational

Electric Circuits: <u>Operational</u> Distribution System: <u>Operational</u> Sprayfield Veg: <u>Operational</u>

Alarm: Operational

#### Comments

✓ Service Completed

- Scum on pretreatment-NA - Unable to reach homeowner to scheduled inspection, please contact our office to reschedule 830.850.0080.(need an email & correct phone#) - Inspection Port Plug was noted as N/A prior to leaving.

Site: 447 Foresthill Street, Canyon Lake,

Provider: Christopher Ryan Seidensticker *PS Septic Supply & Service* License Info: MP0001708 Expires: PS Septic Supply & Service 23011 FM 306 Canyon Lake, TX 78133

> Phone: (830) 850-0080 Fax: (830) 935-4932

					()		
	Printed:1/4/2023	Insp ID #:24360	Permit #: <b>1127</b>	'27			
To: Mitchell Thompson 447 Forest Hill Street				Main Pho	ne: (530) 520-6144		
				Wo	ork:		
Canyon Lake,			Cell Phone:				
				Alt C	cell:		
			Custo	omer ID: 3306			
Agonovy Comol County			Contract Dates: 1	2/16/2021 - 12/	/16/2024		
Agency: Comal County County:			Scheduled Date: 12	2/16/2022	Inspection 3 of 9		
Mfg / Brand: - SOLAR AIRE				In	stalled: 12/16/2021		
Treatment Type: Aerobic				Warran	nty End: 12/16/2024		
Disposal: Drip Emitters			ordinates: Latitude: 29.	863445 Longit	tude: -98.292958		
Service Type: <u>Scheduled Inspection</u> Visit Date: 12/28/2022				s a type of "Scl Ashley Spitze	heduled Inspection" enberger		
Method: Grab							
Technician: Not Assigned							
Maint. Provider: Ryan Seidensticker							

Aerators: <u>Operational</u> Filters: <u>Operational</u> Irrigation Pumps: <u>Operational</u> Disinfection Device: <u>Operational</u> Sludge Levels For Tank 1: <u>12</u> For Tank 2: <u>NA</u>

Electric Circuits: <u>Operational</u> Distribution System: <u>Operational</u> Sprayfield Veg: <u>Operational</u> 
 Tank Lid / Riser:
 Secured

 Insp. Port / Plug:
 Secured

Alarm: Operational

#### Comments

✓ Service Completed

- Scum on pretreatment 0 - Red switch secure - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving.

Site: 447 Forest Hill Street, Canyon Lake,

Provider: Christopher Ryan Seidensticker *PS Septic Supply & Service* License Info: MP0001708 Expires: