

License to Operate On-Site Sewage Treatment and Disposal Facility

Location Description: 607 CIELO VISTA CANYON LAKE, TX 78133 Subdivision: Ensenada Shores at Canvon Lake Unit: Unit: 2 Lot: 260 Block: Acreage: Type of System: Aerobic	110223
Subdivision: Ensenada Shores at Canyon Lake Unit: 2 Lot: 260 Block: Acreage: Type of System: Aerobic Surface Leignetic	
Type of System: Aerobic	
Surface Infigation	
Issued to: Lewis Holman Oliphant & Brenda Kay Oliphant	

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 facility has not been remodeled and is functioning properly.

> Licensing Authority **Comal County Environmental Health**

ENVIRONMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEALTH CC

				Comal Count	ty Environmen	tal				
			-	Health OSSF	Inspection Sh	eet				
	Installer Name: Paul Swoyer				OSSF Installer #: OSC	026238				
	1st Inspection Date: 06-02	-20	20	2nd Inspection Date	e: 6/5/20	3rd Inspection	Date:	6-08	-2020	
	Inspector Name: B.Olvera			Inspector Name:	Mike T.	Inspector	Name:]	<u>B. Ol</u>	vera	
	Permit#: 110223			l l	Address: 607 Cielo V	Vista / Ense	nada S	hore	s @ Cany	on Lake
I	Description	Am	vser	Citations	Notes		1st In	sp.	2nd Insp.	3rd insp.
	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	06.0	22	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)	wot cover	end.	06.07	A	6/5/zo	6Alzo
	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)(II) 285.32(b)(1)(E)(ii)	•					
	PRETREATMENT Grease Interceptors if required for			285.32(b)(1)(E)(ii)(l) 285.34(d)						

Tank Set Level No Leaks Operational Revision for cement sand Sleeved under driveway

۶

Call Justin w/ SwoyER. Not Couched.

MT-619120 still not couched. Covered Called Roy/Swoyen. F. Inrightly Reingo, Fee

Paid

, •

Ξ.

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)			4	
	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)			1	
	Minimum Requirements		285.32(b)(1)(C)(i)				
			285.32(b)(1)(B)			-	
		{	285.32(b)(1)(A)		l .		
			285.32(b)(1)(E)(iv)		1		
8	ALL TANKS Includes All Cond	<u> </u>				+	
	ALL LANKS INSTALLED ON 4 Sand	90	285.32(b)(1)(F)		20		
	custion Proper backini Used	Nº 1	285.32(b)(1)(G)		02		
	· · · · ·	66.	285.34(b)		00		1
9		ļ ~			<u> </u>	+	
	SEPTIC TANK Inspection / Clean		€ ar			1	
	UUT POIT & Risers Provided on				1]
	Chanks Burled Greater than 12		285.38(0)			}	
	Sealed and Capped						
10	CENTIC TANK Consider under int		ļ	<u></u>	╅╌──────	+	
	ISENIC JANK Secondary restraint				1		1
	System provided						Į.
	factored to lid or cast into tank				Į		
1	SEPTIC TANK Riser can protected	}	205 29(4)		}	1	1
	against unauthorized intrusions	1	285.38(0)				
	Ocular and		203.30(8)				
բ	SEDTIC TANK Tank Volume	+			+	+	+
	Installed				(1
12						+	
	PUMP TANK Volume Installed						
13		┼╌┰╌╸			+	+	+
	Installed			\parallel NA_600			
	moldiew						
14		╶┼╌╂╍			+	+	+
	Manufacturer						
ł				Mayy A1r	1		
	Model						
	Number						1
15	DISPOSAL SYSTEM Absorptive	╶┼╌╌┹╌╴	285.55(a)(4)				
	DISCORE STOLENI AUSO PLIVE		285.33(a)(1)				1
			285.33(a)(2)		{		
			285.33(a)(3)				
10	DISPOSAL SYSTEM Leaching		285.33(a)(1)		1		
	Chamber		285.33(a)(3)	}	}		
		1					
1.	,		200.00(8)(2)				
f	DISPOSAL SYSTEM Evapo-		285.33(a)(3) 285.33(a)(4)				
	transpirative		285.33(a)(1)				
			285.33(a)(2)				
1	8			<u>1</u>	_1		L

.

ι.

No.	Description	Anwser	Citations	Notes	ist insn.	2nd inen	and loss
1	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)			area maps	Addition one
1							
19							
	DISPOSAL SYSTEM Soil		205 22/11/12				
20	Substitution		285.33(d)(4)			1	
-	DISPOSAL SYSTEM Pumped						
	Efficient		285.33(a)(3)				
	Linuent		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)				
			285.33(a)(1)				
22						1	.
	DISPOSAL SYSTEM Mound		285.33(a)(3)				
			285.33(a)(1)]	
			285.33(a)(2)				
			285,33(a)(4)				
23			203.33(0)(4)				
	DISPOSAL SYSTEM Other		295 22/4/(6)				
	(describe) (Approved Design)		205.33(0)(6)				
	recorded (Approved DesiBil)		285.33(c)(4)				
24							
	DRAINFIELD Absorptive Drainline						
	3" PVC			•			
	or A" PVC		1				
25							
26	DRAINFIELD Area installed						
<u> </u>	DRAINFIELD (evel to within 1 inch						
1	and 25 feat and within 2 inchos						
	per 25 reet and within 5 menes		285.33(b)(1)(A)(v)				
	over entire excavation						
27							
Γ	DRAINFIELD Excavation Width						
	DRAINFIELD Excavation Depth		1				
	DRAINFIELD Excavation						
	Separation DRAINFIELD Depth of						
	Bergus Madie						
1	Porous Media						
	IDRAINFIELD Type of Porous Media						
						-	
128							
	DRAINFIELD Pipe and Gravel		285.33(b)(1)(F)				
29	Geotextile Fabric in Place						
	DRAINFIELD Leaching Chambers						
	DRAINFIELD Chambers - Open End						
	Plates w/Solash Plate Inspection						
	Port & Closed End Distor in Disco						
	Fort & Closed End Plates in Place		285.33(c)(2)				
	(per manufacturers spec.)					1	
30						<u> </u>	
	LUW PRESSURE DISPUSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate		285.33(d)(1)(C)(i)				
	Separation Distance between						
	Trenches						
31		1					

• •

•

				Notes	1st insp.	2nd insp.	3rd insp.
al	Description	Anwser	Citations	Notes]
EFF	LUENT DISPOSAL SYSTEM Utilized						1
Ont	y by Single Family Dwelling					1	
EFF	LUENT DISPOSAL SYSTEM						1
Top	ographic Slopes						
< 2	0% EFFLUENT DISPOSAL SYSTEM		285 33(h)(3)(A)			1	
Ad	equate Length of Drain Field (1000		205.33(b)(3)(A)		1		
Lin	ear ft. for 2 bedrooms or Less		285.55(5)(5)(4)				1
8.8	an additional 400 ft. for each		285.35(0)(5)(0)				1
ad	ditional Degroom)		285.91(13)				
EF	FLUENT DISPOSAL STSTEM EDICITI		285.33(b)(3)(D)				
	paration of 1ft on bottom and 2 ft. to		285.33(b)(3)(F)				
) Se	strictive horizon and ground water						
re	spectfully						
E	FLUENT DISPOSAL SYSTEM Lateral						1
D	rain Pipe (1.25 - 1.5" dia.) & Pipe Hole	5					1
1	3/16 - 1/4" dia. Hole Size) 5 ft. Apart						
32			+		90		
	EROBIC TREATMENT UNIT IS	1 5	2		1 ~		
	erobic Unit Installed According	1 ~	285.32(c)(1)		60.	1	
.	o Approved Guidelines.	60			0		
33	······································	<u>P</u>					
F 1	AEROBIC TREATMENT UNIT						1
	inspection/Clean Out Port &					l.	
	Risers Provided						
	ASDODIC TREATMENT UNIT						
	AEROBIC INEATIMETER SISTEM					1	
	Secondary restraint system						
	provided AERUBIC TREATINEI					l	
	UNIT Riser permanently fastene	°					
	to lid or cast into tank						
	AEROBIC TREATMENT UNIT Rise	r I					ļ
1	cap protected against						
	unauthorized intrusions			·			
-	AFROBIC TREATMENT UNIT						1
	Chierington Properly Installed V	rith					
	chiorinator Property instance						
35	Chlorine Tables II Frace.	an					
	PUMP TANK IS the romp for	er					
	approved concrete talk of othe	•					
1	acceptable materials &						
	construction		1				1
	PUMP TANK Sampling Port						1
	Provided in the Treated Efflue	nt					
1	Line						
	PUMP TANK Check Valve and	'or				ļ	
	Anti- Siphon Device Present V	/hen			ļ	ļ	
ļ	Required					1	
	PUMP TANK Audible and Visu	al					
	Wigh Water Alarm Installed O	n l			1		
	Constante Circuit From Pumn						
1	6 Separate Circuit Hour Chip	Out					
1	PUMP TANK Inspection/Clea				1		l
1	Port & Risers Provided	aint			l l		
	PUMP TANK Secondary restr	anu					
	system provided						ł
	PUMP TANK Riser permanen	nuy			ļ		
ļ	fastened to lid or cast into t	ank	4		1	l	
	PUMP TANK Riser cap prote	cted				1	
	against unauthorized intrus	ions					
					١	1	
	PLIMP TANK Secondary res	traint					
	a loutem provided						
	DUMP TANK Electrical						
					1		
	Connections in Approved J	unction			and the second		

، ۶

۰,

No.	Description	Anwser	Citations	Notes	1st insp	. 2nd Insp.	3rd in	sp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	06.02.29	285.33(d)(2)(G)(iii)(ii)285.3 3(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)(ii) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(i)		06.01-1	<i>ò</i>	06-08	3-20
	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)					
41	APPLICATION AREA Area Installed		······································					
42		 			ļ			
43	PUMP TANK Meets Minimum Reserve Capacity Requirements							
44	PUMP TANK Material Type & Manufacturer							
45	PUMP TANK Type/Size of Pump Installed							

			Comal Count	ty Enviro	onmental		ď		
- et			ealth OSSF	Inspect	ion Sheet		· · ·		
In	staller Name: Paul Swoyer			OSSF Instal	er #: <u>0\$0026</u>	238			
	1st Inspection Date: 06-02	-2020	2nd Inspection Dat	e: 6/5/	20 3r	d Inspection	Date: 06-08	3-2020	
١	nspector Name: B.Olvera		Inspector Name:	Mike	T.	inspector I	Name: <u>B. O</u>	vera	
Р	ermit#: 110223			Address: 60	7 Cielo Vista	A / Enser	nada Shore	es @ Cany	on Lake
No.	Description	Anwser	Citations		Notes	- 6 - 5	1st Insp.	2nd Insp.	3rd Insp.
SI Ci Si	TE AND SOIL CONDITIONS & ETBACK DISTANCES Site and Soil onditions Consistent with ubmitted Planning Materials	06-02-29	285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii)	6151 wot	Loverd	I. 2010 2010 - 2010 2010 - 2010	06.02.20	6/5/za	6Alze
SI SI D N	ITE AND SOIL CONDITIONS & ETBACK DISTANCES Setback istances feet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)		ėj,				
S fr ((S	EWER PIPE Proper Type Pipe om Structure to Disposal System Cast Iron, Ductile Iron, Sch. 40, DR 26)		285.32(a)(1)						
S to F	EWER PIPE Slope from the Sewer o the Tank at least 1/8 Inch Per oot		285.32(a)(3)						
S T (,	EWER PIPE Two Way Sanitary - ype Cleanout Properly Installed Add. C/O Every 100' &/or 90 legree bends)		285.32(a)(5)						
5 F	RETREATMENT Installed (if								+
r	equired) TCEQ Approved List		285.32(b)(1)(G)285.32(b)(1						
F	PRETREATMENT Septic Tank(s)	- 112 - 112)(E)(iii)						
	weet wilmmum kequirements	· .	285.32(b)(1)(E)(iv) 285.32(b)(1)(F)	N	*				
		·	285.32(b)(1)(B)						
		2.0	285.32(b)(1)(C)(i)						
		2	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)(ii)(II) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(I)						
6	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)						

06-02-2020 BMO

;

Tank Set Level No Leaks Operational Revision for cement sand Sleeved under driveway

RAT-615/20 Call Justin w/ Swoyer. Not Coverded.

MT-6/9/20 Still not Couched. Called Roy/Swoyen.

`.

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)				
8	ALL TANKS Installed an All Court						
	ALL LANKS Installed on 4" Sand	0	285.32(b)(1)(F)		20		
	Custion/ Proper Backfill Used	N	285.32(b)(1)(G)		02.		
[60	285.34(b)		00		
9		<u> </u>					
	SEPTIC TANK Inspection / Clean						
	Juit Port & Risers Provided on				1	,]
	Franks Buried Greater than 12"		285.38(d)				
					1		
10							
	SEPTIC TANK Secondary restraint						
	factored to lid or cast into tank						
1	SEPTIC TANK Riser can protected		205 201 1]		
	against unauthorized intrusions		285.38(d)				
	apaulat anaathonzea intraaiona		285.38(e)				
11					+		
	Installed						
12							
	PUMP TANK Volume Installed						
13							
	Installed						
	וואנמוכע			101-000			
14			·		+		<u> </u>
	AEROBIC TREATMENT UNIT						
				Movy Air			
	AEKUBIC I KEATMENT UNIT			Ινιαλλ ΠΠ			
	Number						
15		┼╌┸──	285.55(a)(4)				
	DISPOSAL SYSTEM Absorptive		285.33(a)(1)				
			285.33(a)(2)]		
			285.33(a)(3)				
16	DISPOSAL SYSTEM Leaching		285.33(a)(1)	t			+
	Chamber		285.33(a)(3)				
	i chamber		285.33(a)(4)		1		
			285.33(a)(2)				
17	DISPOSAL SYSTEM EVADO-		283:33(8)(3)				
	Itransnirative		285.33(a)(4)				
	a anapirative		285.33(a)(1)				
18			285.33(a)(2)				

• •

۰,

No.	Description	Anwser	Citations	Notes	1st Insn.	2nd insn	ant loss
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)			auto mapi	Junitah.
	9						
	1 191					.	
19							
	DISPOSAL SYSTEM Soil		205 22/1///				
20	Substitution		285.33(d)(4)				
	DISPOSAL SYSTEM Pumped		205 22(-)(2)				
	Effluent		285.33(a)(3)				
			285.33(a)(1)				
21	s		285.33(a)(2)				
1	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3)				
			285.33(a)(2)				
			285.33(a)(4)				
			285.33(a)(1)				
22							
	DISPOSAL SYSTEM Mound		285.33(3)(3)				
1			285.33(a)(1)			4	
			285.33(a)(2)				
			285.33(a)(4)	· · · · · · · · · · · · · · · · · · ·			
23							
	DISPOSAL SYSTEM Other		285.33(d)(6)				
	(describe) (Approved Design)		285.33(c)(4)				
24				•			
	DRAINFIELD Absorptive Drainline						
	2ª DVC			•			
25							
26	DRAINFIELD Area Installed						
1	DRAINFIELD I avail to within 1 inch						
	por 2E fact and within 2 inchos						
	per 25 reet and within 5 menes		285.33(b)(1)(A)(v)				
	over entire excavation						
27							
1	DRAINFIELD Excavation Width						-
	DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation		-				
	Separation DRAINFIELD Depth of						
	Porous Media						
	DRAINFIELD Type of Porous Media						
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
28							
1	DRAINFIELD Pipe and Gravel -	~	305 33/L//4//E				
29	Geotextile Fabric in Place		203.33(D)(1)(E)				
	DRAINFIELD Leaching Chambers						
	DRAINFIELD Chambers - Open End			· · · · · · · · · · · · · · · · · · ·			
	Plates w/Splash Plate Inspection						
	Port & Closed End Plates in Place						
	(per manufacturars coor)		285.33(c)(2)				
1	(per manufacturers spec.)						
30							
F	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate		205 224 344 4640				
	Separation Distance between		285.55(d)(1)(C)(i)				
	Tranchas						
31	in chichea						

•

	Description	Anwser	Citations	Notes	1st insp.	2nd Insp.	3rd Insp.
No.			- Clations				
	Chruch I Disrusal Staten Utilized						
	Topographic Slopes						
	< 2.0% EFFLUENT DISPOSAL SYSTEM					1	
	Adequate Length of Drain Field (1000		285.33(b)(3)(A)		ł		
	Linear ft. for 2 bedrooms or Less		285.33(b)(3)(A)				
	& an additional 400 ft. for each		285.33(b)(3)(B)		1		
	additional bedroom)		285.91(13)				
	Depth of 18 inches to 3 ft. & Vertical		285. 3 3(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				1		
	Urain Pipe (1.25 - 1.5 dia.) & Pipe Holes	l					
	(3/16-1/4 dia: hole size / 5 ht Apart						
132	AFROBIC TREATMENT UNIT IS	0			2	0., 1	
	Aerobic Unit Installed According	1 2	285 32(6)(1)		1 Sr	e de la constante de	
	to Approved Guidelines.	60	203.32(0)(1)		00		
33		N~	· •		+		
	AEROBIC TREATMENT UNIT						
	Inspection/Clean Out Port &						
	Risers Provided						
	AEROBIC TREATMENT UNIT	11					
	Secondary restraint system		5				
	provided AEROBIC TREATMENT		-				
	UNIT Riser permanently fastened						
	to lid or cast into tank						
	AEROBIC TREATMENT UNIT Riser						
	cap protected against						
20	unauthorized intrusions						
F	AEROBIC TREATMENT UNIT						
	Chlorinator Properly Installed wit	h				2	1
35	Chlorine Tablets in Place.				<u></u>		
F	PUMP TANK Is the Pump Tank ar						
	approved concrete tank or other						1
	acceptable materials &						1
	construction						
	PUMP TANK Sampling Port					l l	
	Provided in the Treated Effluent						
	Line						
	PUMP TANK Check Valve and/or					1	
	Anti- Siphon Device Present Wh	en					
	Required						
	PUMP TANK Audible and Visual	1					
	High Water Alarm Installed on						
3	6 Separate Circuit From Pump						
f	PUMP TANK Inspection/Clean C	ut		1		1	
	Port & Risers Provided						
	PUMP TANK Secondary restrain	t					
	system provided			1			
	PUMP TANK Riser permanently						
1	fastened to lid or cast into tank					1	
	PUMP TANK Riser cap protecte	d					
	against unauthorized intrusion	;					
	37				_		
	PUMP TANK Secondary restrai	nt			ļ		
	38 system provided						
	PUMP TANK Electrical					ļ	
	Connections in Approved Junc	tion					
	39 Boxes / Wiring Buried				_		

• •

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	00.02.20	285.33(d)(2)(G)(iii)(II)285.3 3(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)(ii) 285.33(d)(2)(G)(iii)(1)		06:02:20		06-08-20
	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)				
41	APPLICATION AREA Area Installed						
42	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						

	Comal Cour Comal Cour	nty Environ F Inspection	mental		
Installer Name: Paul Swoyer		OSSF Installer #	: OS0026238		
1st Inspection Date: 06-02-2	2020 2nd Inspection D	ate: 6/5/20	Srd Inspection	Date: 06-08-	2020
Inspector Name: B.Olvera	Inspector Name:_	Mike T	Inspector	Name: <u>B. Olv</u>	era
Permit#: 110223		Address: 607 C	cielo Vista / Ense	nada Shores	@ Canyon Lak
No. Description	Anwser Citations		Notes	1st Insp.	2nd Insp. 3rd Ins
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)(iv) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(ii)	615/20 Not c	ovierd.	06:02:20	15/20
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)				
5 PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements	285.32(b)(1)(G)285.32(b)(:)(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)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)				
Interceptors if required for 7 commercial	285. 3 4(d)				

06-02-2020 BMO

,•

Tank Set Level No Leaks Operational Revision for cement sand Sleeved under driveway

,*

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	SEPTIC TANK Tank(s) Clearly		285.32(b)(1)(E)	r			
	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)(l)				
	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)			1	
			285.32(b)(1)(E)(iv)				
8					_		
	ALL TANKS Installed on 4" Sand		20E 22(L)/1)/E)		0		
	Cushion/ Proper Backfill Used	22	205.52(0)(1)(F)		N		
	v	600	205.52(0)(1)(0)		00		
9		00	203.34(0)		0-		
	SEPTIC TANK Inspection / Clean						
	Out Port & Risers Provided on						
	Tanks Buried Greater than 12"		285.38(d)				
	Sealed and Capped						
10				•			
<u> </u>	SEPTIC TANK Secondary restraint						
	system provided			1			
	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)				
111							
	SEPTIC TANK Tank Volume						
1.	Installed						
12							
	PUMP TANK Volume Installed					1	
13	ASPORIC TREATMENT UNIT Size	1.1.1.1.2.56					
	Installed		State State		1. 201	2월 - 가능	
1	MISLANED						
14							
	AEROBIC TREATMENT UNIT						
	Manufacturer	「「」の		1 NAATTA Ain	100 No. 1		
	AEROBIC TREATMENT UNIT			IVIAXX AII	and the second		
	Model						
15	Number	一個認識	(0) 55(4)(4)			1. A.	13%
	DISPOSAL SYSTEM Absorptive		285.33(a)(1)				
			285.33(a)(2)				
			285.33(a)(3)				
16			285,33(a)(1)				
	DISPOSAL SYSTEM Leaching		285.33(a)(3)				
	Chamber		285.33(a)(4)				
		1	285.33(a)(2)				
17			203.33(8)(3)				
	DISPOSAL SYSTEM Evapo-		285.33(a)(4)				
	transpirative		285.33(a)(1)				1
1.0			285.33(a)(2)				

٠

.

No.	Description	Anwser	Citations		Notes		1st insp.	2nd Insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)						F
			n series and s						
		i gadi	standar i serie de la composición de la Esta de la composición						
19					1				9.916 · · ·
	DISPOSAL SYSTEM Soil		285 33(d)(A)						
20	Substitution		203.33(0)(4)						
	DISPOSAL SYSTEM Pumped		285.33(a)(3)						
	Effluent		285.33(a)(1)			en Store i			
21		1.23	285.33(a)(2)						
21	DISPOSAL SYSTEM Grouplloss Ping		285.33(a)(3)	and the second				<u> </u>	
	DISPOSAL STSTEIN Graveness Fipe		285.33(a)(2)						
			285.33(a)(4)						
	·		285.33(a)(1)						
22									
	DISPOSAL SYSTEM Mound		285.33(a)(3)						
			285.33(a)(1)						
			285.33(a)(2)						
			285.33(a)(4)						
23		<u> </u>	50 (1988) (28	, stassinger i d			4		
	DISPOSAL SYSTEM Other		285.33(d)(6)						
	(describe) (Approved Design)		285.33(c)(4)						
24									
	DRAINFIELD Absorptive Drainline								
	3" PVC								
25	or 4" PVC								
25	DRAINFIELD Area Installed				1	1000 - 1000 360			
26							ita en ar Renaula.		1997-00 1997-00 1997-00
	DRAINFIELD Level to within 1 inch								
	per 25 feet and within 3 inches		285 22(h)/1)/A)(J)						de la companya de la
	over entire excavation		203.33(0)(1)(1)(4)(4)			122			
27						1.4. 2.2			
	DRAINFIELD Excavation Width					. <u>1</u>			
	DRAINFIELD Excavation Depth								
	DRAINFIELD Excavation					- 영화 방송			
	Separation DRAINFIELD Depth of	l		e de la companya de l					
	Porous Media								126
	DRAINFIELD Type of Porous Media								
				and the second				₽ in D	
								1	
28	+							 	1984.1. 1: No 2
	DRAINFIELD Pipe and Gravel -		285.33(b)(1)(E)						
29	Geotextile Fabric in Place		(~/(-/(-/						
	DRAINFIELD Leaching Chambers							Ś	
1	DRAINFIELD Chambers - Open End				87 (F) 3 (
	Plates w/Splash Plate, Inspection						A		
ļ	Port & Closed End Plates in Place		285.33(c)(2)				이 이 이 같았		
	(per manufacturers spec.)							han a sha	
									No.
			a an		i ta da constante 1928 estavas			1	
30		<u> </u>			•				
	LOW PRESSURE DISPOSAL								
	ISYSTEM Adequate Trench Length			l					
	& Width, and Adequate		285.33(d)(1)(C)(i)	1					
	Separation Distance between							1	
51	Trenches			ļ				1	
121	1	1		1			1	1	

٠

No	Description	Anwser	Citations		Notes	538-	1st insp.	2nd Insp.	3rd Insp.
NO.	FFELUENT DISPOSAL SYSTEM Utilized								
	Only by Single Family Dwelling								
	EFFLUENT DISPOSAL SYSTEM								
	Topographic Slopes								
	< 2.0% EFFLUENT DISPOSAL SYSTEM		-	1					
	Adequate Length of Drain Field (1000	1	285.33(b)(3)(A)						
	Linear ft. for 2 bedrooms or Less		285.33(b)(3)(A)					1	
	additional bedroom)		285.33(b)(3)(B)						
	EFFLUENT DISPOSAL SYSTEM Lateral		285.91(13)]					
	Depth of 18 inches to 3 ft. & Vertical	1	285.33(b)(3)(D)						
	Separation of 1ft on bottom and 2 ft. to		285.33(b)(3)(F)	1					
	restrictive horizon and ground water								
	respectfully								
	Drain Pine (1.25 - 1.5" dia.) & Pipe Holes			5					
	(3/16 - 1/4" dia. Hole Size) 5 ft. Apart]	
32		<u> </u>							
	AEROBIC TREATMENT UNIT IS	00					2		
1	Aerobic Unit Installed According	N	285.32(c)(1)				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	to Approved Guidelines.	6					06		
33		\vdash							
1		1					1.000 C		
	Inspection/Liean Out Port &								
					and the second sec				
1	AEROBIC IREATMENT UNIT			a de la caractería.					
	provided AFPORIC TREATMENT								
	LINIT Riser permanently fastened								
	to lid or rast into tank								
	AFROBIC TREATMENT LINIT Riser								
	can protected against	1.18					l i i i i i i i i i i i i i i i i i i i	No.	
	unauthorized intrusions								
34									
	Chloringtor Properly Installed with								
20	Chlorine Tablets in Place						1.2		n an teann a Teanna an teann an tea
F	PUMP TANK Is the Pump Tank an					_			
	approved concrete tank or other								
	acceptable materials &								
	construction			1					
	PUMP TANK Sampling Port		1						
	Provided in the Treated Effluent						1		
	Line						1	[
	PUMP TANK Check Valve and/or						ļ		
	Anti- Siphon Device Present Whe	n							
	Required						1		
	PUMP TANK Audible and Visual								
	High Water Alarm Installed on			1					
36	Separate Circuit From Pump	<u> </u>			······		+		-
	PUMP TANK Inspection/Clean Ou	IT							
1	Port & Risers Provided								
	PUMP TANK Secondary restraint	1					1		
	fastanad to lid or cast into tank			1			1		1
	DUMP TANK Riser can protected						ļ		
	against unauthorized intrusions								
				ł					
3	7 DI IMP TANK Secondary restraint	-							
1	3 system provided								
1	PUMP TANK Electrical	T							
	Connections in Approved Junction	on							
3	9 Boxes / Wiring Buried								

٠

7

No	Description	Anwser	Citations		Notes	 1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	06.02.20	285.33(d)(2)(G)(iii)(II)285.3 3(d)(2)(G)(iii)(II)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)(ii) 285.33(d)(2)(G)(iii)(I)			06027Q		06-08-20
40	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)					
42	APPLICATION AREA Area Installed							
43	PUMP TANK Meets Minimum Reserve Capacity Requirements					 		
	PUMP TANK Material Type &							
44	Manufacturer			· · ·		 		
45	IPUMP TANK Type/Size of Pump							

		Comal Cour Health OSS	nty Environmental F Inspection Sheet			
Installer Name: Paul Swoyer	•		OSSF Installer #: OS00262	.38		
1st Inspection Date: 06-02	2-2020	2nd Inspection Da	ate: 3rd	Inspection Date:		
Inspector Name: B.Olvera		Inspector Name:		Inspector Name:		
Permit#: 110223			Address: 607 Cielo Vista	/ Ensenada S	Shores @ Can	yon Lake
No. Description	Anwser	Citations	Notes	1st Ir	nsp. 2nd Insp.	3rd Insp.
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	06-02-2	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)(iii) 285.30(b)(1)(A)(ii)		9 ^{6,0}	-29	
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards 2		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) 3		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)(1) 285.32(b)(1)(E)(ii)(1) 285.32(b)(1)(E)(ii)(1)				
PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

06-02-2020 BMO

Tank Set Level No Leaks Operational Revision for cement sand Sleeved under driveway

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(h)(1)(F)				
	Compartments Provided with		285.32(b)(1)(F)(iii)				
	Baffle SEPTIC TANK Inlet Flowline		205.52(5)(1)(E)(ii) 285.22(b)(1)(E)(ii)(II)				
	Greater than		285.52(b)(1)(E)(II)(II)				
	3" and " T " Provided on Inlet and		205.32(b)(1)(E)(II)(I)				
	Outlet		285.32(D)(1)(E)(I)				
	SEDTIC TANK Sontia Tank(s) Most		285.32(D)(1)(D)				
	Minimum Doquiromonts		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)				
8							
	ALL TANKS Installed on 4" Sand	0			9		
	Cushion/ Proper Backfill Used	<u></u>	285.32(b)(1)(F)				
		, QV	285.32(b)(1)(G)		10,0		
		00	285.34(b)		00		
9	SEPTIC TANK Inspection / Clean						
	Out Port & Risers Provided on						
	Tanks Buried Greater than 12"		205 20(4)				
	Sealed and Canned		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	DUMP TANK Volume Installed						
12	FOMF TANK VOIdine installed						
13							
	Installed						
	linstalled						
14							
1	AEROBIC TREATMENT UNIT						
	Manufacturer						
	AEROBIC TREATMENT UNIT			Waxx Alf			
	Model						
15	Number						
	DISPOSAL SYSTEM Absorptive		203.33(d)(4)				
1			203.33(d)(1)				
1			285.33(a)(2)				
16			285.33(a)(3)				
	DISPOSAL SYSTEM Leaching		285.33(a)(1)				
1	Chamber		285.33(a)(3)				
1			285.33(a)(4)				
17			285.33(a)(2)				
1/	DISPOSAL SYSTEM Evano-		203.33(a)(3)				
1	transpirative		285.33(a)(4)				
1			285.33(a)(1)				
18			285.33(a)(2)				

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
19							
	DISPOSAL SYSTEM Soil		285 33(d)(4)				
20	Substitution		205.55(0)(4)				
	DISPOSAL SYSTEM Pumped		285.33(a)(3)				
	Effluent		285.33(a)(1)				
			285 33(a)(2)				
21			285.33(a)(2)				
	DISPOSAL SYSTEM Gravelless Pipe		285 33(a)(2)				
			285.33(a)(2)				
			205.55(a)(4)				
22			285.55(d)(1)				
	DISPOSAL SYSTEM Mound		285.33(a)(3)				
			285.33(a)(1)				
			285.33(a)(2)				
			285.33(a)(4)				
23							
	DISPOSAL SYSTEM Other		285.33(d)(6)				
	(describe) (Approved Design)		285.33(c)(4)				
.			(0)(1)				
24	DRAINEIELD Absorptive Drainling						
25	or 4" PVC						
26	DRAINFIELD Area Installed						
	DRAINFIELD Level to within 1 inch						
	per 25 feet and within 3 inches						
	over entire excavation		285.33(D)(1)(A)(V)				
27							
	DRAINFIELD Excavation Width						
	DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation						
	Separation DRAINFIELD Depth of						
	Borous Modia						
	DRAINFIELD Type of Derous Media						
	DRAINFIELD Type of Porous Media						
1							
28							
	DRAINFIELD Pipe and Gravel -		20E 22/h//4//E)				
29	Geotextile Fabric in Place		285.33(D)(1)(E)				
<u> </u>	DRAINFIELD Leaching Chambers						
	DRAINFIELD Chambers - Open End						
	Plates w/Splash Plate. Inspection						
	Port & Closed End Plates in Place		205 22/-1/21				
1	(per manufacturers spec.)		285.33(c)(2)				
	(per manaractarers spec.)						
30							
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate		285.33(d)(1)(C)(i)				
1	Separation Distance between		(0)(1)				
	Trenches						
31							

No.	Description	Anwser	Citations	Notes	1st	Insp.	2nd Insp.	3rd Insp.
	EFFLUENT DISPOSAL SYSTEM Utilized							
	Only by Single Family Dwelling							
	EFFLUENT DISPOSAL SYSTEM							
	Topographic Slopes							
	< 2.0% EFFLUENT DISPOSAL SYSTEM							
	Adequate Length of Drain Field (1000		285.33(b)(3)(A)					
	Linear ft. for 2 bedrooms or Less		285.33(b)(3)(A)					
	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							
	(3/16 - 1/4") dia Hole Size) 5 ft Apart							
32	(3/10-1/4 Ula. Hole Size) 5 H. Apart							
52	AFROBIC TREATMENT LINIT IS	6	x			0		
	Aerobic Unit Installed According	<u>در</u> ا	,			~~~ ~~~		
	to Approved Guidelines	, QV	285.32(c)(1)		, S	54		
33	to Approved Guidennes.	00			00			
-	AEROBIC TREATMENT UNIT							
	Inspection/Clean Out Port &							
	Risers Provided							
	Secondary restraint system							
	LINIT Piser 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							
1	Provided in the Treated Effluent							
1	Line							
1	PUMP TANK Check Valve and/or							
1	Anti- Siphon Device Present When							
1	Required							
1	PUMP TANK Audible and Visual							
1	High Water Alarm Installed on							
36	Separate Circuit From Pump							
	PUMP TANK Inspection/Clean Out							
1	Port & Risers Provided							
1	PUMP TANK Secondary restraint							
1	system provided							
1	PUMP TANK Riser permanently							
1	fastened to lid or cast into tank							
1	PUMP TANK Riser cap protected							
1	against unauthorized intrusions							
27								
3/	PLIMP TANK Secondary rostraint							
38	system provided							
50	PLIMP TANK Electrical							
1	Connections in Approved Junction							
39	Boyes / Wiring Buried							
~~	DOACS / WITHING DUITED							

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	06.02.20	285.33(d)(2)(G)(iii)(II)285.3 3(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)(ii) 285.33(d)(2)(G)(iii)(I)		06.02.20		
41	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						
42							
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	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:	110223
Issued This Date:	01/13/2020
This permit is hereby given to:	Lewis Holman Oliphant & Brenda Kay Oliphant

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

607 CIELO VISTA CANYON LAKE, TX 78133

Subdivision:Ensenada Shores at Canyon LakeUnit:2Lot:260Block:Acreage:

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.



Holly Braun

Address Coordinator Comal County Engineer's Office 195 David Jonas Drive New Braunfels, TX 78132 O: 830-608-2090 | F: 830-643-3810 www.cceo.org

From: Braun, Holly

Sent: Thursday, February 13, 2020 10:19 AM To: Angelo Bustamante - United States Postal Service (angelo.r.bustamante@usps.gov) <angelo.r.bustamante@usps.gov>; AT&T (Sotxsubdivisions@att.com) <Sotxsubdivisions@att.com>; CLW New Service <newservice@clwsc.com>; Cory Brandenburg, ENP <coryb@bexarmetro.org>; Dora Campos <campod@co.comal.tx.us>; Elisabeth Humphrey <Elisabeth.A.lverson@usps.gov>; GVTC 911 Support (911support@gvtc.net) <911support@gvtc.net>; Mandy Martin <Mmartin@bexarmetro.org>; Peggy Harper <margaret.a.harper@usps.gov>; Preusser, Robin L. (preusr@co.comal.tx.us) <preusr@co.comal.tx.us>; Spectrum / Charter Construction <STX.NewDevelopment@charter.com>; Tiffany Murphy (Tiffany.Murphy@gvtc.net) <Tiffany.Murphy@gvtc.net> Subject: Change of Address - 607 Cielo Vista

Good morning,

Please find the attached documentation in reference to the change of address for:

• ENSENADA SHORES AT CANYON LAKE 2, LOT 260

Should you have any questions or require additional information, please contact our office at any time.

Sincerely,



Holly Braun

Address Coordinator Comal County Engineer's Office 195 David Jonas Drive New Braunfels, TX 78132 O: 830-608-2090 | F: 830-643-3810 www.cceo.org



February 12, 2020

Lewis H. and Brenda K. Oliphant 16131 Castlegrove Ct Tomball, TX 77377

Re: Physical Address Change Notice

To Whom It May Concern:

Please be advised the physical address for the following property has been established to replace the address previously assigned. The new physical address assigned to the property is as follows:

Property ID	Legal Description	Previous Address (INVALID)	New Assigned Address (VALID)
131595	ENSENADA SHORES AT CANYON LAKE 2, LOT 260	108 SAN FELIPE CANYON LAKE, TX 78133	607 CIELO VISTA CANYON LAKE, TX 78133

Please ensure any utility services established with the previous address are updated to reflect the current address. Please display this address where it is visible from the road with 6" or larger reflective numbers so emergency personnel can easily locate the property should there be an emergency. **Please check with your local post office to verify the correct city and zip code before using the assigned address for mailing purposes.** If you receive mail at a post office box, your mailing address will not change.

If you have questions or need further assistance, please let us know.

Sincerely,

Holly Braun Address Coordinator

Cc:

- Comal Appraisal District
- ✤ Bexar Metro 9-1-1
- United States Postal Service
- ✤ PEC



Date: 2/12/2020 ~ Document Path: \\bfs\RAB\Team Drive\GISData\Holly_CurrentMXDProjects\AddressCoordinatorMap_12022019.mxd ~ User Name: braunh

COUNTY OF COMAL

COUNTY ENGINEER'S OFFICE

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will	complete	shaded
------------	----------	--------

items Date Received	Initials

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 must accompany the completed application.

OSSF Permit

Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate

Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer

V 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

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 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.

Signature of Applicant

	PLICATION
Check No	Receipt No.

12/20/19 Date



* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN **ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE**

Date			Permit #		
Owner Name LEV	VIS HOLMAN OLIPHANT & BRENDA KAY OLIPI	HANT Acont Name			
- Mailing Address	c/o 23011 FM 306	Agent Address			
City, State, Zip	CANYON LAKE, TX 78133	City State Zin	AUCTINE THE CREEK LOVE	AR195	
Phone #	830-935-4936	Phone #	AUSTIN, 1X 78735	ND-D-D-Mandalanana	
Email	katelyn@paulswoversentics.com	Fmail	210-347-1593		
All correspo			plan-itemotinali.com	WWWWWWWWWWWWWW	
Out-distance No.		Agent (X) Both	Method: 🚺 Mail 🔀 Email		
Subdivision Name	ENSENADA SHORES AT CANYON LA	KE Unit 2	Lot Block		
Street Nomo/Addr	and Long Cirelo Micha			Not Manufacture and the state of the	
Tupe of Developm	ess <u>0010100 VISta</u>	City CA	NYON LAKE Zip 78133	The Confederation of the Second	
	v Residential				
		100			
Number of Ber	drooms	035			
Indicate So Et	of Living Area 2345				
Non-Single F	Family Residential				
(Planning materia	Is must show adequate land area for doubling the	required land needed for	treatment units and disposal area)		
Type of Facility	4	- Manager			
Offices, Factor	Offices, Factories, Churches, Schools, Parks, Etc Indicate Number Of Occupants				
Restaurants, L	ounges, Theaters - Indicate Number of Seats				
Hotel, Motel, H	ospital, Nursing Home - Indicate Number of E	Beds			
Travel Trailer/F	RV Parks - Indicate Number of Spaces				
Miscellaneous					
Estimated Cost o	f Construction: \$ 403,632 (Struct	ure Only)			
Is any portion of t	he proposed OSSF located in the United Stat	es Army Corps of Eng	ineers (USACE) flowage easement?		
🗌 Yes 🔀 No	(If yes, owner must provide approval from USACE for	r proposed OSSF Improvem	ents within the USACE flowage easement)		
Source of Water	Public Private Well				
Are Water Saving D	evices Being Utilized Within the Residence?	🛛 Yes 🗌 No			
By signing this applica - The completed applied facts.	ition, I certify that: cation and all additional information submitted doe	s not contain any false in	formation and does not conceal any materia	al	
- Authorization is here site/soil evaluation a	by given to the permitting authority and designated nd inspection of private sewage facilities.	agents to enter upon the	e above described property for the purpose	of	
 understand that a p by the Comal County 	ermit of authorization to construct will not be issue / Flood Damage Prevention Order	d until the Floodplain Adr	ministrator has performed the reviews requi	red	
- I affirmatively consen	It to the online posting/public release of my e-mail	address associated with	this permit application, as applicable.		
Y	- OK	12 /01	la		
Signature of Owne	er 77	Date 10/06/	1 <u>7</u>		

Page 1 of 2

REVISED

8:58 am, Feb 26, 2020

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

Revised April 2019

* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE 4:01 pm, Jan 13, 2020
Planning Materials & Site Evaluation as Required Completed By D. M. Chec System Description Accobic Spray
Tank Size(s) (Gallons) <u>600 GPD ATU</u> Absorption/Application Area (Sq Ft) <u>483</u>
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.)) JAN 10 2020 Is there an existing TCEQ approved WPAP for the property? Yes No COUNTY ENGINEER
(If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.) If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zone?
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 R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
If yes, indicate the city:
By signing this application, I certify that: - The information provided above is true and correct to the best of my knowledge. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application. - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit ap

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 (OSSF's), 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 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.

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):

2	UNIT/PHASE/SECTION	BLOCI	260	LOT	ENSENADA SHORES AT CANYON LAKE SUBDIVISION
		and the second se			

IF NOT IN SUBDIVISION: _____ ACREAGE

The property is owned by (insert owner's full name): LEWIS HOLMAN OLIPHANT & BRENDA KAY OLIPHANT

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.

DAY OF December 20 19 HANDAS) ON THIS 26 LEWIS HOLMAN OLIPHANT BRENDA KAY OLIPHANT Owner(s) signature(s) Lewis Holman Oliphant Owner (s) Printed name (s) Brenda Kay Oliphant - SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 26 DAY OF 20 19 THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY **Filed and Recorded** mit. **Official Public Records** Public Simulare Bobbie Koepp, County Clerk **Comal County**, Texas LYNNETTE K. CRANFORD 12/31/2019 02:07:47 PM Notary Public, State of Texas LAURA 1 Pages(s) omm. Expires 12-22-2023 Notary ID 11667911 201906047307 Mary Seal There Bobbie Keepp



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

MP#0001708

CHRISTOPHER RYAN SEIDENSTICKER

PROPERTY LEGAL DESCRIPTION:

ENSENADA SHORES AT	CANYON LAKE.	UNIT 2 1 OT 260
Party and the second seco	a state of the state of	

Customer: LE	WIS HOLMA	N OLIPHANT	& BRENDA KAY	OLIPHANT
		an a	and the second for the second s	and a state of the second
Site Address.	1007	Cielo	Vis La	

City/State: CANYON L	KE, TEXAS	Zin: 78133
County: COMAL	Permit#:	
Phone Number:	3 725 2803	
E-mail: Sourkyoli	shour a hor	mail.com

- I. General: This On-Site Sewage Facility Service Agreement (hereinafter referred to as "Agreement") is entered into by and between
 LEWIS HOLMAN OLIPHANT & BRENDA KAY OLIPHANT
 (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:

- 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.
- 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.

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. To maintain a current license to operate, and abide by the conditions and limitations of that license and all requirements for on-3.
 - site 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. 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,
 - To provide Contractor with water usage records, upon request, for evaluation by Contractor of the OSSF performance. 7 8
 - 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 abovedescribed 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 Ree(s) described herein. If the above conditions are not met, then Contractor is from any obligation to perform any portion of this
- XII. Modification. This Agreement may not be changed or modified except by an instrument in writing, signed by both Contractor and
- 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 gonlinuing 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.
- GOVERNING LAW AND CHOICE OF VENUE. EACH OF THE PARTIES HERETO HEREBY CONSENTS TO THE XV. 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.

 Approved by Contractor:
 MP#0001708

 Approved by Client:
 MAM

- 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:





ENSANADA SHORES AT CANYON LAKE UNIT 2, LOT 260

COMAL COUNTY, TX

FOR



AEROBIC SURFACE IRRIGATION

PLAN-IT CONTACT INFORMATION: 6208 TANGLEWOOD TRAIL • SPRING BRANCH • TEXAS • 78070 • 210-347-1593 PLAN-IT@HOTMAIL.COM





RE: OSSF Design 607 Cielo Vista Comal COUNTY, TX

To Whom It May Concern:

Please find enclosed the OSSF design of the less than 3500 square foot, 4-bedroom single family residence located at 607 Cielo Vista, Comal County, TX. The design was conducted exclusively for Kurk Homes on January 23, 2020.

If you have any questions, please call. I appreciate the opportunity to be of service to you.

Sincerely,

Dave F. McGhee, D.R., S.E., R.S. Paul Swoyer Septics L.L.C.







SYSTEM SUMMARY

Paul Swoyer Septics L.L.C. began an On-Site Sewage Facility design located at 607 Cielo Vista, Comal COUNTY, TX. This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality and the more stringent rules set forth by Comal COUNTY.

This system is comprised of the following:

- System Designed For: 300 Gallons Per Day
- MaxxAir Aerobic System: Model M-600 (600GPD)
- NSF Approved Liquid Bleach Chlorinator EZ Tank
- Surface Irrigation Disposal: 4823 square feet of Application
- Timer: Grasslin Digi 20 capable of 1-minute switch times
- Utilizing 3 K-Rain Pro Plus Spray Heads with 180° Patterns Set at 32ft. Radii (#3 LA nozzle)
- Submersible Effluent Pump: Franklin C1 Series bottom suction pump 20XC1-05P4-2W115 Submersible pump @ 20 GPM

SITE DESCRIPTION AND SITE EVALUATION

The site evaluation indicated that the site has suitable soil for an aerobic surface irrigation system. No evidence of shallow ground water was observed during the site evaluation. Any exposed rock within the proposed surface distribution area will be removed or covered with a minimum of 4 inches of suitable soil and seeded prior to final inspection. (See landscaping for additional requirements). The single-family residence will utilize a public water supply as the source for potable water. All the systems components will be 100 ft. away from all wells. All portions of the spray radii will maintain at least a 10 feet separation from all property lines and flat work. No portion of this system lies within 10 feet of a waterline. There are no recharge features within 150 feet of this proposed system. No portion of this site lies within the 100-year flood plain. Minimum separation distances as stated in § 285.30 TCEQ, On-Site Sewage Facilities must be maintained.

WASTEWATER DESIGN FLOWS

The system was designed for a less than 3500 SF, 4-bedroom Single Family Residence, utilizing low-flow fixtures. The total projected daily wastewater flow is 300 gallons per day, as-per TCEQ, On-Site Sewage Facilities, effective December 27, 2012.

DESCRIPTION OF PROPOSED AEROBIC TREATMENT SYSTEM

The residence will utilize a MaxxAir aerobic wastewater treatment system Model M-600, a proprietary treatment plant, approved by the TCEQ for use in Texas. The Model M-600 is a three-compartment concrete tank. The aerobic system will consist of a 353-gallon pretreatment/trash tank compartment which will gravity flow into the 600 GPD aerobic treatment compartment. The effluent from the aeration tank will gravity flow into a 768-gallon pump tank compartment. An NSF approved LBC Manufacturing Model #EZ Tank Liquid chlorinator will be installed for disinfection. The pump tank compartment serves as a chlorine contact chamber as well as a storage tank. Distribution is through a 40 PSI pressure regulator then to purple 1" Sch. 40 PVC pipe, to 3 K-Rain Pro Plus Low Angle spray heads. The disposal area will consist of 3 - 32 ft. radii 180° patterns. The system is considered a "package system" and will be installed according to manufacturer's instructions.







DESIGN SPECIFICATIONS

Average Expected Flow: 300 Application Rate: 0.064 gal / ft^2 / day Minimum Application Area: A = Q/Ri A = 300 GPD / 0.064 = 4688 square feet Actual Application Area: A = 3.14 (32)² x 1.5 = 4823 square feet

SYSTEM COMPONENTS

Trash Tank: 353 gallon one-compartment Aeration Tank: 600 GPD Pump Tank: 768-gallon compartment 14.49 gal/inch of depth (53" usable)

PUMP FLOAT SETTINGS

Pump-off Position: 8 inches above tank bottom Pump-on Position: 11 inches above tank bottom Alarm-on Position: 32 inches above tank bottom

Daily Operating Capacity: 21" x 14.49 gal/in = 304.29 gallons Reserve Capacity: 21"x 14.49 gal/in = 304.29 gallons

PUMP AND SPRINKLER HEADS

Pump: Franklin C1 Series bottom suction pump 20XC1-05P4-2W115 Submersible pump @ 20 GPM
Spray Heads: K-Rain Spray heads
Nozzle: 3.0 LA (Low angle trajectory, 13 degrees) operating at 40 PSI, 32ft radii and 3.1
GPM flow per spray head

Notes:

* A commercial irrigation timer will be used to cycle power to the pump in order to irrigate twice per night, once at 2:00 a.m. and again at 4:00 a.m.

FLOW, DOSING AND HEAD CALCULATIONS

Flow Rate: 3.1 GPM/head x 3 heads = 9.3 GPM Dosing Rate: 2 doses @ 150 gal/dose / 9.3 GPM = 17 min/dose Total Head: Elevation Head: 6ft

Pressure Head: 40 PSI x 2.31 ft/PSI = 92.4Friction Head: 1" Sch. 40 PVC @ 5.0 GPM = 2.13ft per 100ft 220ft (3.71/100) (1.2 SF) = 9.8

Total Dynamic Head: 6 + 92.4 + 9.8 = 108.2ft (within the pump curve) (40 PSI)

CONSTRUCTION/INSTALLATION NOTES & REQUIREMENTS

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage Facilities set forth by the Texas Administrative Code, §285 On-Site Sewage Facilities.
- The installer must have a current and valid Texas installer certificate and is required to have at the minimum and Installer II certification.
- The installer must notify designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with approved plans and specifications.






- The installer may not alter these plans without the approval from the designer.
- If site conditions differ from that which is on the approved design, the installer must cease construction and contact the designer.
- Diversion berms will be placed when needed to protect irrigation and tank areas from excessive runoff.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in Chapter §285 On-Site Sewage Facilities.
- No part of the system shall be located within 10 feet of a potable water line. If this is unavoidable, use Title 30 T.A.C Chapter 290 for the water line and OSSF supply line crossing

ELECTRICAL COMPONENTS

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

TANK NOTES

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a minimum 4" to 6" inch layer of sand, sandy loam, clay loam, or pea gravel.
- Tanks will be backfilled with sand, sandy loam, clay loam, or pea gravel free of clay and/or large rocks.
- Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2012). This includes access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. Septic tanks without risers shallower that 12" below grade may be exempt.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, and/or to prevent the infiltration of water.
- Tanks must be filled with water for at least 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8 inch per foot from house to tank.
- PVC pipe from house to tank must be at least Sch. 40 or SDR 26.

IRRIGATION AND LANDSCAPE NOTES

- Irrigation lines shall be 1 inch Sch. 40 PVC. All supply lines, sprinkler heads and valve cover boxes must be permanently colored purple. Sleeve any pipe that crosses any road, driveway, or other land improvement with larger diameter Sch. 40 PVC.
- Supply lines must be buried at least 6 inches below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify the property owner prior to removal of any trees/bushes that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4 inches of suitable soil.
- Vegetation must be established before system is in use.







ADDITIONAL NOTES

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when alarms are activated.
- The chlorinator must be constructed to allow a chlorine residual of 0.1 mg/L in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in Chapter §285 On-Site Sewage Facilities. Approved disinfection methods using chlorinated tablets must use calcium hypochlorite that is properly labeled for wastewater disinfection.

MAINTENANCE REQUIREMENTS

- The applicant must furnish to the regulatory authority a valid maintenance contract with a certified maintenance company before a permit will be issued.
- The maintenance company will verify that the system is operating properly and provide on-going maintenance of the installation.
- The initial contract will be a minimum of two years.
- A maintenance contract will authorize the maintenance company to maintain and repair the system as needed.
- The property owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

AFFIDAVIT

- The applicant must file a certified copy of an affidavit at the County Clerk's Office and file in reference to the real property deed on which the surface application system is to be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:
 - (1) The new owner being advised that the property contains a surface application system for wastewater disposal.
 - (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with Chapter §285. 20(5) of the TCEQ OSSF Rules, i.e.; the permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF had been severed from the property.
 - (3) The new owners submitting a valid maintenance contract to the permitting authority.

OPERATION AND MANAGEMENT NOTES

- The OSSF should not be treated as a normal city sewer.
- The excessive use of in-sink garbage grinders and grease discarding should be avoided. In-sink garbage grinders can cause a rapid buildup of sludge or scum resulting in a more frequent cleaning and possible system failure.
- Do not use the toilet to dispose of cleaning tissue, cigarette butts, or other trash. This disposal practice will waste water and also impose an undesirable solid load on the treatment system.
- Septic tanks shall be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device. If sludge or scum accumulates to this point, solids will leave the tank with the liquid and possibly cause the system to clog resulting in sewage surfacing or backing up into the house through plumbing fixtures.





- A regular schedule of cleaning the tank at two to three-year intervals should be established. Commercial cleaners are equipped to readily perform the cleaning operation. Owners of OSSF's shall engage only persons registered with the TCEQ to transport the septic system waste.
- Do not build driveways, storage buildings, or other structures over system components or the disposal field.
- Chemical additives or so-called enzymes are not necessary for the operation of a septic tank. Some of these additives may even be harmful to the systems operation.
- Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.
- Chapter §285.39 states the owner shall not allow water softener or reverse osmosis back flush to enter into any portion of the OSSF.
- The liquid from the OSSF is still heavily laden with bacteria. The surfacing of this liquid constitutes a hazard to the health of those that might come into contact with it.

WATER CONSERVATION PRACTICES

- Showers usually use less water than baths. Installing water saving shower heads that uses less than 2.5 gallons per minute saves both water and energy.
- If you take a tub bath, reduce the level of the water in the tub from the level to which you customarily fill it.
- Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.
- Leaking toilets may not be evident. Add a few drops of food coloring into the tank. Do not flush. If the color appears in the bowl within a few minutes, adjustments and/or repairs to the toilet need to be made.
- Reduce the amount of water used by the toilet by installing one of the following: a new 1.6 gallon toilet, a toilet dam, or filling and capping a one quart plastic bottle with water and placing it into the tank. Do not use bricks as they may crumble and cause damage to the toilet.
- Install low-flow fixtures throughout the house and use faucet aerators that restrict water flow to help reduce consumption.
- Try to run dishwasher with a full load.
- Avoid running the water continuously for brushing teeth, washing hands or rinsing kitchen utensils.
- Water can be saved in the laundry room by adjusting water levels to match the size of the load. If the washing machine does not have a variable load control, water can be saved by running it only when the washer is full.
- Keep a container of drinking water in the refrigerator instead of running a faucet until it turns cool.
- Insulate hot water pipes to avoid long delays of wasted water while waiting for the water to heat.
- Ask your federal, state, county, city or other local government about their programs to conserve water and how they can help you save water.

This proposed system has been designed generally following the minimum requirements under TCEQ Chapter §285 On-Site Sewage Facilities. The site evaluation and subsequent design are based on technical information currently available. There was no indication of shallow groundwater or slopes where seeps could occur at the time of the site evaluation. The performance of the OSSF is not, and cannot be guaranteed even though all provisions of the Standards have been complied with. If failure should occur, additions to the OSSF may have to be made. By accepting this design, the homeowner/builder understands that the designer/site evaluator will not be liable for more than the agreed upon design fee.









System Components

- A. 4" SCH. 40 PVC PIPE WITH 2-WAY CLEANOUT
- B. MAXXAIR M600 (600 GPD) WITH LIQUID CHLORINATOR
- C. I" Sch. 40 purple PVC distribution PIPE
- D. 3 180 DEGREE K-RAIN PRO PLUS LOW ANGLE SPRAY HEADS WITH 32' RADIUS #3 NOZZLE



REFER TO TANK DETAIL AND DESIGN NOTES FOR MORE INFORMATION

SYSTEM MUST MAINTAIN A MINIMUM OSSF SETBACKS FROM ALL PROPERTY LINES

SURFACE ROCK IN SPRAY AREA MUST BE EXCAVATED, OR COVERED WITH A MINIMUM OF 4" OF SUITABLE SOIL

TRIM TREES IN APPLICATION AREA TO MAINTAIN AT LEAST 10' FROM SPRINKLER HEADS

ALL SEPERATION AND SETBACK REQUIREMENTS AS STATED IN CHAPTER 285, TCEQ ON-SITE SEWAGE FACILITIES, MUST BE MAINTAINED





Per 290.44 (e) (4) (B)

(v) Where a new potable waterline crosses a new, pressure rated wastewater main or lateral, one segment of the waterline pipe shall be centered over the wastewater line such that the joints of the waterline pipe are equidistant and at least nine feet horizontally from the center line of the wastewater main or lateral. The potable waterline shall be at least six inches above the wastewater main or lateral. Whenever possible, the crossing shall be centered between the joints of the wastewater main or lateral. The wastewater pipe shall have a minimum pressure rating of at least 150 psi. The wastewater main or lateral shall be embedded in cement stabilized sand (see clause (vi) of this subparagraph) for the total length of one pipe segment plus 12 inches beyond the joint on each end.

(vi) Where cement stabilized sand bedding is required, the cement stabilized sand shall have a minimum of 10% cement per cubic yard of cement stabilized sand mixture, based on loose dry weight volume (at least 2.5 bags of cement per cubic yard of mixture). The cement stabilized sand bedding shall be a minimum of six inches above and four inches below the wastewater main or lateral. The use of brown coloring in cement stabilized sand for wastewater main or lateral bedding is recommended for the identification of pressure rated wastewater mains during future construction

REVISED

8:07 am, Feb 26, 2020



. All tanks are to be set level on a minimum 4 inch layer of sand. sandy loam. clay loam. or pea gravel. . Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2012). This includes access limitation (<65lbs lid or hardware secured lid) and secondary plug. net. or mesh in riser. Septic tanks without risers shallower that 12" below grade may be exempt.

. Risers are required on all tank access orts to grade.

. All openings in the tank must be properly sealed to prevent the escape of wastewater. and/or to prevent the infiltration of water.

- . Tanks must be filled with water for at least 24 hours to test for leaks and structural integrity.
- . The tanks must be set low enough to have fall of at least 1/8 inch per foot from house to tank.
- . PVC pipe from house to tank must be at least Sch. 40.

GENERAL NOTES:

- Plant structure material to be precast concrete and steel.
- Plant structure materia
 Weight = 14,900 lbs.
- 3. Treatment capacity is 600 GPD. BOD Loading = 1.62 lbs. per day.
- 4. Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
- 5. Control Center w/ Timer for night spray application. .
- 7. 20" Ø acess riser w/ lid (Typical 4). Optional extension risers available.
- 8. 20 GPM 1/2 HP, high head effluent pump.
- 9. Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 11. 1" Sch. 40 PVC pipe to distribution system provided by contractor.



PUMP FLOAT SETTINGS

Pumpoff Position: 8 inches above tank bottom Pumpon Position: 11 inches above tank bottom Alarmon Position: 32 inches above tank bottom

Daily Operating Capacity: 21" x 14.49 gal/in = 304.29 gallons

Reserve Capacity: 21"x 14.49 gal/in = 304.29 gallons



Maxx Air M-600 (600 GPD) Aerobic Treatment Plant (Assembled)



Dwg. #: ADV-B550-3

Advantage Wastewater Solutions Ile Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051



C¹SERIES

CISTERN PUMPS

Designed for use in gray water / filtered effluent service applications, the C1 Series cistern pump provides high performance and long life in less than ideal water conditions. The C1 Series pump is able to pass solids up to 1/8" without having a negative effect on the internal hydraulic components.

The pump's unique bottom suction design allows for maximum fluid drawdown without compromising durability or overall life, and it does not require the use of a flow induction sleeve. Intended specifically for use in a cistern or tank, CI Series pumps are suitable for use in agricultural, residential, and commercial installations.



franklinwater.com



FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, ½ hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy duty 600 V 10 foot SJOOW jacketed lead

APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

עוגוח			ATION
·KIMI	5 11/18		
. 1 / 1 / 1 / 1		UNPL	

	C1 Series Pumps						
GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10		115	7	10C1-05P4-2W115	90301005	26	17
IU	1/2	230	7	10C1-05P4-2W230	90301010	26	17
20		115	5	20C1-05P4-2W115	90302005	25	16
20		230	5	20C1-05P4-2W230	90302010	25	16
20X	1/2	115	6	20XC1-05P4-2W115	90302015	26	17
		230	6	20XC1-05P4-2W230	90302020	26	17
30		115	4	30C1-05P4-2W115	90303005	25	16
		230	4	30C1-05P4-2W230	90303010	25	16

Note: All units have 10 foot long SJOOW leads.





RAIN. ProPlus Performance Data

Model Numbers: 11003, 11003-HP, 11003-SH, 11003-RCW • Arc Adjust: 40-360 • Drive Type: Gear • Warranty: 5 years

Standard Performance Data:

26 degree trajectory						
Nozzle	Pressure	Radius	Flow	Precip	Precip	
	(PSI)	(ft)	(GPM)	(IN/HR)	(IN/HR)	
0.5	30	28	0.5	0.06	0.07	
	40	29	0.6	0.07	0.08	
	50	29	0.7	0.08	0.09	
	60	30	0.8	0.09	0.10	
0.75	30	29	0.7	0.08	0.09	
	40	30	0.8	0.09	0.10	
	50	31	0.9	0.09	0.10	
	60	32	1.0	0.09	0.11	
1	30	32	1.3	0.12	0.14	
	40	33	1.5	0.13	0.15	
	50	34	1.6	0.13	0.15	
	60	35	1.8	0.14	0.16	
2	30	37	2.4	0.17	0.19	
	40	40	2.5	0.15	0.17	
	50	42	3.0	0.16	0.19	
	60	43	3.3	0.17	0.20	
2.5	30	38	2.5	0.17	0.19	
Pre-	40	39	2.8	0.18	0.20	
Installed	50	40	3.2	0.19	0.22	
2	60	41	3.5	0.20	0.23	
3	30	38	3.6	0.24	0.28	
	40	39	4.2	0.27	0.31	
	50	41	4.0	0.26	0.30	
4	20	42	5.0	0.27	0.32	
4	30	45	4.4	0.25	0.20	
	40 50	44	5.6	0.25	0.29	
	50	40	5.0	0.23	0.29	
6	40	49	5.9	0.24	0.27	
0	40 50	4 5 46	6.0	0.20	0.32	
	60	48	63	0.26	0.32	
	70	49	67	0.20	0.30	
8	40	42	8.0	0.44	0.51	
0	50	45	8.5	0.40	0.47	
	60	49	9.5	0.38	0.44	
	70	50	10.0	0.39	0.44	

Nozzle	Pressure	Radius	Flow	Precip	Precip
	(bar)	(meter)	(l/m)	(mm/hr)	(mm/hr)
0.5	2.0	05	1.0	1.6	1.9
0.5	2.0	0.J Q Q	1.9	1.0	1.0
	3.5	8.8	2.5	2.0	2.0
	4.0	9.0	3.0	2.0	2.5
0.75	2.0	8.8	2.6	2.2	2.3
0.75	3.0	91	3.0	2.0	2.5
	3 5	94	3.4	23	2.6
	4.0	9.8	3.8	2.4	2.8
1	2.0	9.8	4.9	3.1	3.6
	3.0	10.1	5.7	3.4	3.9
	3.5	10.4	6.1	3.4	3.9
	4.0	10.7	6.8	3.6	4.1
2	2.0	11.3	9.1	4.3	4.9
	3.0	12.2	9.5	3.8	4.4
	3.5	12.8	11.4	4.2	4.8
	4.0	13.1	12.5	4.4	5.0
2.5	2.0	11.6	9.5	4.2	4.9
Pre-	3.0	11.9	10.6	4.5	5.2
Installed	3.5	12.2	12.1	4.9	5.6
	4.0	12.5	13.2	5.1	5.9
3	2.0	11.6	13.6	6.1	7.0
	3.0	11.9	15.9	6.8	7.8
	3.5	12.5	17.4	6.7	7.7
	4.0	12.8	18.9	6.9	8.0
4	2.0	13.1	16.7	5.8	6.7
	3.0	13.4	19.3	6.4	7.4
	3.5	14.0	21.2	6.5	7.5
	4.0	14.9	22.3	6.0	6.9
6	3.0	13.7	22.3	7.1	8.2
	3.5	14.0	22.7	6.9	8.0
	4.0	14.6	23.8	6.7	7.7
0	5.0	14.9	25.4	6.8	7.9
8	3.0	12.8	30.3	11.1	12.8
	3.5	13.7	32.2	10.3	11.8
	4.0	14.9	36.0	9.7	11.2
	5.0	15.2	37.9	9.8	11.3

Low Angle Standard Performance Data

12 degree trajectory

Nozzle	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip (IN/HR)	Precip (IN/HR)
1	30	22	1.2	0.24	0.28
	40	24	1.7	0.28	0.33
	50	26	1.8	0.26	0.30
	60	28	2.0	0.25	0.28
3	30	29	3.0	0.34	0.40
	40	32	3.1	0.29	0.34
	50	35	3.5	0.28	0.32
	60	37	3.8	0.27	0.31
4	30	31	3.4	0.34	0.39
	40	34	3.9	0.32	0.37
	50	37	4.4	0.31	0.36
	60	38	4.7	0.31	0.36
6	40	38	6.5	0.43	0.50
	50	40	7.3	0.44	0.51
	60	42	8.0	0.44	0.50
	70	44	8.6	0.43	0.49

Low Angle Metric Performance Data

12 degree trajectory					
Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
1	2.0	6.7	4.5	6.1	7.0
	3.0	7.3	6.4	7.2	8.3
	3.5	7.9	6.8	6.5	7.5
	4.0	8.5	7.6	6.2	7.2
3	2.0	8.8	11.4	8.7	10.1
	3.0	9.8	11.7	7.4	8.5
	3.5	10.7	13.2	7.0	8.1
	4.0	11.3	14.4	6.8	7.8
4	2.0	9.4	12.9	8.6	10.0
	3.0	10.4	14.8	8.2	9.5
	3.5	11.3	16.7	7.9	9.1
	4.0	11.6	17.8	8.0	9.2
6	3.0	11.6	24.6	11.0	12.7
	3.5	12.2	27.6	11.2	12.9
	4.0	12.8	30.3	11.1	12.8
	5.0	13.4	32.6	10.9	12.5

All precipitation rates are calculated at 360 degrees. For precipitation rates at 180 degrees, multiply by 2. Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with nozzle retention screw.

Metric Performance Data: 26 degree trajectory







SEE WATERLINE CROSSING ATTACHMENT SLEEVE LINE WITH LARGER ،9<u>6</u>.89° DIAMETER SCH. 40 PVC .∃.u 'QI 20, 022 SETBACK XI D 0000 d S В - 0 ₹ Ά Χ2 SE. ш<mark>/</mark> ⊅ 010-1 OSSF GPD 300 10. Ň OSSF 20' P.U.E. & OSSF 104.80 SAN FELIPE

SYSTEM COMPONENTS

- A. 4" SCH. 40 PVC PIPE WITH 2-WAY CLEANOUT
- B. MAXXAIR M600 (600 GPD) WITH LIQUID CHLORINATOR
- C. I" SCH. 40 PURPLE PVC DISTRIBUTION PIPE
- D. 3 180 DEGREE K-RAIN PRO PLUS LOW ANGLE SPRAY HEADS WITH 32' RADIUS #3 NOZZLE



NOTES

REFER TO TANK DETAIL AND DESIGN NOTES FOR MORE INFORMATION

SYSTEM MUST MAINTAIN A MINIMUM OSSF SETBACKS FROM ALL PROPERTY LINES

SURFACE ROCK IN SPRAY AREA MUST BE EXCAVATED, OR COVERED WITH A MINIMUM OF 4" OF SUITABLE SOIL

TRIM TREES IN APPLICATION AREA TO MAINTAIN AT LEAST 10' FROM SPRINKLER HEADS

ALL SEPERATION AND SETBACK REQUIREMENTS AS STATED IN CHAPTER 285, TCEQ ON-SITE SEWAGE FACILITIES, MUST BE MAINTAINED

Ritzen, Brenda

From: Sent: To: Subject: Ritzen, Brenda Wednesday, February 26, 2020 8:52 AM 'Dave McGhee'; Katelyn Neumann RE: 607 Cielo Vista Revised Design

Dave, Katelyn,

The owner still must revise the permit application to the new address.

Thank you,

Brenda Ritzen, OS0007722 Environmental Health Coordinator Comal County Engineers Office 195 David Jonas Drive New Braunfels, Texas 78132 830-608-2090 www.cceo.org

From: Dave McGhee <Plan-It@hotmail.com>
Sent: Tuesday, February 25, 2020 6:10 PM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>; Katelyn Neumann <katelyn@paulswoyerseptics.com>
Subject: 607 Cielo Vista Revised Design

This email originated from outside of the organization.

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

- Comal IT

Here is the revised design with new address. Let me know if you have any questions. Thanks

Respectfully,

Dave McGhee, R.S., S.E. Plan-It Septic, LLC C - 210-347-1593



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

Permit Number:	110223
Issued This Date:	01/13/2020
This permit is hereby given to:	Lewis Holman Oliphant & Brenda Kay Oliphant

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

108 SAN FELIPE CANYON LAKE, TX 78133

Subdivision:Ensenada Shores at Canyon LakeUnit:2Lot:260Block:Acreage:

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.

RECEIVED

IAN 1 0 2020



PAUL SWOYER SEPTIC SUPPER SERVICE SERVICE 23011 FM 306 CANYON LAKE, TX 78133

MP#0001708 CHRISTOPHER RYAN SEIDENSTICKER

Customer: LEWIS HOLMAN OLIPHANT & BRENDA KAY OLIPHANT

PROPERTY LEGAL DESCRIPTION:	Site Address: SAN FELIPE
ENSENADA SHORES AT CANYON LAKE, UNIT 2, LOT 260	City/State: CANYON LAKE, TEXAS Zip: 78133
	County: COMAL Permit#:
	Phone Number: 713 725 2803
	E-mail: Sparkyoliphant @ hot mail. com

I. General: This On-Site Sewage Facility Service Agreement (hereinafter referred to as "Agreement") is entered into by and between
LEWIS HOLMAN OLIPHANT & BRENDA KAY OLIPHANT
(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 of In Date of License to Operate: LTO

yrs from LTO

perate is issued for Three (3) years.

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.
- 3. 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.
- 5. 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. Clent authorizes Contractor to remove any parts installed, but not paid in full at the end of the thirty (30) days. Clien agrees to pay for any labor cost associated with the installation and the reasonable cost of removal of said parts.

Client:

Contractor:

RECEIVED COUNTY ENGINEER

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

- To maintain chlorinator and provide proper chlorine supply, if OSSF is so equipped. 1.
- To provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, 2. 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.
- To provide Contractor with water usage records, upon request, for evaluation by Contractor of the OSSF performance. 7.
- 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.
- To prevent backwash from water treatment or water conditioning equipment to enter the OSSF. 9
- 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 circumstan d soil.
- VII. ent may transfer to any subsequent owner(s) of the property on Application or Transfer of Payment: The imilar agreement authorizing Contractor to perform the abovewhich the OSSF is located. The subsequen cement Agreement must be signed and received within 30 days of described Services, and accepting Client's res 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.
- Modification. This Agreement may not be changed or modified except by an instrument in writing, signed by both Contractor and XII. 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 waver or as a consent to or waiver of any subsequent breach hereof.

Client:

Contractor:

RECEIVED

Headings. The Article and Section headings in this Agreement are for the convenience of reference only and do not constitute a part COUNTY ENGINEER XIV.

XV. GOVERNING LAW AND CHOICE OF VENUE. 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 OF 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: Approved by Client: XVII. Reservation of Rights. Contractor reserves a anted herein.

- XVIII. Counterparts. This Agreement may be execu erparts, 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.

Clint

Contractor:

OF ENVIRONMENTAL HEALTH * * DEICE * * * COMAL COUNTY IZATION TO CONSTRUCT AN APPLICATION FOR P ICENSE TO OPERATE

	RE	VISEC)	
l	4:01	pm. Jan	13.	202

	ON-SITE SEW			1773
Date			Permit #	() d d)
Owner Name	NIS HOLMAN OLIPHANT & BRENDA KAY OLIPH	ANT Agent Name	DAVE	MCGHEE
Mailing Address	c/o 23011 FM 306	Agent Addres	ss5405 APAC	HE CREEK COVE
City, State, Zip	CANYON LAKE, TX 78133	City, State, Z	ip <u>AUSTIN</u>	TX 78735
Phone #	830-935-4936	Phone #	210-3	47-1593
Email	katelyn@paulswoyerseptics.com	Email	plan-it@h	otmail.com
All corresp	ondence should be sent to: Owner A	gent 🛛 Both	Method:	Mail 🔀 Email
Subdivision Name	e ENSENADA SHORES AT CANYON LA	KE Unit 2	Lot 260	Block
Acreage/Legal				
Street Name/Add	Iress /08 SAN FELIPE	City	CANYON LAKE	Zip 78133
Type of Develop	ment:			
🔀 Single Fami	ily Residential			JAN 1 0 2020
Type of Cons	struction (House, Mobile, RV, Etc.) HO	USE		COUNTY ENOU
Number of Be	edrooms <u>a 4 D</u> M			COUNTYENGINEER
Indicate Sq F	t of Living Area2345			
Non-Sinale	Family Residential			
(Planning mater	ials must show adequate land area for doubling the	required land need	ded for treatment units ar	nd disposal area)
Type of Facili	ity			
Offices, Facto	ories, Churches, Schools, Parks, Et	Of Oco	cupants	
Restaurants,	Lounges, Theaters - Indicate Number of Seat			and a supervised on the supervised and a supervised and supervised and the supervised and the supervised and the
Hotel, Motel,	Hospital, Nursing Home - Indicate Number of	Beds		
Travel Trailer	r/RV Parks - Indicate Number of Spaces			an and go go go a second and a se
Miscellaneou	IS			
Estimated Cost	t of Construction: \$ 403,632 (Struc	cture Only)		
Is any portion o	of the proposed OSSF located in the United Sta	ates Army Corps	of Engineers (USACE)	flowage easement?
Yes X	No (If yes, owner must provide approval from USACE f	or proposed OSSF in	nprovements within the USA	CE flowage easement)
Source of Water	X Public Private Well			An and a second se
Are Water Saving	Devices Being Utilized Within the Residence?	? 🛛 Yes 🗌	No	
By signing this appl - The completed ap facts.	lication, I certify that: plication and all additional information submitted dc	es not contain any	false information and do	es not conceal any material
 Authorization is he site/soil evaluation I understand that a by the Correl Corr 	ereby given to the permitting authority and designate n and inspection of private sewage facilities a permit of authorization to construct will not be issu- uty Flood Damage Prevention Order	ed agents to enter ued until the Floodp	upon the above describe	d property for the purpose of erformed the reviews required
- I affirmatively cons	sent to the online posting/public release of my e-ma	il address associat	ted with this permit applic	ation, as applicable.
1	1 DIL		1.1.	

Signature of Owner

126/19 Date

Page 1 of 2

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

Revised April 2019

Ritzen, Brenda

From:	Ritzen, Brenda
Sent:	Thursday, February 13, 2020 11:37 AM
То:	Katelyn Neumann
Cc:	plan-it@hotmail.com
Subject:	FW: Change of Address - 607 Cielo Vista
Attachments:	607_Cielo_Vista_Letter.pdf; 607_Cielo_Vista_Map.pdf

Re: Lewis Holman & Brenda Kay Oliphant Ensenada Shores at Canyon Lake Unit 2 Lot 260 Application for Permit for Authorization to Construct an On-Site Sewage Facility

Katelyn, Dave,

I received the attached change of address for the referenced permit submittal. Please revise the permit application and planning materials to reflect this change of address. Also, include the new driveway location on the design.

Thank you,

Brenda Ritzen, OS0007722 Environmental Health Coordinator Comal County Engineers Office 195 David Jonas Drive New Braunfels, Texas 78132 830-608-2090 www.cceo.org

From: Braun, Holly <braunh@co.comal.tx.us>
Sent: Thursday, February 13, 2020 10:22 AM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Subject: FW: Change of Address - 607 Cielo Vista

Brenda,

The email below an attachments are in reference to OSSF Permit# 110223; the HOA required the property owners move the location of house and driveway requiring a change of address.

Sincerely,

Owner's Name: Kurk Homes

Physical Address: 108 San Felipe

Legal Description: Ensenada Shores at Canyon Lake, Unit 2, Lot 260

Date Performed: 12-12-19

Proposed Excavation Depth: 0 - 6"

VALUATION FORM

Requirements:

- At lest two soil evaluations must be performed on the site, at opposite ends of the proposed disposal area. Locations of ٠ soil evaluations must be shown on the application site drawing or designer's site drawing.
- For subsurface disposal, soil evaluations must be performed to a depth of at least 2-ft. below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
- Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the ٠ appropriate depth.

(Mottles, Table	Water Horizon	Observations
< 30% None	e Rock @ 7"	Brown Clay
		Approved for aerobic spray distribution
VOID		
Table	ge Restrictive Water Horizon	Observations
< 30% None	Rock @ 10"	Brown Clay
		Approved for aerobic spray
		distribution
	(Mottles, Table 30% None VOID raina, ttles, V Table 30% None	(Mottles, Water Table) Horizon 30% None Rock @ 7" VOID rainage ttles, Water Table) Restrictive Horizon 30% None Rock @ 10"

Soil Profile Number: 1

Features of Site Area

Presence of 100 year flood zone	No
Presence of adjacent ponds, streams, water impoundments	No
Existing or proposed water well in nearby area	No
Organized sewage available to lot or tract	No
Recharge feature within 150 feet	No

I certify that the above statements are true and are based on my own field observations.

RECEIVED

JAN **1 0** 2020 COUNTY ENGINEER



RECEIVED

JAN 1 0 2020

COUNTY ENGINEER

Signature of Site Evaluator:

.

OS #

24422

Date 12-12-19

VOID



DESIGNING FOR A HEALTHEIER PLANET

RECEIVED JAN 1 0 2020 COUNTY ENGINEER

12-12-19

.

To Whom It May Concern:

The On Site Sewage Facility (OSSF) located at 108 San Felipe being Ensenada Shores at Canyon Lake, UNIT 2, LOT 260 has an existing TCEQ approved Water Pollution Abatement Plan (WPAP). As the OSSF designer I certify that the OSSF on this property complies with all provisions of the existing WPAP

Sincerely,



Dave McGhee, R.S. 4206 Plan-It Septic Design & Services, L.L.C.







COMAL COUNTY, TX



AEROBIC SURFACE IRRIGATION

PLAN-IT CONTACT INFORMATION: 6208 TANGLEWOOD TRAIL • SPRING BRANCH • TEXAS • 78070 • 210-347-1593 PLAN-IT@HOTMAIL.COM







RE: OSSF Design 108 San Felipe Comal COUNTY, TX

To Whom It May Concern:

Please find enclosed the OSSF design of the less than 3500 square foot, 4-bedroom single family residence located at 108 San Felipe, Comal COUNTY, TX. The design was conducted exclusively for Kurk Homes on December 12, 2019.

If you have any questions, please call. I appreciate the opportunity to be of service to you.



Sincerely,

Dave F. McGhee, D.R., S.E., R.S. Paul Swoyer Septics L.L.C.





SYSTEM SUMMARY

Paul Swoyer Septics L.L.C. began an On-Site Sewage Facility design located at 108 San Felipe, Comal COUNTY, TX. This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality and the more stringent rules set forth by Comal COUNTY.

This system is comprised of the following:

- System Designed For: 300 Gallons Per Day
- MaxxAir Aerobic System: Model M-600 (600GPD)
- NSF Approved Liquid Bleach Chlorinator EZ Tank
- Surface Irrigation Disposal: 4823 square feet of Application
- Timer: Grasslin Digi 20 capable of 1-minute switch times
- Utilizing 3 K-Rain Pro Plus Spray Heads with 180° Patterns Set at 32ft. Radii (#3 LA nozzle)
- Submersible Effluent Pump: Franklin C1 Series bottom suction pump 20XC1-05P4-2W115 Submersible pump @ 20 GPM

SITE DESCRIPTION AND SITE EVALUAT

The site evaluation indicated that the **VOID** soil for an aerobic surface irrigation system. No evidence of shallow ground water was **VOID** be site evaluation. Any exposed rock within the proposed surface distribution area was be removed or considered with a minimum of 4 inches of suitable soil and seeded prior to final inspection. (See landscaping for additional requirements). The single-family residence will utilize a public water supply as the source for potable water. All the systems components will be 100 ft. away from all wells. All portions of the spray radii will maintain at least a 20 feet separation from all property lines and flat work. No portion of this system lies within 10 feet of a waterline. There are no recharge features within 150 feet of this proposed system. No portion of this site lies within the 100-year flood plain. Minimum separation distances as stated in § 285.30 TCEQ, On-Site Sewage Facilities must be maintained.

WASTEWATER DESIGN FLOWS

The system was designed for a less than 3500 SF, 4-bedroom Single Family Residence, utilizing low-flow fixtures. The total projected daily wastewater flow is 300 gallons per day, as-per TCEQ, On-Site Sewage Facilities, effective December 27, 2012.

DESCRIPTION OF PROPOSED AEROBIC TREATMENT SYSTEM

The residence will utilize a MaxxAir aerobic wastewater treatment system Model M-600, a proprietary treatment plant, approved by the TCEQ for use in Texas. The Model M-600 is a three-compartment concrete tank. The aerobic system will consist of a 353-gallon pretreatment/trash tank compartment which will gravity flow into the 600 GPD aerobic treatment compartment. The effluent from the aeration tank will gravity flow into a 768-gallon pump tank compartment. An NSF approved LBC Manufacturing Model #EZ Tank Liquid chlorinator will be installed for disinfection. The pump tank compartment serves as a chlorine contact chamber as well as a storage tank. Distribution is through a 40 PSI pressure regulator then to purple 1" Sch. 40 PVC pipe, to 3 K-Rain Pro Plus Low Angle spray heads. The disposal area will consist of 3 - 32 ft. radii 180° patterns. The system is considered a "package system" and will be installed according to manufacturer's instructions.

DESIGN SPECIFICATIONS

Average Expected Flow: 300 Application Rate: 0.064 gal / ft^2 / day Minimum Application Area: A = Q/Ri A = 300 GPD / 0.064 = 4688 square feet Actual Application Area: A = 3.14 (32)² x 1.5 = 4823 square feet





SYSTEM SUMMARY

Paul Swoyer Septics L.L.C. began an On-Site Sewage Facility design located at 108 San Felipe, Comal COUNTY, TX. This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality and the more stringent rules set forth by Comal COUNTY.

This system is comprised of the following:

- System Designed For: 300 Gallons Per Day
- MaxxAir Aerobic System: Model M-600 (600GPD)
- NSF Approved Liquid Bleach Chlorinator EZ Tank
- Surface Irrigation Disposal: 4823 square feet of Application
- Timer: Grasslin Digi 20 capable of 1-minute switch times
- Utilizing 3 K-Rain Pro Plus Spray Heads with 180° Patterns Set at 32ft. Radii (#3 LA nozzle)
- Submersible Effluent Pump: Franklin C1 Series bottom suction pump 20XC1-05P4-2W115 Submersible pump @ 20 GPM

SITE DESCRIPTION AND SITE EVALUATION

The site evaluation indicated that the site has suitable soil for an aerobic surface irrigation system. No evidence of shallow ground water was observed during the site evaluation. Any exposed rock within the proposed surface distribution area will be removed or covered with a minimum of 4 inches of suitable soil and seeded prior to final inspection. (See landscaping for additional requirements). The single-family as the source for potable water. All the systems components will residence will utilize a public water supp be 100 ft. away from all wells. All D adii will maintain at least a 20 feet separation from m lies within 10 feet of a waterline. There are no all property lines and flat work. No ed system. No portion of this site lies within the 100-year recharge features within 150 feet of flood plain. Minimum separation distances as stated in § 285.30 TCEQ, On-Site Sewage Facilities must be maintained.

WASTEWATER DESIGN FLOWS

The system was designed for a less than 3500 SF, 4-bedroom Single Family Residence, utilizing low-flow fixtures. The total projected daily wastewater flow is 300 gallons per day, as-per TCEQ, On-Site Sewage Facilities, effective December 27, 2012.

DESCRIPTION OF PROPOSED AEROBIC TREATMENT SYSTEM

The residence will utilize a MaxxAir aerobic wastewater treatment system Model M-600, a proprietary treatment plant, approved by the TCEQ for use in Texas. The Model M-600 is a three-compartment concrete tank. The aerobic system will consist of a 353-gallon pretreatment/trash tank compartment which will gravity flow into the 600 GPD aerobic treatment compartment. The effluent from the aeration tank will gravity flow into a 768-gallon pump tank compartment. An NSF approved LBC Manufacturing Model #EZ Tank Liquid chlorinator will be installed for disinfection. The pump tank compartment serves as a chlorine contact chamber as well as a storage tank. Distribution is through a 40 PSI pressure regulator then to purple 1" Sch. 40 PVC pipe, to 3 K-Rain Pro Plus Low Angle spray heads. The disposal area will consist of 3 - 32 ft. radii 180° patterns. The system is considered a "package system" and will be installed according to manufacturer's instructions.

DESIGN SPECIFICATIONS

Average Expected Flow: 300 Application Rate: 0.064 gal / ft^2 / day Minimum Application Area: A = Q/Ri A = 300 GPD / 0.064 = 4688 square feet Actual Application Area: A = 3.14 (32)² x 1.5 = 4823 square feet





SYSTEM COMPONENTS

Trash Tank: 353 gallon one-compartment Aeration Tank: 600 GPD Pump Tank: 768-gallon compartment 14.49 gal/inch of depth (53" usable)

PUMP FLOAT SETTINGS

Pump-off Position: 6 inches above tank bottom Pump-on Position: 9 inches above tank bottom Alarm-on Position: 30 inches above tank bottom

Daily Operating Capacity: 21" x 14.49 gal/in = 304.29 gallons Reserve Capacity: 23"x 14.49 gal/in = 333.27 gallons

PUMP AND SPRINKLER HEADS

FLOW, DOSING AND HEAD CA

Pump: Franklin C1 Series bottom suction pump 20XC1-05P4-2W115 Submersible pump @ 20 GPM Spray Heads: K-Rain Spray heads

Nozzle: 3.0 LA (Low angle trajectory, 13 degrees) operating at 40 PSI, 32ft radii and 3.1 GPM flow per spray head

Notes:

* A commercial irrigation timer will be used to cycle power to the pump in order to irrigate twice per night, once at 2:00 a.m. and again at 4:00 a.m.



Flow Rate: 3.1 GPM/head x 3 heads = 9.3 GPM Dosing Rate: 2 doses @ 150 gal/dose / 9.3 GPM = 17 min/dose Total Head:

Elevation Head: 6ft Pressure Head: 40 PSI x 2.31 ft/PSI = 92.4 Friction Head: 1" Sch. 40 PVC @ 5.0 GPM = 2.13ft per 100ft 220ft (3.71/100) (1.2 SF) = 9.8

Total Dynamic Head: 6 + 92.4 + 9.8 = 108.2ft (within the pump curve) (40 PSI)

CONSTRUCTION/INSTALLATION NOTES & REQUIREMENTS

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage Facilities set forth by the Texas Administrative Code, §285 On-Site Sewage Facilities.
- The installer must have a current and valid Texas installer certificate and is required to have at the minimum and Installer II certification.
- The installer must notify designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with approved plans and specifications.
- The installer may not alter these plans without the approval from the designer.
- If site conditions differ from that which is on the approved design, the installer must cease construction and contact the designer.
- Diversion berms will be placed when needed to protect irrigation and tank areas from excessive runoff.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in Chapter §285 On-Site Sewage Facilities.





• No part of the system shall be located within 10 feet of a potable water line. If this is unavoidable, use Title 30 T.A.C Chapter 290 for the water line and OSSF supply line crossing

ELECTRICAL COMPONENTS

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

TANK NOTES

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a minimum 4" to 6" inch layer of sand, sandy loam, clay loam, or pea gravel.
- Tanks will be backfilled with sand, sandy loam, clay loam, or pea gravel free of clay and/or large rocks.
- Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2012). This includes access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. Septic tanks without risers shallower that 12" below grade may be exempt.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, and/or to prevent the infiltration of water.
- Tanks must be filled with water (1) [4] ours to test for leaks and structural integrity.
- The tanks must be set low enough to have fail of at least 1/8 inch per foot from house to tank.
- PVC pipe from house to tank must be at least Sch. 40 or SDR 26.

IRRIGATION AND LANDSCAPE NOTES

- Irrigation lines shall be 1 inch Sch. 40 PVC. All supply lines, sprinkler heads and valve cover boxes must be permanently colored purple. Sleeve any pipe that crosses any road, driveway, or other land improvement with larger diameter Sch. 40 PVC.
- Supply lines must be buried at least 6 inches below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify the property owner prior to removal of any trees/bushes that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4 inches of suitable soil.
- Vegetation must be established before system is in use.

ADDITIONAL NOTES

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when alarms are activated.
- The chlorinator must be constructed to allow a chlorine residual of 0.1 mg/L in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in Chapter §285 On-Site Sewage Facilities. Approved disinfection methods using chlorinated tablets must use calcium hypochlorite that is properly labeled for wastewater disinfection.





MAINTENANCE REQUIREMENTS

- The applicant must furnish to the regulatory authority a valid maintenance contract with a certified maintenance company before a permit will be issued.
- The maintenance company will verify that the system is operating properly and provide on-going maintenance of the installation.
- The initial contract will be a minimum of two years.
- A maintenance contract will authorize the maintenance company to maintain and repair the system as needed.
- The property owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

AFFIDAVIT

- The applicant must file a certified copy of an affidavit at the County Clerk's Office and file in reference to the real property deed on which the surface application system is to be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:
 - (1) The new owner being advised that the property contains a surface application system for wastewater disposal.
 - (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with Chapter §285. 20(5) of the TCEQ OSSF Rules, i.e.; the permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF had to be property.
 - (3) The new owners submitt

rce contract to the permitting authority.

OPERATION AND MANAGEMENT NOTES

- The OSSF should not be treated as a normal city sewer.
- The excessive use of in-sink garbage grinders and grease discarding should be avoided. In-sink garbage grinders can cause a rapid buildup of sludge or scum resulting in a more frequent cleaning and possible system failure.
- Do not use the toilet to dispose of cleaning tissue, cigarette butts, or other trash. This disposal practice will waste water and also impose an undesirable solid load on the treatment system.
- Septic tanks shall be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device. If sludge or scum accumulates to this point, solids will leave the tank with the liquid and possibly cause the system to clog resulting in sewage surfacing or backing up into the house through plumbing fixtures.
- A regular schedule of cleaning the tank at two to three-year intervals should be established. Commercial cleaners are equipped to readily perform the cleaning operation. Owners of OSSF's shall engage only persons registered with the TCEQ to transport the septic system waste.
- Do not build driveways, storage buildings, or other structures over system components or the disposal field.
- Chemical additives or so-called enzymes are not necessary for the operation of a septic tank. Some of these additives may even be harmful to the systems operation.
- Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.
- Chapter §285.39 states the owner shall not allow water softener or reverse osmosis back flush to enter into any portion of the OSSF.





• The liquid from the OSSF is still heavily laden with bacteria. The surfacing of this liquid constitutes a hazard to the health of those that might come into contact with it.

WATER CONSERVATION PRACTICES

- Showers usually use less water than baths. Installing water saving shower heads that uses less than 2.5 gallons per minute saves both water and energy.
- If you take a tub bath, reduce the level of the water in the tub from the level to which you customarily fill it.
- Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.
- Leaking toilets may not be evident. Add a few drops of food coloring into the tank. Do not flush. If the color appears in the bowl within a few minutes, adjustments and/or repairs to the toilet need to be made.
- Reduce the amount of water used by the toilet by installing one of the following: a new 1.6 gallon toilet, a toilet dam, or filling and capping a one quart plastic bottle with water and placing it into the tank. Do not use bricks as they may crumble and cause damage to the toilet.
- Install low-flow fixtures throughout the house and use faucet aerators that restrict water flow to help reduce consumption.
- Try to run dishwasher with a full
 - Avoid running the water continuous V(U) beeth, washing hands or rinsing kitchen utensils.
- Water can be saved in the laundry room by adjusting water levels to match the size of the load. If the washing machine does not have a variable load control, water can be saved by running it only when the washer is full.
- Keep a container of drinking water in the refrigerator instead of running a faucet until it turns cool.
- Insulate hot water pipes to avoid long delays of wasted water while waiting for the water to heat.
- Ask your federal, state, county, city or other local government about their programs to conserve water and how they can help you save water.

This proposed system has been designed generally following the minimum requirements under TCEQ Chapter §285 On-Site Sewage Facilities. The site evaluation and subsequent design are based on technical information currently available. There was no indication of shallow groundwater or slopes where seeps could occur at the time of the site evaluation. The performance of the OSSF is not, and cannot be guaranteed even though all provisions of the Standards have been complied with. If failure should occur, additions to the OSSF may have to be made. By accepting this design, the homeowner/builder understands that the designer/site evaluator will not be liable for more than the agreed upon design fee.





SEWAGE FACILITIES, MUST BE MAINTAINED

X = PROFILE HOLES

SYSTEM COMPONENTS

LIQUID CHLORINATOR

PIPE

#3 NOZZLE

SCALE |" = 50'

. The bottom of the excavation for the tanks shall be level and free of large rocks and debris.

. All tanks are to be set level on a minimum 4 inch layer of sand Risers are required on tank inspection ports as per 30 TAC 28 limitation (<65lbs lid or hardware secured lid) and secondary p without risers shallower that 12" below grade may be exempt.

See Note 9.

and secondary p may be exempt.

. Risers are required on all tank access orts to grade. . All openings in the tank must be properly sealed to prevent the escape of wastewater. and/or to prevent the infiltration of water.

- , Tanks must be filled with water for at least 24 hours to test for leaks and structural integrity.
- . The tanks must be set low enough to have fall of at least 1/8 inch per foot from house to tank.
- . PVC pipe from house to tank must be at least Sch. 40.

GENERAL NOTES:

- 1. Plant structure material to be precast concrete and giteel.
- 2. Weight = 14,900 lbs.
- Treatment capacity is 600 GPD. BOD Loading = 1_{62 lb}s. per day.
- Standard tablet chlorinator or Optional Liquid chlorin_{at(})r. NSF approved chlorinators (tablet & liquid) available.
- 5. Control Center w/ Timer for night spray application.
- 20" Ø acess riser w/ lid (Typical 4). Optional extension risers available.
- 20 GPM 1/2 HP, high head effluent pump.
- 9. Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 11. 1" Sch. 40 PVC pipe to distribution system provided by contractor.

PUMP FLOAT SETTINGS Pumpoff Position: 6 inches above tank bottom Pumpon Position: 9 inches above tank bottom Alarmon Position: 30 inches above tank bottom



m, or pea gravel.

s includes access

iser. Septic tanks

See Note 5.



CISTERN PUMPS

Designed for use in gray water / filtered effluent service applications, the CI Series cistern pump provides high performance and long life in less than ideal water conditions. The CI Series pump is able to pass solids up to 1/8" without having a negative effect on the internal hydraulic components.

The pump's unique bottom suction design allows for maximum fluid drawdown without compromising durability or overall life, and it does not require the use of a flow induction sleeve. Intended specifically for use in a cistern or tank, CI Series pumps are suitable for use in agricultural, residential, and commercial installations.

F SERIES *RECEIVED JAN 1 0 2020

COUNTY ENGINEE





FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, ½ hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy duty 600 V 10 foot SJOOW jacketed lead

APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

ORDERING INFORMATION

C1 Series Pumps							
					Order No.	Length (in)	Weight (Ibs)
10		115	7	10C1-05P4-2W115	90301005	26	17
		230	7	10C1-05P4-2W230	90301010	26	17
		115	5	20C1-05P4-2W115	90302005	25	16
	10	230	5	20C1-05P4-2W230	90302010	25	16
20X	V 2	115	6	20XC1-05P4-2W115	90302015	26	17
		230	6	20XC1-05P4-2W230	90302020	26	17
30		115	4	30C1-05P4-2W115	90303005	25	16
	A STATE AND	230	4	30C1-05P4-2W230	90303010	25	16

Note: All units have 10 foot long SJOOW leads.



RECEIVED JAN 1 0 2020

RAIN. ProPlus Performance Dat Model Numbers: 11003, 11003-HP, 11003-SH, 1100 - VOID Just: 40-360 • Drive Type: Gear • Warranty: EVGINEER

Standard Performance Data:

26 degree	trajectory				
Nozzle	Pressure	Radius	Flow	Precip	Precip
	(PSI)	(ft)	(GPM)	(IN/HR)	(IN/HR)
					—
0.5	30	28	0.5	0.06	0.07
	40	29	0.6	0.07	0.08
	50	29	0.7	0.08	0.09
	60	30	0.8	0.09	0.10
0.75	30	29	0.7	0.08	0.09
	40	30	0.8	0.09	0.10
	50	31	0.9	0.09	0.10
	60	32	1.0	0.09	0.11
1	30	32	1.3	0.12	0.14
	40	33	1.5	0.13	0.15
	50	34	1.6	0.13	0.15
	60	35	1.8	0.14	0.16
2	30	37	2.4	0.17	0.19
	40	40	2.5	0.15	0.17
	50	42	3.0	0.16	0.19
	60	43	3.3	0.17	0.20
2.5	30	38	2.5	0.17	0.19
Pre-	40	39	2.8	0.18	0.20
Installed	50	40	3.2	0.19	0.22
	60	41	3.5	0.20	0.23
3	30	38	3.6	0.24	0.28
	40	39	4.2	0.27	0.31
	50	41	4.6	0.26	0.30
	60	42	5.0	0.27	0.32
4	30	43	4.4	0.23	0.26
	40	44	5.1	0.25	0.29
	50	46	5.6	0.25	0.29
	60	49	5.9	0.24	0.27
6	40	45	5.9	0.28	0.32
	50	46	6.0	0.27	0.32
	60	48	6.3	0.26	0.30
	70	49	6.7	0.27	0.31
8	40	42	8.0	0.44	0.50
	50	45	8.5	0.40	0.47
	60	49	9.5	0.38	0.44
	=0	FD	10.0	0.00	0.44

20 aegree	irajectory					
Nozzle	Pressure	Radius	Flow	Precip	Precip	
	(bar)	(meter)	(l/m)	(mm/hr)	(mm/hr)	
				-		
0.5	2.0	8.5	1.9	1.6	1.8	
State of the second	3.0	8.8	2.3	1.7	2.0	
	3.5	8.8	2.6	2.0	2.3	
	4.0	9.1	3.0	2.2	2.5	
0.75	2.0	8.8	2.6	2.0	2.3	
	3.0	9.1	3.0	2.2	2.5	
	3.5	9.4	3.4	2.3	2.6	
A Contraction	4.0	9.8	3.8	2.4	2.8	
1	2.0	9.8	4.9	3.1	3.6	
	3.0	10.1	5.7	3.4	3.9	
	3.5	10.4	6.1	3.4	3.9	
	4.0	10.7	6.8	3.6	4.1	
2	2.0	11.3	9.1	4.3	4.9	
	3.0	12.2	9.5	3.8	4.4	
	3.5	12.8	11.4	4.2	4.8	
	4.0	13.1	12.5	4.4	5.0	
2.5	2.0	11.6	9.5	4.2	4.9	
Pre-	3.0	11.9	10.6	4.5	5.2	
Installed	3.5	12.2	12.1	4.9	5.6	
	4.0	12.5	13.2	5.1	5.9	
3	2.0	11.6	13.6	6.1	7.0	
	3.0	11.9	15.9	6.8	7.8	
	3.5	12.5	17.4	6.7	7.7	
	4.0	12.8	18.9	6.9	8.0	
4	2.0	13.1	16.7	5.8	6.7	
	3.0	13.4	19.3	6.4	7.4	
	3.5	14.0	21.2	6.5	7.5	
	4.0	14.9	22.3	6.0	6.9	
6	3.0	13.7	22.3	7.1	8.2	
	3.5	14.0	22.7	6.9	8.0	
	4.0	14.6	23.8	6.7	7.7	
	5.0	14.9	25.4	6.8	7.9	
8	3.0	12.8	30.3	11.1	12.8	
	3.5	13.7	32.2	10.3	11.8	
	4.0	14.9	36.0	9.7	11.2	
	50	15.2	370	90	113	

Low Angle Standard Performance Data

12 degree trajectory

Norma	Ducasuus	Dedina	Elem	Ducala	Dunain
Nozzle	(PSI)	(ft)	(GPM)	(IN/HR)	(IN/HR)
				-	•
1	30	22	1.2	0.24	0.28
	40	24	1.7	0.28	0.33
	50	26	1.8	0.26	0.30
	60	28	2.0	0.25	0.28
3	30	29	3.0	0.34	0.40
	40	32	3.1	0.29	0.34
	50	35	3.5	0.28	0.32
	60	37	3.8	0.27	0.31
4	30	31	3.4	0.34	0.39
	40	34	3.9	0.32	0.37
	50	37	4.4	0.31	0.36
	60	38	4.7	0.31	0.36
6	40	38	6.5	0.43	0.50
	50	40	7.3	0.44	0.51
	60	42	8.0	0.44	0.50
	70	44	8.6	0.43	0.49

Low Angle Metric Performance Data

Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
1	2.0	6.7	4.5	6.1	7.0
	3.0	7.3	6.4	7.2	8.3
	3.5	7.9	6.8	6.5	7.5
	4.0	8.5	7.6	6.2	7.2
3	2.0	8.8	11.4	8.7	10.1
	3.0	9.8	11.7	7.4	8.5
	3.5	10.7	13.2	7.0	8.1
	4.0	11.3	14.4	6.8	7.8
4	2.0	9.4	12.9	8.6	10.0
	3.0	10.4	14.8	8.2	9.5
	3.5	11.3	16.7	7.9	9.1
	4.0	11.6	17.8	8.0	9.2
6	3.0	11.6	24.6	11.0	12.7
	3.5	12.2	27.6	11.2	12.9
	4.0	12.8	30.3	11.1	12.8
	5.0	13.4	32.6	10.9	12.5

All precipitation rates are calculated at 360 degrees. For precipitation rates at 180 degrees, multiply by 2. Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with nozzle retention screw.

Metric Performance Data: 26 dogmas traisatom

Ritzen, Brenda

From:	Ritzen, Brenda
Sent:	Monday, January 13, 2020 11:37 AM
To:	Katelyn Neumann
Cc:	plan-it@hotmail.com
Subject:	Permit 110223
Attachments:	Pages from 110223.pdf

Re: Lewis Holman & Brenda Kay Oliphant Ensenada Shores at Canyon Lake Unit 2 Lot 260 Application for Permit for Authorization to Construct an On-Site Sewage Facility

Katelyn, Dave,

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

There are discrepancies on the 1st and 2nd pages of the permit application and within the planning materials, on the number of bedrooms and the gallons per day for the residence.

Submit the water line crossing attachment referenced on the design.

3. Revise as needed and resubmit.

Thank you,

Brenda Ritzen, OS0007722 Environmental Health Coordinator Comal County Engineers Office 195 David Jonas Drive New Braunfels, Texas 78132 830-608-2090 www.cceo.org

* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * * APPLICATION ON-SIT VOID Y AND LICENSE TO OPERATE

Date			Permit # //C	0223
Owner Name LEV	VIS HOLMAN OLIPHANT & BRENDA KAY OLIP	HANT Agent Name	DAVE MO	CGHEE
Mailing Address	c/o 23011 FM 306	Agent Address	5405 APACHI	E CREEK COVE
City, State, Zip	CANYON LAKE, TX 78133	City, State, Zip	AUSTIN, T	X 78735
Phone #	830-935-4936	Phone #	210-347	-1593
Email	katelyn@paulswoyerseptics.com	Email	plan-it@hot	mail.com
All correspo	ondence should be sent to: Owner	Agent 🖂 Both	Method: 🔲 M	lail 🖂 Email
Subdivision Name	ENSENADA SHORES AT CANYON LA	AKE Unit 2	Lot 260	Block
Acreage/Legal				
Street Name/Addr	ress SAN FELIPE	City C	ANYON LAKE	Zip 78133
Type of Developr	ment:			
🔀 Single Famil	ly Residential			JAN 1 0 2020
Type of Const	truction (House, Mobile, RV, Etc.) HC	DUSE		a state of the second
Number of Be	drooms 3			COUNTY ENGINEER
Indicate Sq Ft	of Living Area 2345			
Non-Single	Family Residential			
(Planning materia	als must show adequate land area for doubling th	e required land needed t	for treatment units and d	lisposal area)
Type of Facilit	ty			
Offices, Facto	ries, Churches, Schools, Parks, Etc Indica	te Number Of Occupa	nts	
Restaurants, I	Lounges, Theaters - Indicate Number of Sea	ts		
Hotel, Motel, H	Hospital, Nursing Home - Indicate Number of	Beds		
Travel Trailer/	RV Parks - Indicate Number of Spaces			
Miscellaneous	s			
Estimated Cost	of Construction: \$ 403,632 (Stru	cture Only)		
Is any portion of	the proposed OSSF located in the United St	ates Army Corps of E	ngineers (USACE) flo	wage easement?
🗌 Yes 🖂 N	IO (If yes, owner must provide approval from USACE	for proposed OSSF improv	ements within the USACE	flowage easement)
Source of Water	Public Private Well			
Are Water Saving	Devices Being Utilized Within the Residence	? 🛛 Yes 🔲 No		
By signing this applic The completed app	cation, I certify that: lication and all additional information submitted d	oes not contain any false	e information and does n	not conceal any material
Authorization is her	reby given to the permitting authority and designa	ted agents to enter upon	the above described pr	operty for the purpose of
site/soil evaluation	and inspection of private sewage facilities	ued until the Floodplain	Administrator has perfor	med the reviews required
by the Comal Court	ty Flood Damage Prevention Order.	and and the rooupiding		
I affirmatively conse	ent to the online posting/public release of my e-m	ail address associated w	ith this permit application	n, as applicable.
X	- Chat	12/26	119	

Signature of Owner

V

Date

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

Revised April 2019
* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * * APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE AND LICENSE TO OPERATE
Planning Materials & Site Evaluation as Required Completed By D. M. Cher
System Description Herovic Spraz
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) 600 GPD ATU Absorption/Application Area (Sq Ft) 4823
Gallons Per Day (As Per TCEQ Table III)
(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.)
Is the property located over the Edwards Recharge Zone? Yes No
(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) JAN 10 2020
Is there an existing TCEQ approved WPAP for the property? Yes
(If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
If there is no existing WPAP, does the proposed de antipological require a TCEQ approved WPAP? The terms of terms
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
is the property located over the Edwards Contributing Zone? Yes No
is there an existing TCEQ approval CZP for the property? Yes Yos
(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?
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
Is this property within an incorporated city? Yes No
If yes, indicate the city:
By signing this application. I certify that
- The information provided above is true and correct to the best of my knowledge.
- rammauvery consent to the online postagrpuoric release of my e-mail address associated with this permit application, as applicable.
Signature of Decignation - 1-2020
Dignature of Designer Page 2 of 2

195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078 Revised July 2018



RE: OSSF Design 108 San Felipe Comal COUNTY, TX

RECEIVED

JAN 1 0 2020

To Whom It May Concern

COUNTY ENGINEER

Please find enclosed the O<u>CSF</u> design of the less than 3500 square foot, 4-bedroom single family residence located at 108 San Felipe, Comal COUNTY, TX. The design was conducted exclusively for Kurk Homes on December 12, 2019.

VO

If you have any questions, please call. I appreciate the opportunity to be of service to you.

Sincerely,

Dave F. McGhee, D.R., S.E., R.S. Paul Swoyer Septics L.L.C.



SYSTEM SUMMARY

Paul Swoyer Septics L.L.C. began an On-Site Sewage Facility design located at 108 San Felipe, Comal COUNTY, TX. This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality and the more stringent rules set forth by Comal COUNTY.

This system is comprised of the following:

- System Designed For: 300 Gallons Per Day
- MaxxAir Aerobic System: Model M-600 (600GPD)
- NSF Approved Liquid Bleach Chlorinator EZ Tank
- Surface Irrigation Disposal: 4823 square feet of Application
- Timer: Grasslin Digi 20 capable of 1-minute switch times
- Utilizing 3 K-Rain Pro Plus Spray Heads with 180° Patterns Set at 32ft. Radii (#3 LA nozzle)
- Submersible Effluent Pump: Franklin C1 Series bottom suction pump 20XC1-05P4-2W115 Submersible pump @ 20 GPM

SITE DESCRIPTION AND SITE EVALUATION

The site evaluation indicated that the site has suitable soil for an aerobic surface irrigation system. No evidence of shallow ground water was observed during the site evaluation. Any exposed rock within the proposed surface distribution area will be removed or covered with a minimum of 4 inches of suitable soil and seeded prior to final inspection. (See landscaping for additional requirements). The single-family residence will utilize a public water supply as the source for potable water. All the systems components will be 100 ft. away from all wells. All portions of the spray radii will maintain at least a 20 feet separation from all property lines and flat work. No portion of this system lies within 10 feet of a waterline. There are no recharge features within 150 feet of this proposed system. No portion of this site lies within the 100-year flood plain. Minimum separation distance cas stated in 9 285.0 TCEQ, On-Site Sewage Facilities must be maintained.



WASTEWATER DESIGN FLOWS

The system was designed for a less than 3500 SF, 4-bedroom Single Family Residence, utilizing low-flow fixtures. The total projected daily wastewater flow is 300 gallons per day, as-per TCEQ, On-Site Sewage Facilities, effective December 27, 2012.

DESCRIPTION OF PROPOSED AEROBIC TREATMENT SYSTEM

The residence will utilize a MaxxAir aerobic wastewater treatment system Model M-600, a proprietary treatment plant, approved by the TCEQ for use in Texas. The Model M-600 is a three-compartment concrete tank. The aerobic system will consist of a 353-gallon pretreatment/trash tank compartment which will gravity flow into the 600 GPD aerobic treatment compartment. The effluent from the aeration tank will gravity flow into a 768-gallon pump tank compartment. An NSF approved LBC Manufacturing Model #EZ Tank Liquid chlorinator will be installed for disinfection. The pump tank compartment serves as a chlorine contact chamber as well as a storage tank. Distribution is through a 40 PSI pressure regulator then to purple 1" Sch. 40 PVC pipe, to 3 K-Rain Pro Plus Low Angle spray heads. The disposal area will consist of 3 - 32 ft. radii 180° patterns. The system is considered a "package system" and will be installed according to manufacturer's instructions.

DESIGN SPECIFICATIONS

Average Expected Flow: 240 Application Rate: 0.064 gal / ft^2 / day Minimum Application Area: A = Q/Ri A = 240 GPD / 0.064 = 3750 square feet Actual Application Area: A = 3.14 (32)² x 1.5 = 4823 square feet



RECEIVED

JAN 1 0 2020

COUNTY ENGINEER

AEROBIC SURFACE IRRIGATION

avid F. McGhee Jf

PLAN-IT CONTACT INFORMATION: 6208 TANGLEWOOD TRAIL - SPRING BRANCH - TEXAS - 78070 - 210-347-1593 PLAN-IT@HOTMAIL.COM



SYSTEM COMPONENTS

RECEIVED

JAN 1 0 2020

COUNTY ENGINEER

Trash Tank: 353 gallon one-compartment Aeration Tank: 600 GPD Pump Tank: 768-gallon compartment 14.49 gal/inch of depth (53" usable)

PUMP FLOAT SETTINGS

Pump-off Position: 6 inches above tank bottom Pump-on Position: 9 inches above tank bottom Alarm-on Position: 30 inches above tank bottom

Daily Operating Capacity: 21" x 14.49 gal/in = 304.29 gallons Reserve Capacity: 23"x 14.49 gal/in = 333.27 gallons

PUMP AND SPRINKLER HEADS

Pump: Franklin C1 Series bottom suction pump 20XC1-05P4-2W115 Submersible pump @ 20 GPM Spray Heads: K-Rain Spray heads Nozzle: 3.0 LA (Low angle trajectory, 13 degrees) operating at 40 PSI, 32ft radii and 3.1 GPM flow per spray head

Notes:

* A commercial irrigation timer will be used to cycle power to the pump in order to irrigate twice per night, once at 2:00 a.m. and again at 4:00 a.m.

FLOW, DOSING AND HEAD CA



Total Dynamic Head: 6 + 92.4 + 9.8 = 108.2ft (within the pump curve) (40 PSI)

CONSTRUCTION/INSTALLATION NOTES & REQUIREMENTS

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage • Facilities set forth by the Texas Administrative Code, §285 On-Site Sewage Facilities.
- The installer must have a current and valid Texas installer certificate and is required to have at the • minimum and Installer II certification.
- The installer must notify designer and regulatory authority at least 48 hours in advance to schedule • required inspections to ensure that the system is installed in accordance with approved plans and specifications.
- The installer may not alter these plans without the approval from the designer.
- If site conditions differ from that which is on the approved design, the installer must cease construction and contact the designer.
- Diversion berms will be placed when needed to protect irrigation and tank areas from excessive • runoff.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in • Chapter §285 On-Site Sewage Facilities.



RECEIVED JAN 1 0 2020 COUNTY ENGINEER

 No part of the system shall be located within 10 feet of a potable water line. If this is unavoidable, use Title 30 T.A.C Chapter 290 for the water line and OSSF supply line crossing

ELECTRICAL COMPONENTS

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

TANK NOTES

- The bottom of the excavation for the tanks shall be level and free of large rocks and debris.
- All tanks are to be set level on a minimum 4" to 6" inch layer of sand, sandy loam, clay loam, or pea gravel.
- Tanks will be backfilled with sand, sandy loam, clay loam, or pea gravel free of clay and/or large rocks.
- Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2012). This includes access limitation (<65lbs lid or hardware secured lid) and secondary plug, net, or mesh in riser. Septic tanks without risers shallower that 12" below grade may be exempt.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, and/or to prevent the infiltration of water.
- Tanks must be filled with water for at least 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8 inch per foot from house to tank.
- PVC pipe from house to tank must be at least Sch. 40 or SDR 26.

IRRIGATION AND LANDSCAPE

Irrigation lines shall be 1 incless VOID pply lines, so must be permanently colored improvement with larger diameter Sch. 10 PVC.

pply lines, sprinkler heads and valve cover boxes ipe that crosses any road, driveway, or other land

- Supply lines must be buried at least 6 inches below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify the property owner prior to removal of any trees/bushes that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4 inches of suitable soil.
- Vegetation must be established before system is in use.

ADDITIONAL NOTES

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when alarms are activated.
- The chlorinator must be constructed to allow a chlorine residual of 0.1 mg/L in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in Chapter §285 On-Site Sewage Facilities. Approved disinfection methods using chlorinated tablets must use calcium hypochlorite that is properly labeled for wastewater disinfection.



MAINTENANCE REQUIREMENTS

- RECEIVED JAN 1 0 2020 COUNTY ENGINEER The applicant must furnish to the regulatory authority a valid maintenance contract with a certified • maintenance company before a permit will be issued.
- The maintenance company will verify that the system is operating properly and provide on-going maintenance of the installation.
- The initial contract will be a minimum of two years. •
- A maintenance contract will authorize the maintenance company to maintain and repair the system . as needed.
- The property owner must continuously maintain a signed written contract with a valid maintenance • company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

AFFIDAVIT

•

- The applicant must file a certified copy of an affidavit at the County Clerk's Office and file in • reference to the real property deed on which the surface application system is to be installed.
 - The affidavit will state that the property shall not be transferred to a new owner without:
 - (1) The new owner being a wastewater disposal.

erty contains a surface application system for

- D the property being transferred to the new owner in (2) The permit issued to the accordance with Chapter 5265. 20(5) of the TCEQ OSSF Rules, i.e.; the permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF had been severed from the property.
- (3) The new owners submitting a valid maintenance contract to the permitting authority.

OPERATION AND MANAGEMENT NOTES

- The OSSF should not be treated as a normal city sewer. •
- The excessive use of in-sink garbage grinders and grease discarding should be avoided. In-sink garbage grinders can cause a rapid buildup of sludge or scum resulting in a more frequent cleaning and possible system failure.
- Do not use the toilet to dispose of cleaning tissue, cigarette butts, or other trash. This disposal • practice will waste water and also impose an undesirable solid load on the treatment system.
- Septic tanks shall be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device. If sludge or scum accumulates to this point, solids will leave the tank with the liquid and possibly cause the system to clog resulting in sewage surfacing or backing up into the house through plumbing fixtures.
- A regular schedule of cleaning the tank at two to three-year intervals should be established. . Commercial cleaners are equipped to readily perform the cleaning operation. Owners of OSSF's shall engage only persons registered with the TCEQ to transport the septic system waste.
- Do not build driveways, storage buildings, or other structures over system components or the • disposal field.
- Chemical additives or so-called enzymes are not necessary for the operation of a septic tank. Some • of these additives may even be harmful to the systems operation.
- Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.
- Chapter §285.39 states the owner shall not allow water softener or reverse osmosis back flush to enter into any portion of the OSSF.



JAN 1 0 2020 COUNTY ENGINEER The liquid from the OSSF is still heavily laden with bacteria. The surfacing of this liquid constitutes a hazard to the health of those that might come into contact with it.

WATER CONSERVATION PRACTICES

- Showers usually use less water than baths. Installing water saving shower heads that uses less than . 2.5 gallons per minute saves both water and energy.
- If you take a tub bath, reduce the level of the water in the tub from the level to which you customarily • fill it.
- Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.
- Leaking toilets may not be evident. Add a few drops of food coloring into the tank. Do not flush. If the color appears in the bowl within a few minutes, adjustments and/or repairs to the toilet need to be made.
- Reduce the amount of water used by the toilet by installing one of the following: a new 1.6 gallon . toilet, a toilet dam, or filling and capping a one quart plastic bottle with water and placing it into the tank. Do not use bricks as they may crumble and cause damage to the toilet.
- Install low-flow fixtures throughout the house and use faucet aerators that restrict water flow to help . reduce consumption.
- Try to run dishwasher with a
- eeth, washing hands or rinsing kitchen utensils. Avoid running the water continu
- ing water levels to match the size of the load. If Water can be saved in the laun the washing machine does not have a variable load control, water can be saved by running it only when the washer is full.
- Keep a container of drinking water in the refrigerator instead of running a faucet until it turns cool. ٠
- Insulate hot water pipes to avoid long delays of wasted water while waiting for the water to heat.
- Ask your federal, state, county, city or other local government about their programs to conserve water and how they can help you save water.

This proposed system has been designed generally following the minimum requirements under TCEQ Chapter §285 On-Site Sewage Facilities. The site evaluation and subsequent design are based on technical information currently available. There was no indication of shallow groundwater or slopes where seeps could occur at the time of the site evaluation. The performance of the OSSF is not, and cannot be guaranteed even though all provisions of the Standards have been complied with. If failure should occur, additions to the OSSF may have to be made. By accepting this design, the homeowner/builder understands that the designer/site evaluator will not be liable for more than the agreed upon design fee.

/2018 11:25:49 AM 1/2 RECEIVED **General Warranty Deed** JAN 1 0 2020 2018 Date: Grantor: Varinda Robinson COUNTY ENGINEER

Grantor's Mailing Address:

Ins Way

Grantee: Lewis Holman Oliphant and Brenda Kay Oliphant

Grantee's Mailing Address:

16BI CASTLEGROVE CT TOMBALL TX

Consideration:

Cash and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.

Property (including any improvements):

Lot 260, Ensenada Shores at Canyon Lake, Unit Two, Comal County, Texas, according to map or plat recorded in Volume 15, Pages 280-286, of the Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None

Exceptions to Conveyance and Warranty:

Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing instruments, other than conveyances of the surface fee estate, that affect the Property; and taxes for 2018, which Grantee assumes and agrees to pay, but not subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantor assumes.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

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

RECEIVED JAN 1 0 2020

COUNTY ENGINEER arinda Robinson

STATE OF VIRGINIA) COUNTY OF)

This instrument was acknowledged before me on October 1st any 2018, by Varinda Robinson.

I A Notary Rublic, State G

PREPARED IN THE OFFICE OF:

DWAIN W BLASCHKE P.O. Box 1744 Canyon Lake, TX 78133 Tel: (830) 964-4442 Fax: (830) 964-4426

> Filed and Recorded Official Public Records Bobbie Koepp. County Clerk Comal County, Texas 10/04/2018 11:25:49 AM TERRI 2 Page(s) 201806038954

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

Printed:3/4/2021 To: Sparky Oliphant Site: 607 Cielo Vista 607 Cielo Vista Canyon Lake, TX 78133 Canyon Lake, TX 78133 (713) 725-2803 Customer ID: 2086 Permit #: 110223 Contract Dates: 6/11/2020 - 6/11/2023 Agency: Comal County Inspection 1 of 9 Scheduled Date 2/11/2021 Sub: Ensenada Shores at Canyon Lake County: Comal County Mfg / Brand: - MAXX AIR Treatment Type: Aerobic Disposal: Surface Application GPS Coordinates - Latitude: 29.8643 Longitude: -98.2860 ✓ This counts as a type of "Scheduled Inspection" Service Type: Scheduled Inspection Entered By: Visit Date: 3/2/2021 Method: Grab Technician: Chris Zigalo Maint. Provider: Ryan Seidensticker Aerators: Operational Filters: Operational Irrigation Pumps: Operational Disinfection Device: Operational Chlorine Supply: Operational Chlorine Residual: 0.13 Sprinkler Drip Backwash: Good Tank Lid / Riser: Secured Electric Circuits: Operational Distribution System: Operational Color: Good Sprayfield Veg: Operational Odor: Good Alarm: Operational Comments Service Completed Scum on pretreatment:1" - Technician Secured the Tank Lid and/or Riser prior to leaving location. Insp ID #:8238 Owner signature: Provider: Christopher Ryan Seidensticker **PS Septic Supply & Service**

License Info: MP0001708 Expires:

License Info: MT001878 Expires: 7/31/2023

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

Printed:7/6/2021

To: Sparky Oliphant 607 Cielo Vista Canyon Lake, TX 78133

Permit #: 110223 Agency: Comal County County: Comal County Mfg / Brand: - MAXX AIR Treatment Type: Aerobic Disposal: Surface Application Service Type: Scheduled Inspection

Visit Date: 7/2/2021 Method: <u>Grab</u> Technician: Ryan Seidensticker Maint. Provider: Ryan Seidensticker

Aerators: <u>Operational</u> Filters: <u>Operational</u> Irrigation Pumps: <u>Operational</u> Disinfection Device: <u>Operational</u> Chlorine Supply: <u>Operational</u> Chlorine Residual: <u>2.20</u> Sludge Levels For Tank 1: <u>10</u>

For Tank 3: 4

Tank Lid / Riser: Secured

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

Color: Good Odor: Good

Alarm: Operational

Comments

- Scum=4 Technician Secured the Tank Lid and/or Riser prior to leaving location.

Owner signature:

Insp ID #:10663

Service Completed

Provider: Christopher Ryan Seidensticker *PS Septic Supply & Service* License Info: MP0001708 Expires: Technician: Christopher Ryan Seidensticker *PS Septic Supply & Service* License Info: MP0001708 Expires: 9/1/2023

Site: 607 Cielo Vista Canyon Lake, TX 78133 (713) 725-2803

Customer ID: 2086 Contract Dates: 6/11/2020 - 6/11/2023 Scheduled Date 7/11/2021 Inspection 2 of 9

GPS Coordinates - Latitude: 29.8643 Longitude: -98.2860

✓ This counts as a type of "Scheduled Inspection" Entered By: _

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

Printed:11/5/2021 Site: 607 Cielo Vista

(713) 725-2803

Inspection 3 of 9

Canyon Lake, TX 78133

To: Sparky Oliphant 607 Cielo Vista Canyon Lake, TX 78133

Permit #: 110223

Agency: Comal County County: Comal County Mfg / Brand: - MAXX AIR Treatment Type: Aerobic Disposal: Surface Application

Sub: Ensenada Shores at Canyon Lake

GPS Coordinates - Latitude: 29.8643 Longitude: -98.2860

Entered By: Danielle Jordan

This counts as a type of "Scheduled Inspection"

Contract Dates: 6/11/2020 - 6/11/2023

Customer ID: 2086

Scheduled Date: 11/11/2021

Service Type: Scheduled Inspection

Visit Date: 11/4/2021

Method: Grab

Technician: Michale Albers Maint. Provider: Ryan Seidensticker Aerators: <u>Operational</u> Filters: Operational

Irrigation Pumps: <u>Operational</u> Disinfection Device: <u>Operational</u> Chlorine Supply: <u>Operational</u> Chlorine Residual: <u>.1</u> Sludge Levels For Tank 1: 2

Tank Lid / Riser: Secured

Sprinkler Drip Backwash: Good

Electric Circuits: Operational Distribution System: Operational Sprayfield Veg: Operational

Color: <u>Good</u> Odor: <u>Good</u>

Alarm: Operational

Comments

Scum - 4" - Technician Secured the Tank Lid and/or Riser prior to leaving location.

✓ Service Completed

Insp ID #:12801

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

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

Printed:2/25/2022 Site: 607 Cielo Vista

To: Sparky Oliphant 607 Cielo Vista Canyon Lake, TX 78133

Permit #: 110223

Agency: Comal County County: Comal County Mfg / Brand: - MAXX AIR Treatment Type: Aerobic **Disposal: Surface Application** Sub: Ensenada Shores at Canyon Lake

(713) 725-2803

Scheduled Date: 3/11/2022

✓ This counts as a type of "Scheduled Inspection"

Service Type: Scheduled Inspection

Visit Date: 2/25/2022

Method: Grab

Technician: Not Assigned

Maint. Provider: Ryan Seidensticker

Aerators: Operational Filters: Operational Irrigation Pumps: Operational **Disinfection Device:** Operational Chlorine Supply: Operational Chlorine Residual: .26

For Tank 1: 24 For Tank 2: 1 For Tank 3: 1

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

Electric Circuits: Operational Distribution System: Operational Sprayfield Veg: Operational

Alarm: Operational

Comments

Scum on pretreatment 12" - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving.

Insp ID #:15737

✓ Service Completed

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

License Info: MP0001708 Expires:

Sludge Levels

Canyon Lake, TX 78133 Customer ID: 2086 Contract Dates: 6/11/2020 - 6/11/2023

GPS Coordinates - Latitude: 29.8643 Longitude: -98.2860

Entered By: _

Inspection 4 of 9

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

To: Sparky Oliphant 607 Cielo Vista Canyon Lake, TX 78133		Printed:7/11/2022 Site: 607 Cielo Vista Canyon Lake, TX 78133 (713) 725-2803
Permit #: 110223 Agency: Comal County County: Comal County Mfg / Brand: - MAXX AIR Treatment Type: Aerobic Disposal: Surface Application	C Sub: Ensenada Shores at Canyon Lake S GPS Coordina	Customer ID: 2086 Contract Dates: 6/11/2020 - 6/11/2023 Inspection 5 of 9 Inspection 5 of 9
Service Type: <u>Scheduled I</u> Visit Date: <u>7/8/2022</u> Method: <u>Grab</u> Technician: Not Assigned Maint. Provider: Ryan Seidenstick	nspection ker	 This counts as a type of "Scheduled Inspection" Entered By: <u>Michelle Irvin</u>
Aerators: <u>Operational</u> Filters: <u>Operational</u> Irrigation Pumps: <u>Operational</u> Disinfection Device: <u>Operational</u> Chlorine Supply: <u>Operational</u> Chlorine Residual: <u>.19</u>	<u>Sludge Levels</u> For Tank 1: <u>6</u> For Tank 3: <u>4</u>	
Electric Circuits: <u>Operational</u> Distribution System: <u>Operational</u> Sprayfield Veg: <u>Operational</u>	Tank Lid / Riser: <u>Secured</u> Color: <u>Good</u> Odor: <u>Good</u>	Sprinkler Drip Backwash: <u>Good</u>
Alarm: <u>Operational</u> Comments Scum = 2" - Technician Secured the	Tank Lid and/or Riser prior to leaving location	✓ Service Completed
Provider: Christopher Byan Sei	ansticher	Insp ID #:19376

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

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

	Printed:11/4/2022	Insp ID #:22486	Permit #: 110223	
To: Sparky Oliphant 607 Cielo Vista Canyon Lake, TX 78133			Main Pho W Cell Pho Alt C	one: (713) 725-2803 ork: one: Cell:
Agency: Comal County County: Comal County Mfg / Brand: - MAXX AIR Treatment Type: Aerobic Disposed: Surface Application	Sub: Ensenada Shores at Car	iyon Lake	Customer ID: 2086 Contract Dates: 6/11/2020 - 6/1 Scheduled Date: 11/11/2022	1/2023 Inspection 6 of 9
Service Type: <u>Scheduled In</u> Visit Date: <u>11/3/2022</u> Method: <u>Grab</u> Technician: Nick Zigalo Maint. Provider: Ryan Seidensticke	Ispection		✓ This counts as a type of "So Entered By: <u>Nick Zigalo</u>	cheduled Inspection"
Aerators: <u>Operational</u> Filters: <u>Operational</u> Irrigation Pumps: <u>Operational</u> Disinfection Device: <u>Operational</u> Chlorine Supply: <u>Operational</u> Chlorine Residual: <u>0.04</u>	<u>Sludge Leve</u> For Tank For Tank For Tank	l <u>s</u> 1: <u>12</u> 3: <u>20</u> 4: <u>2</u>		
Electric Circuits: <u>Operational</u> Distribution System: <u>Operational</u> Sprayfield Veg: <u>Operational</u>	Tank Lid / Rise Insp. Port / Plu	er: <u>Secured</u> Ig: <u>Secured</u>		
Alarm: <u>Operational</u> Comments scum in trash tank 3" - Technician Sec Secured prior to leaving.	cured the Tank Lid and/or R	iser prior to leaving	v solution Inspection Port Plug w Site: 607 Cielo Vista, C	Service Completed vas noted as Canyon Lake, TX 78133

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

License Info: MT0002016 Expires: 12/31/2023

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

	Printed:4/10/2023	Insp ID #:27359	Permit #: 110223	
To: Sparky Oliphant			Main Ph	one: (713) 725-2803
607 Cielo Vista			V	/ork:
Canyon Lake, TX 78133	3133		Cell Ph	one:
			Alt	Cell:
Assesse Correl County			Customer ID: 2086	3
			Contract Dates: 6/11/2020 - 6/1	1/2023
County: Comal County	Sub: Ensenada Shores at Ca	invon Lake	Scheduled Date: 3/11/2023	Inspection 7 of 9
Mfg / Brand: - MAXX AIR			I	nstalled: 6/11/2020
Treatment Type: Aerobic			Warra	anty End: 6/11/2023
Disposal: Surface Application			GPS Coordinates: Latitude: 29.8643 Longitude: -98.2860	
Service Type: <u>Schedule</u> Visit Date: <u>4/5/2023</u>	d Inspection		✓ This counts as a type of "S Entered By: Julie Feibel	cheduled Inspection" man

Method: <u>Grab</u> Technician: David Anastasi Maint. Provider: Ryan Seidensticker

Aerators: Operational	
Filters: Operational	
Irrigation Pumps: Operational	
Disinfection Device: Operational	
Chlorine Supply: Operational	
Chlorine Residual: 1.27	

Sludge Levels For Tank 1: 12 For Tank 2: NA For Tank 3: 34 For Tank 4: 1

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

Alarm: Operational

Comments

Service Completed

- Scum on pretreatment-22 - Checked floats, sprayers, chlorine & timer. Cleaned filter - uncloged tee - - Installed bolt on switch - Recommend Pumping soon-Jesse Ferguson-830-431-6104 - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving.

Site: 607 Cielo Vista, Canyon Lake, TX 78133

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

Luna Environmental

4222 FM 482 New Braunfels, TX 78132

Printed:10/30/2023

sherrie@lunaenvironmental.com

Permit: 110223

Site: 607 Cielo Vista, Canyon Lake, TX 78133 Main Phone: 7137252803 Cell Phone: 7137251914

Sparky & Brenda Oliphant 607 Cielo Vista Canyon Lake, TX 78133

Agency: Comal County County: Comal County Subdivision: Ensenada Shores at Canyon Lake

System Info: MFG: Brand: MA	XX AIR		Customer ID: <u>3485</u>
Treatment Type: <u>Aerobic</u>	Disposal Type: Surface Application		Insp ID: <u>34406</u>
Installed: <u>6/11/2020</u>	Warranty Expiration: 6/11/2023		
	Entered Bv: Rvan Seidensticker		<pre></pre>
Visit Date: <u>10/13/2023</u>		Contract Starts: 10/0/2022	Customer Empiled: 10/20/2022
Scheduled Date: <u>10/15/2023</u>			Customer Emailed. <u>10/30/2025</u>
Entered On: <u>10/13/2023</u>		Contract Ends: <u>10/9/2024</u>	
Visit Results			
Service Type: <u>Scheduled In</u>	<u>spection</u>		
Count: Inspection 1 of 3			
Method: <u>Grab</u>	License #	Expires	
Technician: Ronnie Ransom	<u>0002564</u>	<u>8/31/2026</u>	
Provider: Luna Environment	tal, LLC		Service Completed
Aerators: Operational			
Filters: Operational			
Irrigation Pumps: Operational			
Disinfection Device: Operational			
Chlorine Supply: Operational			
Chlorine Residual: <u>.1</u>			
	Tank Lid	Picor: Socurod	
Electric Circuits: Operational	Insp. Port	/ Plug: Secured	
Distribution System: Operational		, Tug. <u>Secureu</u>	
Drip/Sprayfield Veg: Operational			
Alarm: Operational	DCI Dr	essure: 23	
	r ji r i	Coource <u>2.0</u>	

Comments

Scum on pretreatment 0" replaced 2 damaged sprinklers - 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 10/30/2023.