

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

Issued This Date:	11/22/2019		Permit Number:	109869
Location Description:		S GARDENS BLVD NCH, TX 78070		
	Subdivision: Unit: Lot: Block: Acreage:	Cypress Lake Gardens High Country Section 2 108		
Type of System:	Aerobic Surface Irrigation	on		
Issued to:	Timothy Picket	t & Lori Smithey		

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.

OS0034792

Licensing Authority Comal County Environmental Health

ENVIRONMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEALTH COORDINATOR 002559

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	C	omal County OSSF In:	Environment spection She				
1st Inspection Date: Inspector Name:	`15:0e 19-19 ≈		OSSF Installer #: OS QUA 2929 2nd Inspection Date: 1 - 2 Inspector Name: 5- 0				
Permit#: 109869	Anwser	Citations	Address: <u>1761</u>	<u>Cypress</u>	Ist insp.	2nd Insp.	3rd Insp.
SITE AND SOLL 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)(ii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(ii)			N N N N N N N N N N N N N N N N N N N		and the second s
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)			(		1
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) TEEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		85 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)(i) 285 32(b)(1)(C)(ii) 285 32(b)(1)(C)(ii) 285 32(b)(1)(C) 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)					

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11-19-19 BMO Tank Set level No Leaks operational m fearly for Carer

11-22-19 BUD Correct

No.	Description	Anwser	Citations	Notes	- 1	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	1						
	Compartments Provided with	1	285.32(b)(1)(F)					1
(			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)					J.
1	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)					1
			285.32(b)(1)(A)					
		1	285.32(b)(1)(E)(iv)	· · · · · · · · · · · · · · · · · · ·				1
8					1			
	ALL TANKS Installed on 4" Sand				· · · · · ·		÷	56
	Cushion/ Proper Backfill Used		285.32(b)(1)(F)			, ils		
	cusinony rioper backing osed		285.32(b)(1)(G)			$\sqrt{2}$		6
		1	285.34(b)			11-14-14		
و						<u>v</u>		
	SEPTIC TANK Inspection / Clean							
	Out Port & Risers Provided on							
	Tanks Buried Greater than 12"		285.38(d)		· . •			
	Sealed and Capped							
				•				
10	SEPTIC TANK Secondary restraint			·····				
	system provided							
	SEPTIC TANK Riser permanently							
	fastened to lid or cast into tank							
	SEPTIC TANK Riser cap protected		285.38(d)					
	against unauthorized intrusions		285.38(e)					
11								-
	SEPTIC TANK Tank Volume							
	Installed		,					
12								
	PUMP TANK Volume Installed							
13				······································				
	AEROBIC TREATMENT UNIT Size			1 4		• •		A A
	Installed				· ·	1		
14								
F-	AEROBIC TREATMENT UNIT		- · · · · · · · · · · · · · · · · · · ·					
	Manufacturer							
!	AEROBIC TREATMENT UNIT	1		C. EL-DUNA		1		÷ [
	Model			Clear Stream				
1	Number					Ľ		
15			285.55(4)(4)	· · · · · · · · · · · · · · · · · · ·				
	DISPOSAL SYSTEM Absorptive		285.33(a)(1)					
			285.33(a)(2)					
	-		285.33(a)(3)					
16			285.33(a)(1)	· · · · · · · · · · · · · · · · · · ·				
	DISPOSAL SYSTEM Leaching							
	Chamber .		285.33(a)(3)			1		
			285.33(a)(4)					
17			285.33(a)(2)					
ŕ	DISPOSAL SYSTEM Evapo-		203.33(a)(3)					
	-		285.33(a)(4)				ł	
	Itranspirative							
	transpirative	· .	285.33(a)(1) 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)				
		36.954					
19							
	DISPOSAL SYSTEM Soil		205 22/4//4/	·			
20	Substitution		285.33(d)(4)	•			
	DISPOSAL SYSTEM Pumped		285.33(a)(3)		1.5.5.5.6		
}	Effluent		285.33(a)(1)				
21			285.33(a)(2):				er sa
	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(a)(3)				
			285.33(a)(1) 285.33(a)(2)			CZ C Marie La	
1.			285:33(a)(4)				
23							
	DISPOSAL SYSTEM Other		285.33(d)(6)				
	(describe) (Approved Design)		285.33(c)(4)	• · · · ·			
24	THE PROPERTY OF BUSINESS IN A RECEIPTION OF THE PROPERTY OF TH		19 19 19 19 19 19 19 19 19 19 19 19 19 1	# • • - • • • • • • • • • • • • • • • •			
1	DRAINFIELD Absorptive Drainline						
	3", PVC						
25	or 4" PVC						
26	DRAINFIELD Area Installed						en an
	DRAINFIELD Level to within 1 inch.	教会部					
ļ	per 25 feet and within 3 inches		285.33(b)(1)(A)(v)				
ł	over entire excavation		203.32(0)(1)(1)(1)				
27							
	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation						
	Separation DRAINFIELD Depth of						
ļ	Porous Media						
	DRAINFIELD Type of Porous Media						
1							
28							
	DRAINFIELD Pipe and Gravel		285,33(b)(1)(E)				Section 2
29	Geotextile Fabric in Place		**************************************				and an in the second
	DRAINFIELD Leaching Chambers						
1	DRAINFIELD Chambers - Open End						
	Plates w/Splash Plate, inspection - Port & Closed End Plates in Place -						
	(per manufacturers spec.)		285.33(c)(2)				
30	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length					-	
	& Width, and Adequate		, 205.22(d)(4)(c)(5)				•
{	Separation Distance between		285.33(d)(1)(C)(i)			*	
	Trenches						
31							

		1 sectors		11213-24-77 / L	and the second	1	S. 21	Sec. 1977 - 240	7473488		-12-11 SA	and in		2nd loca
No. Description		Anws	erse		Citations Cold Sold		Note	s in the second s	*\$45, 85, 77, 78	and 1st l	nsp.	2nd In	sp.:×ÿ	3rd Insp.
Only by Single Family Dwel	-7											1		
EFFLUENT DISPOSAL SYSTE	M					i i							Ì	
Topographic Slopes			- }											
- < 2.0% EFFLUENT DISPOSA				20		1								
Adequate Length of Drain Linear ft. for 2 bedrooms o			- 1		5.33(b)(3)(A)	1							1	
& an additional 400 ft. for					5.33(b)(3)(A)									
additional bedroom )					5.33(b)(3)(B)									
EFFLUENT DISPOSAL SYSTE		1.			285.91(13)									
Depth of 18 inches to 3 ft.					5.33(b)(3)(D)								1	
Separation of 1ft on botton restrictive horizon and gro				20	5.33(b)(3)(F)									
respectfully	unu water				-									
EFFLUENT DISPOSAL SYSTE	EM Lateral					· ·								
Drain Pipe (1.25 - 1.5" dia.)	) & Pipe Holes		Í			1								
( 3/16 - 1/4" dia. Hole Size	) 5 ft. Apart			/ .										
32	THE NUMBER OF STREET	1			• Frank and a standard and and the set	2 1 1 5 5 5 5 5 5	NOT TO MADE	Weinstein Torra stat	11 a. 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200	Station of the	· · · · · · · · · · · · · · · · · · ·	And the second second second	15. 54 25	1960 3000 March 1960 - 19
AEROBIC TREATMENT	A STATE OF A	1									<b>X</b> (.)	12.0.1		· (h)
Aerobic Unit Installed.		V,		2	85.32(c)(1)					N.11	~W( .			~K ]
to Approved Guideline	is.									11/21			1.0	124
AEROBIC TREATMENT	IINIT	1.2.3	228 232		And the second second	X x 1				anna an 7	100			
Inspection/Clean Out I	+irccane And and a								- XXX			10000		Section 1
Risers Provided														
AEROBIC TREATMENT	LINIT					1.36-2.55								
Secondary restraint sy	100 Ker 3 - 25 -					and the second second								
provided AEROBIC TRE			鬻											
UNIT Riser permanent	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			000 1939 - 14										
to lid or cast into tank	Salar Brite State States													
AEROBIC TREATMENT	1944 - 1945 - 17 C											an di san		5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
cap protected against														
unalitherized intrucies	ic second		12						100000 100000					
AEROBIC TREATMENT	No. 34 (29) Der Systemate					A STATEMENT		1999 A.			2007 <u>1997</u> 1997 - 1997			
Chlorinator Properly Ir	Contraction of the second seco	1. 1		1				and a second						
35 Chlorine Tablets in Pla	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
PUMP TANK Is the Pur		1	-23030 -	81995 B. P. P.	A CALLER AND A CALLER AND A CALLER AND A	1. 1. Son 280-1999.003 20	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		<u> </u>	April 279 44 24 1	er 10 june 170	60%3.1L)	<u></u>	<u>.</u>
approved concrete tar		1				] · .,		•				} .		
acceptable materials 8	-	1	1.	•				. ' ·	· ·		-	· 		
construction				•	•					Ł	-	· · ·	-	5
PUMP TANK Sampling	Port.	-	;		• • •					1		1 ·		·* ·
Provided in the Treate						N		•	•		-			
Line			•		· · ·	·	• -		• .'	•	-	1.		·. ·
PUMP TANK Check Va	lve and/or		, '×			· ·		÷ .			• •		•	
Anti- Siphon Device Pr		1		. •				• •	`.	·				
Required	1-					•		<u></u>						
PUMP TANK Audible a	nd Visual		·.											
High Water Alarm Inst								• •		•				
36 Separate Circuit From									· · ·					•
PUMP TANK Inspectio		:												
Port & Risers Provided								· .						
PUMP TANK Secondar								÷		e .				
system provided		1.	-									1		
PUMP TANK Riser per	manently													
fastened to lid or cast								. •	. •					
PUMP TANK Riser cap	protected	1	•											1
against unauthorized i			•											
37														~
PUMP TANK Secondar	y restraint	• • •				1					·			
38 system provided	,													
PUMP TANK Electrical	1	1				1.								
Connections in Approv														
39 Boxes / Wiring Buried		'											•	
					-									

ŀ				r Environmental Heanspection Sheet	alth		Film	$\boldsymbol{\lambda}$
No.	Description	Anwser	Citations	Notes		1st Insp.	2nd Insp.	3rd Insp.
	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color, Coded Purple?	V	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)			Liter Constraints		and
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)(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							3
44	PUMP TANK Material Type & Manufacturer							
45	PUMP TANK Type/Size of Pump Installed							

Page 5

			Comal County E OSSF Ins	Environmen spection She				
L	Installer Name: (OUT+) 1st Inspection Date: 11- Inspector Name: B.Ower	19-19	2nd Inspection Da			ection Date:		
	Permit#: 109869			Address: 1761 Cypress Garder blurd.				
No	Description SITE AND SOIL CONDITIONS &	Anwser	Citations 285.31(a)		lotes	1st Insp	. 2nd Insp.	3rd Insp.
1	STE AND SOLE CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	/	285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)			IV IV	$\mathbf{\hat{v}}$	
2	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)					
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G)285.32(b)(1 )(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(F) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(i) 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)(I)					
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)					

11-19-19 BMO Tank Set level No Leaks operational m Ready for Caper

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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)		4		ļ
	Baffle SEPTIC TANK Inlet Flowline		285.32(b)(1)(E)(ii)(II)				}
i i	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)		r		
			285.32(b)(1)(A)				
			285.32(b)(1)(E)(iv)		e *		
	· •		203.32(b)(1)(1)(1)				
8	ALL TANKS Installed on 4" Sand		/				
	Cushion/ Proper Backfill Used		285.32(b)(1)(F)		ila		
	cushiony Froper backing osed		285.32(b)(1)(G)		10,00		
		¥ .	285.34(b)		11-14-14		
9							
1	SEPTIC TANK Inspection / Clean						
	Out Port & Risers Provided on						
	Tanks Buried Greater than 12"		285.38(d)				
ļ	Sealed and Capped			· ·			
10							
	SEPTIC TANK Secondary restraint						
1	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			200100(0)				-
-	SEPTIC TANK Tank Volume						
	Installed						
12	PUMP TANK Volume Installed		······				
13	POWP TANK Volume installed						
15	AEROBIC TREATMENT UNIT Size		·····	· · // · /// · · /// · · · /// · · · /// ·			
	Installed			1.06	_		
				(n(U))			
14			•••• •• •••••				
	AEROBIC TREATMENT UNIT						
	Manufacturer			1. AS ATUA			l.
	AEROBIC TREATMENT UNIT			Clear Stream			
	Model			UCU OV			
15	Number		285.55(a)(4)				
	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1)				
1			285.33(a)(2)				
1		1	285.33(a)(3)				
16		ļ	285.33(a)(1)				
1	DISPOSAL SYSTEM Leaching	1	285.33(a)(1) 285.33(a)(3)		1		
	Chamber .		285.33(a)(3)				1
			285.33(a)(4) 285.33(a)(2)				
17							
	DISPOSAL SYSTEM Evapo-		203.33(8)(3)				
	transpirative		285.33(a)(4)				
			285.33(a)(1)				
18			285.33(a)(2)				

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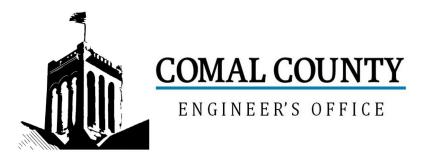
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No.	Description	Anwser	Citations	Notes	1st Insp.	2nd insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
		5-16-17-2					
19							
	DISPOSAL SYSTEM Soil		285.33(d)(4)				
20	Substitution		and a second	MANEN MARAMMANING TO THE AND DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION	Next the second second		
	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(3)				
	Enitent		285.33(a)(1) 285.33(a)(2)				
21	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(2)				
	DIST COAL STOTEIN GRAVENESS TIPE		285.33(a)(2)		~		
			285.33(a)(4)				
22			285.33(a)(1)				
	DISPOSAL SYSTEM Mound		285.33(a)(3)				
			285.33(a)(1)				
			285.33(a)(2) 285.33(a)(4)				
23			203.33(4)				
	DISPOSAL SYSTEM Other		285.33(d)(6)				
	(describe) (Approved Design)		285.33(c)(4)				
24		······					
	DRAINFIELD Absorptive Drainline						
	3" PVC or 4" PVC						
25	DRAINFIELD Area Installed						
26							
	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches						
	over entire excavation		285.33(b)(1)(A)(v)				
27							
	DRAINFIELD Excavation Width						
	DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation						
	Separation DRAINFIELD Depth of Porous Media						
	DRAINFIELD Type of Porous Media						
		244 A 4					
28							
	DRAINFIELD Pipe and Gravel -		285.33(b)(1)(E)				
29	Geotextile Fabric in Place		200100(0)(2)(2)				
	DRAINFIELD Leaching Chambers						
	DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection						
	Port & Closed End Plates in Place		285.33(c)(2)				
	(per manufacturers spec.)		(*)(*)				
1							2000 - 3-865 -
30							
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate		285.33(d)(1)(C)(i)				, ·
	Separation Distance between Trenches						. '
31			, 				

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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 & an additional 400 ft. for each		_285.33(b)(3)(A) 285.33(b)(3)(B)				
	additional bedroom ) 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 restrictive horizon and ground water		285.33(b)(3)(F)				
	respectfully						
	EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes		/				
	( 3/16 - 1/4" dia. Hole Size ) 5 ft. Apart						
32	AEROBIC TREATMENT UNIT IS	-/			4		
	Aerobic Unit Installed According	1	285.32(c)(1)		11-12-14		
33	to Approved Guidelines.				live,		
	AEROBIC TREATMENT UNIT Inspection/Clean Out Port &						
ļ	Risers Provided						
	AEROBIC TREATMENT UNIT						
	Secondary restraint system provided AEROBIC TREATMENT						
·	UNIT Riser permanently fastened						
	to lid or cast into tank						
	AEROBIC TREATMENT UNIT Riser cap protected against						
34	unauthorized intrusions						
	AEROBIC TREATMENT UNIT						
35	Chlorinator Properly Installed with Chlorine Tablets in Place.						
	PUMP TANK Is the Pump Tank an		<u> </u>				
	approved concrete tank or other acceptable materials &				2		
	construction				*		
	PUMP TANK Sampling Port					•	
	Provided in the Treated Effluent					· .	
	Line PUMP TANK Check Valve and/or	, **					
	Anti- Siphon Device Present When					1. C	
	Required PUMP TANK Audible and Visual	-					
	High Water Alarm Installed on						-
36	Separate Circuit From Pump						
	PUMP TANK Inspection/Clean Out Port & Risers Provided						
	PUMP TANK Secondary restraint						
	system provided						
	PUMP TANK Riser permanently fastened to lid or cast into tank						
	PUMP TANK Riser cap protected		-				
	against unauthorized intrusions			· · ·			
37							
38	PUMP TANK Secondary restraint system provided				-		
	PUMP TANK Electrical						
20	Connections in Approved Junction						
39	Boxes / Wiring Buried			l	ŀ		1

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	V	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)		U.L. C. IA		
	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						
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
	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:	109869
Issued This Date:	10/23/2019
This permit is hereby given to:	Timothy Pickett & Lori Smithey

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

1761 CYPRESS GARDENS BLVD SPRING BRANCH, TX 78070

Subdivision:Cypress Lake GardensUnit:High Country SectionLot:2Block:108Acreage:

## 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.

#### 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 <u>must</u> 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

Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.

Required Permit Fee - See Attached Fee Schedule

Copy of Recorded Deed

Surface Application/Aerobic Treatment System

Recorded Certification of OSSF Requiring 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

C	OMPLETEAPPLICATION
1	
Check	No Receipt No

10/09/20/9

INCOMPLETEAPPLICATION	
(Missing Items Circled, Application Refused)	

Revised: April 2019

#### \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \* <u>APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN</u> <u>ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE</u>

Date 10-12-09		Permit # 100	1869
Owner Name Trasty Pickett + Lari Smither	Agent Name	Hoxt Se	ently.
Mailing Address 20540 Hwy 4611520	Agent Address		in som
City, State, Zip Spring Breach Ta 78070	City, State, Zip		
Phone # 512 662 2321	Phone #	210 414	6603
Email timpickettusa@ychoa.con	Email		gyte.con.
All correspondence should be sent to:	ent Both	Method: 🔲 Mai	
		not Kot 2	
Subdivision Name Cypress Lake Gordens	Unit prace Cash		Block 08
Acreage/Legal			7- 2012
Street Name/Address 1761 Cypress Gorda BI	sd City 200	g Brond 12	Zip
Type of Development:			
Single Family Residential	141		
Type of Construction (House, Mobile, RV, Etc.)	bile		
Number of Bedrooms			
Indicate Sq Ft of Living Area 1500			
Non-Single Family Residential			
(Planning materials must show adequate land area for doubling the re	quired land needed for	r treatment units and dis	posal area)
Type of Facility			
Offices, Factories, Churches, Schools, Parks, Etc Indicate N	Number Of Occupan	ts	
Restaurants, Lounges, Theaters - Indicate Number of Seats			
Hotel, Motel, Hospital, Nursing Home - Indicate Number of Be			
Travel Trailer/RV Parks - Indicate Number of Spaces			
Miscellaneous			
Estimated Cost of Construction: \$ 75,000 (Structu	re Only)		
Is any portion of the proposed OSSF located in the United State	s Army Corps of En	gineers (USACE) flow	age easement?
Yes A No (If yes, owner must provide approval from USACE for	proposed OSSF improver	ments within the USACE flo	wage easement)
Source of Water 💢 Public 📋 Private Well			
Are Water Saving Devices Being Utilized Within the Residence?	Yes 🗌 No		
By signing this application, I certify that: - The completed application and all additional information submitted does facts.	not contain any false	information and does no	t conceal any material
- Authorization is hereby given to the permitting authority and designated	agents to enter upon t	he above described prop	perty for the purpose of
site/soil evaluation and inspection of private sewage facilities - I understand that a permit of authorization to construct will not be issued	until the Floodplain A	dministrator has perform	ed the reviews required
by the Comal County Flood Damage Prevention Order.			
- I affirmatively consent to the online posting/public release of my e-mail a	address associated wit	n this permit application,	as applicable.

Signature of Owner

10-9-19 Date

Page 1 of 2

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

**Revised April 2019** 

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH *** <b>Are Completed Completed By</b>	
DNSITE SEWAGE FACILITY AND LICENSE TO OPERATE         Planning Materials & Site Evaluation as Required Completed By	
Size of Septic System Required Based on Planning Materials & Soil Evaluation         Tank Size(s) (Gallons)       60 0 C(P)       0+       Absorption/Application Area (Sq Ft)       3983, 0.q         Gallons Per Day (As Per TCEQ Table III)       20       (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 (RS.) or Professional Engineer (P.E.)       Is there an existing TCEQ approved WPAP for the property?       Yes       No         (If yes, the R.S. or P.E. shall certify that the OSSF design complex 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?       Yes       No         (If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the proposed WPAP? A Permit to Construct will not be issued for the proposed OSFF unit the proposed WPAP?       Yes       No         (If yes, the R.S. or P.E. shall certify that the OSSF design complex with all provisions of the existing CZP.)       If there is no existing TCEQ approval CZP for the property?       Yes       No         (If yes, the P.E. or R.S. shall certify that the OSSF design complex with all provisions of the proposed CZP. A Permit to	
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By signing this application, I certify that:	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 coprect 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.

A	FIA	A	8-	27-19	
Signature of Designer	p	0	Date	,	1

Page 2 of 2

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

109869





906038045 10/23/2019 12:29:29 PM 1/1

COUNTY ENGINEER

Affidavit to the Public

**REVISED** 1:54 pm, Oct 23, 2019

THE COUNTY OF STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

Before me, the undersigned authority, on this day personally appeared <u>fine Tickeff</u> who, after being, by me, duly sworn, upon oath states that he/she is the owner of record of that certain tract or parcel of land lying and being situated in <u>County</u>, Texas and being more particularly described as follows:

Legal Description of property is as follows:

Lot 2, Block 10 8, Cypress LAKE GARdens, Hish country section

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property.

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

This OSSF must be covered by a continuous service policy for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single-family residence shall either obtain a maintenance contract within 30 days or maintain the system personally.

Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF may be obtained from (

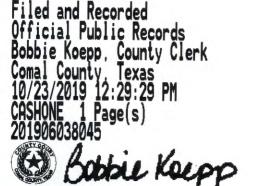
Signed by my/our	hand(s) on this	23rd Day	of october	2019
			Signature T~	Pil
			Print Name TIM	Pickett

Sworn to and subscribed to before Notary Public, in and for the state of Texas and

WITNESS MY HAND AND OFFICIAL SEAL THIS THE 23 DAY OF

anthe y Public, State of

My Commission Expires:





## Countryside Construction, Inc. 300 Chapman Parkway, Canyon Lake, TX. 78133 Phone: 830-899-2615 or 1-888-379-3721 Fax: 830-899-6662 Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:
Name:       Tim Pickett         Sub-Div./County:       Contract         Permit #:       Model #:    Address: 17(el CVRESS Ord Rdens Blvd City, State-Zip: Spring Branch TX 78070 Serial #:
( ) Initial Two Year Service Agreement (X) One Year Service Agreement & Two Year Limited Warranty
The effective date of this initial maintenance contract shall be the date the License to Operate is issued. This contract will be in effect FROM <u>LTO</u> TO and will provide the following:
This contract will be in effect FROM and will provide the following:
<ul> <li>A: An inspection/service call every (4) four months which will include: inspection, adjustments and servicing of the mechanical &amp; electrical components as necessary to insure proper function of the system.</li> <li>B: An effluent quality inspection consisting of a visual check for color, turbidity, scum, overflow and odor.</li> <li>C: The property owner is responsible for "purchasing and keeping chlorine" in the chlorinator, (if applicable). If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.</li> <li>D: if any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.</li> <li>E: The response time to a complaint by the property owner regarding operation of the system, shall be within "48 hours," from the time of notification.</li> <li>F: ANY PARTS, WARRANTY OR NON-WARRANTY, OR FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND COULD RESULT IN REPOSSION OF PARTS BY COUNTRYSIDE CONSTRUCTION.</li> <li>G: THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZESCOUNTRYSIDE CONSTRUCTION TO ENTER</li> </ul>
THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.
Countryside Construction, inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTED PARTS" EXCHANGED DURING WARRANTY. All other components will be according to manufacture's warranties. Important: As Countryside Construction, inc. <u>cannot control</u> what or how much effluent goes into this septic system, we <u>cannot warranty</u> how the system will function. Refer to manufactures or installer's instructions, for suggestions on septic operation. This service agreement <u>does not</u> cover the cost of "Service Calls, Labor or Materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oll, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost. This contract <u>does not</u> include the <u>pumping of a tank</u> or of any <u>compartment of a tank, or settlement of soil on or around any part of the system regardless of meason: Violations of the warranty also include: Disconnecting the alarm, restricting ventilation to the aerator, over loading the system abuse is a violation. Texas Commission on Environmental Quality requires a service contract to <u>be in effect for 2 years</u>. A renewal service contract <u>should</u> be <u>"Activated" (30) thirty dava</u> before expiration of existing contract. We will contact property owner prior to expiration of existing contract.</u>
Walker Chapman - Operator Licensee #2929
10 The Print Name 00 Tim Picket Date: 10/09/2019 Property Owner Signature 00 WOULD MAR Date: Authorized Service Representative (revised 11/19/07)

## Comal COUNTY ON-SITE SEWERAGE FACILITY Soil Evaluation Report Information

Date Soil Survey Performed:	7/29/2019		
Site Location:	1761 Cypress Garden Blvd		
Name of Site Evaluator:	Hoyt Seidensticker	Registration Number	OS0008771
Proposed Excavation Depth:	n/a	County:	Comal

Requirements:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area.

Location of soil boring or dug pits must be shown on the site drawing.

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

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

Soil Boring Number 1 Drainage Depth Texture Gravel (Redox Features/ Restrictive Observations (color, (feet) Class Soil Structure Water Table) Horizon consistence) Analysis 0 111 LOAM <30% none BROWN 1 12 in rock yes, rock 2 3 4 5 Soil Boring Number 2 Drainage Restrictive Depth Texture Gravel (Redox Features/ Observations (color, Class Water Table) Soil Structure Analysis Horizon consistence) (feet) 0 111 LOAM <30% none BROWN 1 12 in rock yes, rock 2 3 4

#### **Features of Site Area**

Aerobic

treatment

Presence of 100 year flood zone	Yes	No_x
Presence of adjacent ponds, streams, water improvements	Yes	No_x_
Existing or proposed water well in nearby area	Yes	No_x
Organized sewage service available to lot or tract	Yes	No <u>x</u>
Recharge feature within 150 feet	Yes	No <u>x</u>

By my signature, I herby certify that the information provided in this report is based on my site observations and are accurate to the best of my ability.

I understand that any misrepresentation of the information contained in this report my be grounds to revoke or suspend my license. The site evaluation

determined the site is suitable for a Spray Distribution

According to table XIII, the site is suitable for this proposed system. A copy of Tables IX and XIII have been given to the property owner to inform them of

other alternatives based upon the result of this site evaluation

Signature of Site Evaluator

812779 Date

disposal system with

ON-SITE SEWE			COUNTY Site Eval	ation Reno	ort Inform	ation		
Date: 7/29/201		ROLLI		adon Kepe		2001		
Applicant Information:			Site Eva	luator Inf	formati	on:		
Name: Timothy Pickett			Name:	Hoyt Seid	lenstick	er		
Address: 20540 HWY 46 115280				r:			p Service	es, LLC
City: Spring Branch_State: Texas	Zip	78070						
Phone:512-662-2321		0	City:	Boerne	State:	Texas	Zip:	78006
			Phone:	(210) 414	-6603	Fax:		
Property Location:								
Lot: 2 Block: 108 Sub.: India	n Hills,	High Co	puntry Sec	tion	Install	er inform	nation:	
Street/Road Address: 1761 Cypress Gan	den Blv	d.	Name:	Steve Gil	liam		OS000	4356
City: Spring Branch State: Texas	Zip:_	78070	Company	r:				
Unincorporated Area? Y or N	У		Address:		P.O. B	ox 1419		
Additional information			City: Cas	stroville	State:	Texas	_ Zip:	78009
			Phone:	(2010) 55	9-7329	Fax:		
absorption or irrigation area. Location of soil borings or dug pits Location of natural, constructed, of high tide of salt water bodies) wat	r propos	sed drain	age ways,	streams, po	onds, lak	es, rivers,	oreaks.	
			DRAWIN			): 		acres
SEE ATTACHED								
[]]	1	1	1					

Signature of Site Evaluator \_\_\_\_\_\_\_ Site Evaluator License No:\_\_\_\_\_\_OS0008771

				VISED
M 11/13/2019 ON-S	TE SEW	AGE FACILIT	Y 1:01	om, Nov 14, 2019
5:06 PM Aerobic with Spray	DESIGN	CRITERIA	10	9869
State Distribution System		PICKETT		
Property Information:		House Information		
St. Address: 1761 Cypress Garden	Blvd.	No. of Bedrooms:		3
City: Spring Branch State	a second	1000 00 00 00 00 00 00 00 00 00 00 00 00		
Zip code: 78070		Water Supply:		
Predicted Quantity of Sewage (Q)		Supply Line from Ho	use	
Water Saving Devises in Home (y/n)	: yes	Length of supply line	(approx. ft):	13
Gallons/day (C		Type of	supply line:	SCH 40 PVC
Greywater included (yes/no	): yes	Size of Sup	ply line (in):	3 or 4
Rate of Adsorption (Ra)		Supply Line For Spr	ay Irrigation	n System
Application rate (g/sq. f	t): <u>0.064</u>	Length of supply line	(approx. ft):	209
Minimum Adsorptive Area (sq. ft.)	3750	Type of s	supply line:	SCH 40 PVC
Aerobic Unit		Size of supp	oly line (in):	11
Required size of aerobic unit:	360 gpd	Disposal Area per th	is System	
Pretreatment Tank (gallons):	300	$\pi (32)^2/2$	=	1607.68
Class 1 Aerobic Unit:: Clear	stream 600NC3	$\pi (28)^2/2$		1230.88
Pump tank total capacity (gal):	620	$\pi (27)^2/4$	=	572.265
Chlorination: tablet	in Pump Tank	$\pi (27)^2/4$	=	572.265
Pump Switch operation:	Float			<u>k</u>
Dosing cycle quantity (gals):	Varied			
Cycling time:		Total irrigated a	rea (sq. ft.):	3983.09
Pump size and capacity: <u>Sta-r</u>	ite plus D series 2	Ogpm		

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 26, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hortfilth 11-13-19

Hoyt Seidensticker, R.S. No. 3588 Date Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006 Cell (210) 414-6603,



Effective Immediately: If any change(s) are made that require a revision to this design, a \$150.00 fee will be assessed. This includes,

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

11/13/2019 5:06 PM Aerobic with Spray Distribution System

## ON-SITE SEWAGE FACILITY DESIGN CRITERIA TIMOTHY PICKETT



### **Head Pressure**

Elevation Head:4Pressure Head:92Friction Head:8.36Total head:104.4

## **Sprinkler Head Information**

K-Rain sprinkler head I	PRO <i>PLUS,</i>	
low angle nozzle		
No. 3 @40psi	GPM:	3.1
Number of sprinkle	er heads:	2
Gallons p	er minute:	6.2

A class 1 aerobic wastewater treatment unit, chlorination and spray distribution system will be designed for this location. Wastewater from the residence will flow to a pretreatment/trash tank, then to the treatment unit. Treated effluent will be disinfected by chlorination in the pump tank before being disposed of through above ground sprinkler heads. All warning systems shall be installed with the aerobic unit.

Land acceptable for surface application shall have a flat terrain (with less than or equal to 15% slope). Sloped land (with greater than 15% slope) may be acceptable if it is properly landscaped and terraced to minimize runoff. There shall be nothing in the surface application area within ten feet of the sprinkler which would interfere with the uniform application of the effluent.

Areas that rock is exposed must be covered with a suitable amount of material acceptable to the inspecting authority. Areas that are bare or have been disturbed must be seeded or sodded with a mixture of rye and bermuda grasses or other grass species prior to system operation.

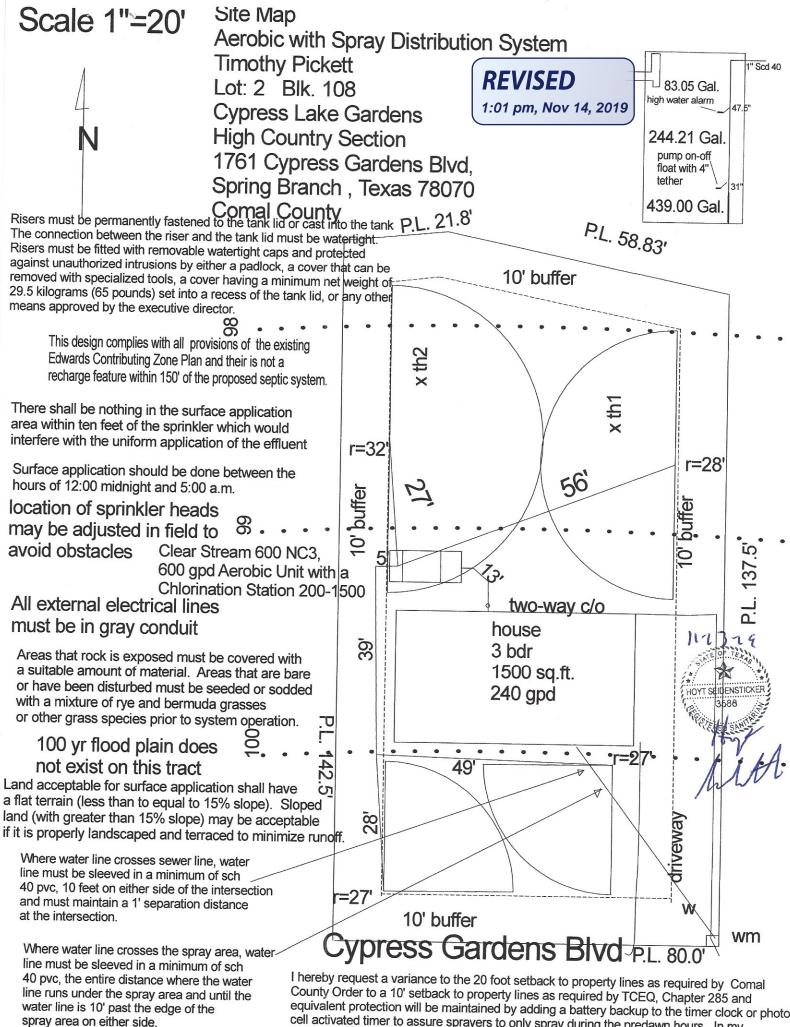
A maintenance contract for the entire system must be established at time of installation with someone holding a license to maintain the installed aerobic system.

At every inspection a Total Chlorine Residual test must be conducted and must be a minimum acceptable test of .1 mg/l residual in Pump Tank.

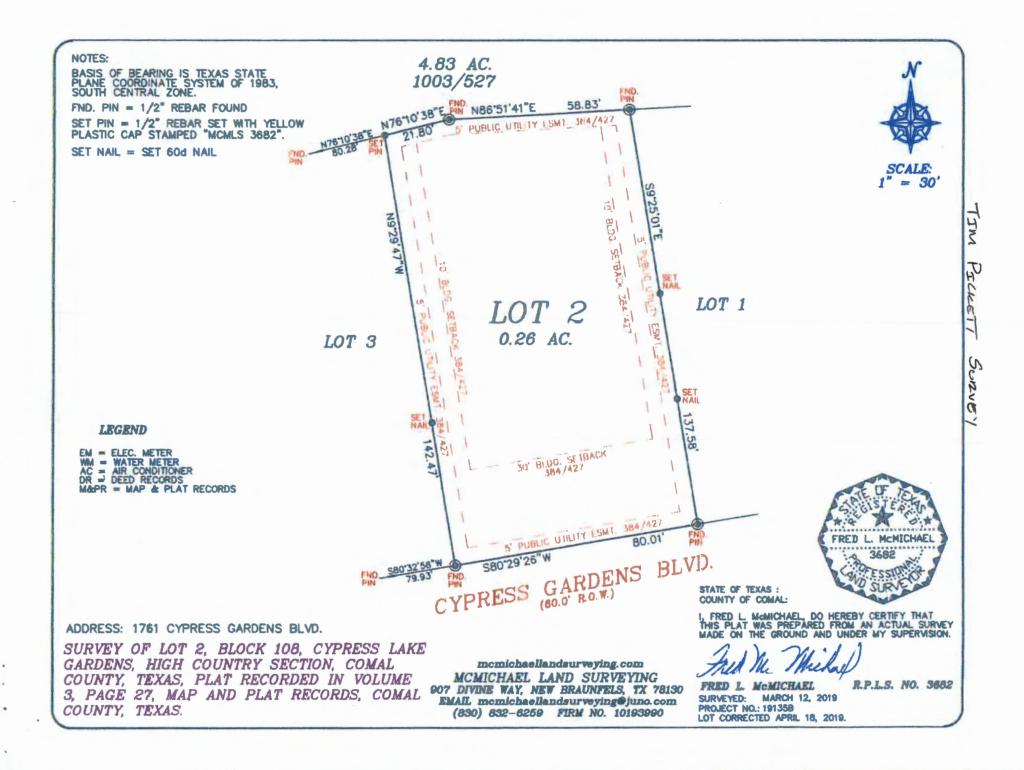
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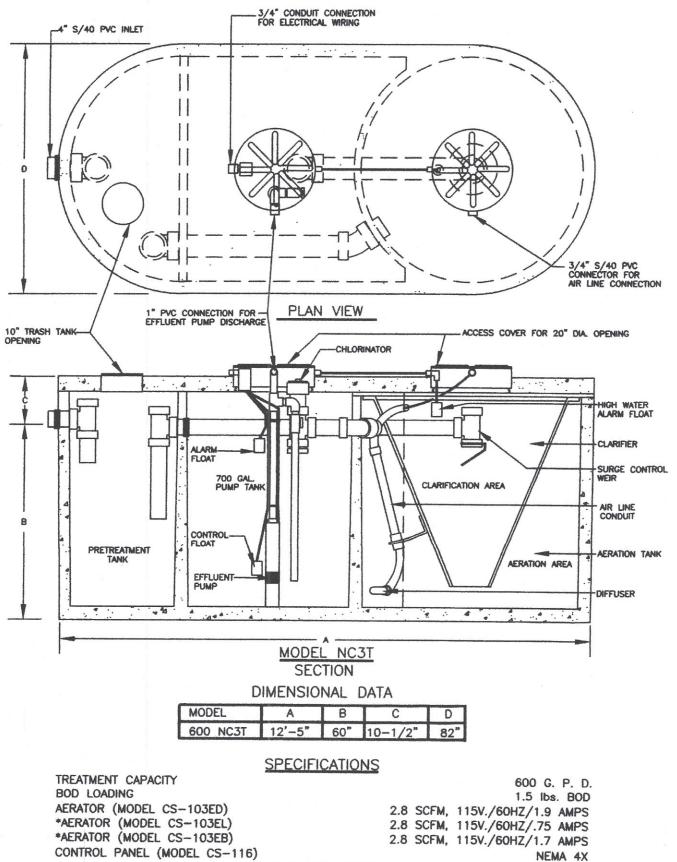
Hoyt Seidensticker, R.S. No. 3588 Date Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006 Cell (210) 414-6603,



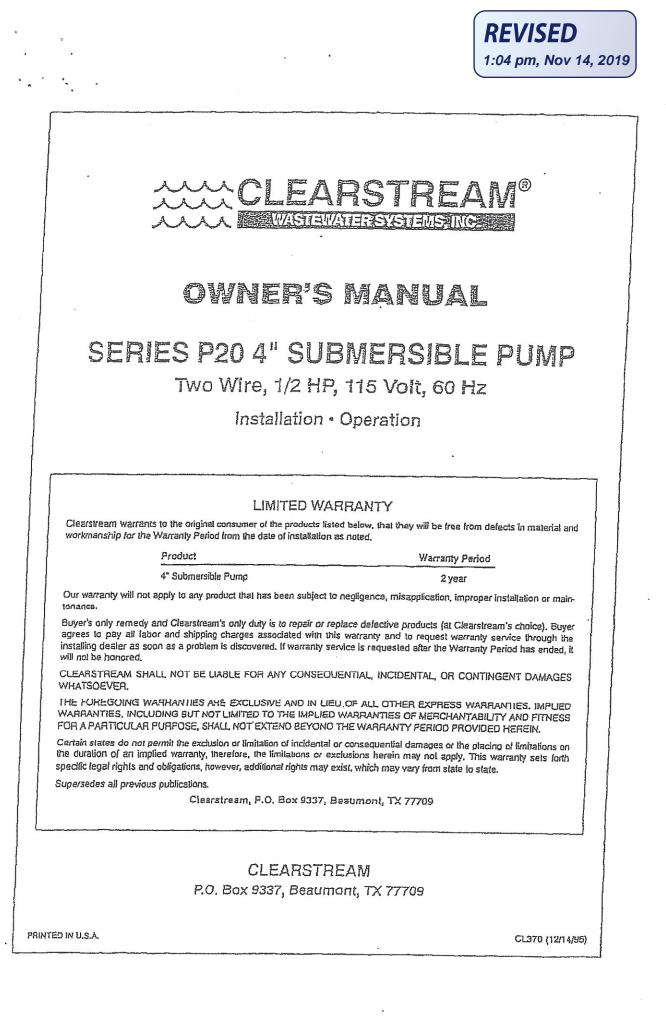
equivalent protection will be maintained by adding a battery backup to the timer clock or photo cell activated timer to assure sprayers to only spray during the predawn hours. In my professional opinion this variance will not pose a threat to the environment or public health.



#### DESIGN DRAWINGS



. ALTERNATE AERATOR OPTION



# ARSTRE

Hardware - All screws, washers and

nuls are corrosion-resistant 300

I Check Valve - Ourable internal chack

stainless steel guard protects motor

leads. Tapered ands prevent pump

SI Cable Guard - Corrosion-resistant

grade stainless steel.

from catching on well.

IE Corrosion-proof intake screen

# Franklin Electric Motor - 100%

corrosion-resistant staintess steel

construction. Constant lubrication through water-filled design.

Hermetically-sealed slator assures

moisture-free windings, Bullt-In surge arrester provided on 1/2 HP through 1-1/2 HP, single-phase

pumps for added protection, All

hrust obsorbed by nurable Kingsbury-type thrust bearing. Replaceable motor lead assembly.

HEMA slandard motors,

2- and 3-wire.

valva.

## Submersible Effluent Pump

GENERAL DESCRIPTION The P20 multislage submersible ellivent pump constructed from precision-engineered, corrosionresistant materials, is an industry leader in high pressure effluent removal. The lioating slack design resists abrasion wear and reduces molor bearing thrust loading. These pumps lealure the patented Signa-Seal<sup>®</sup> design, which provides dry running capability in the event ol a system failure. This patented Signa-Seal design has no industry equal.

APPLICATIONS

Cesigned for pumping fillered aitluent.

SPECIFICATIONS Shell: stainless steel

Discharge: fiberglass-reinforced

Instatoplastic Discharge bearing: Hylatron<sup>o</sup> Intermediate bearing: (en larger units) polycaroonata, nitrile rubbar,

and stainless steel Impellers: Detrin"

Dilluseis: Lexan"

Suction caps: Lexan? with stainless staat insert Thrust pads: proprietary spac.

Shalt and coupling: stainless steel Inlaka: liberglass-reinforced thermoplastic Inlake screen: polypropylene Cable guard: stzinless steel

Agency Listings: UL 778



FEATURES

- 😕 Palanied Staging System Our provan Signa-Saal<sup>14</sup> staging system incorporates a barder-than-sand ceramic wear surface that when incorporated with our lloating stack design, greatly reduces problems with abrasives, sand lock-up and running dry.
- 面 Discharge Fiberglass-reinforced thermoplastic material for durability in aggressive water. Oclagon-shaped to lift pipe wrench.
- Discharge Bearing Exclusive self-lubricaling Nylatron<sup>®</sup> bearing resists wear from sand.
- # Intake Fiberglass-reinforced thermoplastic material for durability in aggressive water,
- E Shaft Positive drive from hexagonal hazvy-duty 300 grade stainless steel.
- E Coupling Stainless steel prass fit to pump shaft. Couples to all standard NEMA motors. 运 Shall - Highast grads, heavy-walled
- corrosion-resistant stainless steal. Threaded for easy servicing.

#### ORDERING INFORMATION

-	Model No.	HP	Max. Load Amps	Volts	Phase/Cycles	Cordianall	
Ł	P20	1/2	12	115	1/50	100°	

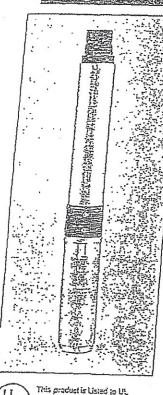
#### PERFORMANCE

Discharge Pracsura PSI	57	52	44	. 33	1 13
Gallans Per Minute	10	1 15	20	25	30

## - NOTE -

We have a wide range of sump/sewage/effluent pumps to offer. If you need a catalog showing other available units, please contact your Clearstream representative.

Clearstream Wastewater Systems, Inc. • P.O. Box 9337 • Beaumont, TX 77709 • (409) 755-1500 • Fax (409) 755-6500



Standards for Salary by

O Nylatron is a registered trademark of Polymer Corp.

O Lexan is a registered trademark of General Electric Co. C Debin is a registered trademark of E.I. DuPont de Nemours and Co. Specifications are subject to change

without notice.

Underwriters Laboratories Inc. (UL).

3

1:04 pm, Nov 14, 2019

#### TABLE OF CONTENTS

Warrenty
Safety Instructions
General
Electrical
Operation
Troubleshooting Guide

Carelully read and follow all safety instructions in this manual or on pump.

This is the safety alert symbol. When you see this symbol on your pump or in this manual, look for one of the following signal words and be alert to the potential for personal injury!

DANGER warns about hazards that will cause serious personal injury, death or major property damage if ignorad.

A WARNING WARNING warns about hazards that can cause serious personal injury, death or major property damage il ignored

A CAUTION CAUTION warns about hazards that will or can cause minor personal injury or property damage il ignored.

The word NOTICE indicates special instructions which are important but not related to hazards.

To avoid serious or latal personal injury and possible property damage, carefully read and follow the safety instructions.

AWARNING Under certain conditions, submersible pumps Hazerdous pressure a pressure relief valve capable of passing entire pump flow at 75 PSI.

Do not allow pump, piping, or any other system component containing water to Ireeza. Freezing may damage system, leading to Injury or flooding. Allowing pump or system components to freeze will void warranty.

2 AWARNING

1.

Harardous dangerous of fatal electric shock hazard, use voltage gump only in an effluent system, DO NOT

voltage pump only in an effluent system. DO NOT install pump in an upen body of water ( a lake, swimming pool, etc.).

Install, ground and wire pump according to local and Canadian Electrical Code or National Electrical Code requirements that apply.

Disconnect electrical power supply before installing or servicing pump.

Make sure motor nameplate voltage and frequency match line voltage and frequency of power supply.

- Install pump according to all plumbing, pump and well code requirements.
- Instail an all leg disconnect switch in the power supply near the pump.
- 3. Two-wire motors are equipped with automatic thermal overload protection which will open the circuit and stop the motor when a thermal overload (excessive heating) exists. When motor cools, overload will rest and motor will restart automatically. This can cause the motor to start unexpectedly and without warning.

#### GENERAL

Inspect pump and motor for delivery damage. Report any damage immediately to shipping carrier or to Clearstream immediately.

Have any installation, repair, or service work done by your

Clearstream dealer.

Never run pump dry.

During system operation, pump must be submerged at all times.

Pipe joint compound can cause cracking in plastics. Use only tefton tape when sealing joints in plastic pipe or connecting pipe to thermoplastic pumps.

Warranty is void in the following conditions:

· Water is highly corrosive.

- If entrained gas or air present in water being pumped reduce the flow and cause cavitation (which can damage the pump).
- Pump has been operated with discharge valve closed (severe internal damage will result).

#### ELECTRICAL

WIRING/GROUNDING



Ground pump, mator and control box before connecting power supply to mator.

Ground pump and motor in accordance with all codes and ordinances that apply. All wiring must meet National Electrical Code and Canadian Electrical Code (whichever applies). Use copper ground wire at least as large as wires carrying current to motor.

Motor is supplied with copper ground wire. Splice to copper conductor that matches motor wire size specified in Table 2. Use only copper vire for connections to pump.

Permanently ground pump and motor before connecting power cable to power supply. Connect ground wire to approved ground lirst, then connect to equipment being installed.

Do not ground to a gas supply line.

Float switches or any other approved motor control must match motor input in full load amperes.

For more information, contact your local code officials.

INSTALLATION WIRING INSTRUCTIONS Single Phase, 2 Wire

2-Wire pumps have two power supply wires (Red/Black) and one ground wire (Green).

- Fasten power supply wire leads securely to pump discharge seclion; leave 4-5° of slack in leads at this point. Securely testen leads to plastic pipe within 6° of the pump discharge section.
- Ground when must be as large as when supplying current to motor. Consult current National Electrical Code or Canadian Electrical Code (as applicable) and local codes for grounding information.
- Use only submersible power supply wires supplied by pump manufacturer. When installing pump, secure supply wires to discharge pipe with Scotch #33 electrical tape. DO NOT damage pump wires.

NOTICE: To avoid dropping pump or damaging wires or splices, NEVER allow pump wires to support weight of pump.

#### EFFLUENT APPLICATIONS

Pumps designed and tested for effluent applications must meet the following:

AWARNING Risk of electrical shock. Do not remove cord and strain relief. Do not connect conduit to pump.

- Only qualified personnel should install the pump and associated control equipment.
- 2. Vent sewage tank according to local code.
- Do not install pump in any location classified as hazardous by National Electrical Code, ANSI/NFPA 70-1984.
- .4. These pumps are intended for permanant connection only. Provide strain relief at control box for power supply cord connection to box. All control components must be UL listed and suitable for end use application.

#### PUMP INSTALLATION

- Make sure that pump and motor are line to rotate by luming the shaft by hand.
- To prevent dropping pump, lower it by the drop pipe, not by the cables. The electrical cables will not hold the pump weight.
- 3. Discharge outlet is 1-1/4" NPT threaded.
- NOTICE: Pump discharge is left-hand thread into pump shall. If installing external check valve, hold discharge with pipe wrench to prevent loosening discharge in shell.
- Il pump is to be operated with an open discharge, a discharge valve must be installed. "Balore startup, open this velve about 1/3



open. Start pump. Slowly open valve until the desired flow rate is reached. Final setting must be within pump's recommended operating range.

#### OPERATION

 The pump must be submerged at all times during normal operation. Do not run pump dry. Make sure that the float switches are set so that the pump stops before the pump runs dry or breaks suction. If necessary, adjust float switches to achieve this.

The motor bearings are lubricated internally. No maintenance is required or possible on the pump or the motor.

#### Table 1: Recommended Fusing Data 115 VolV60 Hz/1 Phase 2-Wire Cable

нр	Voltz/Hz/ Phase	Motor Winding Resistance Ohms	Max Load Amps	Locked Rotor Amps	Fuse Size Standard/ Dual Element
1/2	115/60/1	1.0-1.3	12.0	64.8	30/15

#### Table 2: Power Supply Wire (Cable) Length in Feet 1 Phase, 2 Wire Cable, 60 Hz (Copper Wire Size - Service to motor)

Volts	ЯН	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG	0 AWG
115	1/2	100	160	250	390	620	960	1190	1460	1780	2160

 Maximum wire lengths shown maintain motor voltage at 95% of service entrance voltage, running at maximum nameplate, amperes. If service entrance voltage will be at least motor nameplate voltage under normal load conditions, 50% additional length is permissable for all sizes.

2.Sizes given are for copper wire, For aluminum wire go two sizes 'larger (i.e., if table lists #12 copper wire, use #10 aluminum Wire.)

#### Motor Insulation Resistance Readings

Normal Ohm/Megohm readings for all motors, between all leads and ground. Set chmmmeter to 100K scale.

Condition of Motor and Leads	Ohm Value	Megohm Value
New molor, without power cable	20,000,000 (or more)	20.0
Used motor, which can be reinstalled in tank	10,000,000 (ur mare)	10.0
Motor in Tank - Readings are Powe	r Cable plus Motor	2.18.4.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
New Motor	2,000,000 (or more)	2.0
Motor in reasonably good condition	500,000 to 2,000,000	0.5-2.0
Motor which may be damaged or have damaged power cable Do not pull motor for these reasons	20,000 to 500,000	0.02-0.5
Motor definitely damaged or with damaged power cable Pull motor and repair	10,000 to 20,000	0.01-0.02
Failed motor or power cable Pull motor and repair	Less than 10,000	0-0.01

#### Important Electrical Grounding Information

A WARNING Hazardous voltage. Can shock, burn, or kill. To reduce the risk of electrical shock during pump operation, ground and bond the pump and motor as follows:

- A. To reduce risk of electrical shock from metal parts of the assembly other than the pump, bond together all metal parts accessible at the tank top (including metal discharge pipe, metal tank top, and the like). Use a metal bonding conductor at least as large as the power cable conductors running down the well to the pump's motor.
- B. Clamp or weld (or both if necessary) this bonding conductor to the grounding means provided with the pump, which will be the equip

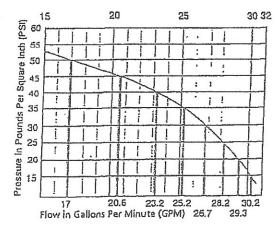
ment-grounding terminal, the grounding conductor on the pump housing, or an equipment-grounding lead. The equipment-grounding lead, when provided, will be the conductor having green insulation; it may also have one or more yellow stripes.

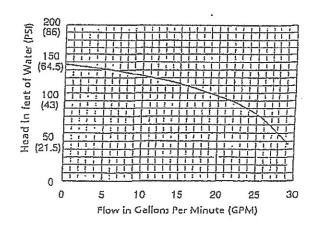
C. Ground the pump, motor, and any metallic conduit that carries power cable conductors. Ground these back to the service by connecting a copper conductor from the pump, motor, and conduit to the grounding screw provided within the supply-connection box wiring companment. This conductor must be at least as large as the circuit conductors supplying the pump.

Save these instructions.

## TROUBLESHOOTING GUIDE

PROBLEM	CHECK	CORRECTIVE ACTION
Motor will not start bu	t luses do not blow	
No voltage.	No voltage at control box or disconnect switch,	Replace blown luses or bad cable.
1	Electrical cable bad.	Consult licensed electrician or serviceman.
	Control box incorrectly wired.	Reconnect control box correctly (see Wiring Installation Diagrams).
	rolactor trips when motor starts	
Vitong size luse or wrong size lime delay luse.	Check luse size against chart, Page 2.	Install corract luse or time delay luse.
Wire siza too small.	Check wire size against chart, Page 3.	Install correct size wire.
Low or high voltage.	Check that line voltage is within ±10% of nameplata rated voltage while motor is running.	If voltage variation is greater than ±10%, call power company or local hydro authority to adjust voltage.
Power supply wire leads not correctly connected to control box.	Check control box wiring diagtam against incoming power hookup. Check power supply wire color coding.	Reconnect leads to match wiring diagram in control box cover. Reconnect power supply wires so wire color code matches motor lead color code.
Broken wire in control box.	Examine all connections and wiring in control box.	Disconnect power and repair or replace laulty wire.
Pump or molor sluck ar binding.	Check lor locked shalt in pump.	If necessary, pull pump (make all possible above ground checks first). If pump is locked, replace it. Clean tank of all sand or time, or solids before reinstalling pump.
Power supply wires ar matar leads grounded, stlarted, at open.	Consult licensed electrician or qualified servicemen.	Have a qualified servicemen or electrician make necessa cable repairs.
Fuses blow or overload pro	lector trips when motor is running	······································
I aw ar high vallage.	Check that line voltage is within ±10% of rated nameplate voltage while motor is running.	ll voltage variation is more than =10%, cuil power company to adjust voltage.
High ambient (almospheric) temperature.	Check temperature of tank	Protect tank from direct sunlight,
Wire size too small.	Check wire size against chart. Page 3,	Install correct wire size.
Pump slads too frequently		۲۰۰۳ - ۲۰۰۳ -
Leaks in system.	Check plumbing for leaks.	
Level switch.	Check for defective switch or switch out of adjustment.	Re-adjust or replace leval switch.
Check valves leaking.	Make sura check velves era not lasking back.	Replace check valves il necessary.
Inia or no wster delivered		
Check valve stuck or installed backwards	Examins valve.	If stuck, free value; if installed backwerds, reverse it,
.ow voltage.	Check voltage 21 control box with pump running. Check incoming wire size and power supply wire size against chart, Page 3.	Install larger wire from meter to control box. Install larger wire from control box to pumo. If necessary, have power company raise supply voltage.
lugged inlake screen.	Pull pump and check condition of screen.	Clean or replace as necessary.
heck valve at pump ischarge sluck.	Pull pump and examine check valve.	Free chack valve.
loin impellers and illusers.	Make sure system is clear of obstructions and pump is in solid water and operating normally.	Replace pump.
ump doesn't develop enoug essure ('head').	Check pump curve against operating conditions.	Replace pump with "higher head" pump.
ugged Impellers	Pull pump and examine impellers	Clean impetiers or replace pump stack.





#### Performance In GPM at Various Sprinkler Pressures In PSI

P5I	15	20	25	30	35	40	45	50
GPM	30.2	29.3	28.2	26.7	25.2	23.2	20.6	17

## Performance in Feel of Head at Gallons per Minute

GPM	0	5	10	15	20	25
FVHd	147	140	132	122	112	81 .

## **SPRINKLER INSTALLATION**

#### **INSTALL AND BURY**

Thread the sprinkler on the pipe. Bury the sprinkler flush to grade.

#### **POINTING THE LEFT START**

#### **TURN THE CAN**

You can orient the LEFT START position (the point where the sprinkler will begin spraying) by simply turning the entire sprinkler housing can on the pipe. Visually point the slot/arrow where you want the sprinkler to begin spraying.

#### **OR TURN THE LOWER PORTION OF THE RISER**

Pull the riser up with your K-Key. Grab the LOWER portion of the riser, and rotate it to orient the nozzle to the desired LEFT starting position. **IMPORTANT: DO NOT GRAB THE TOP PORTION OF THE RISER.** 

#### INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can. The filter is on the bottom of the sprinkler assembly and can easily be pulled out, cleaned and re-installed.

#### STANDARD NOZZLE PERFORMANCE CHART

	US	1		METRIC					
Nozzle	Pressure	Radius	Flow	Pres	sure	Radius	FI	low	
	PSI	Ft.	GPM	KPa	Bars	Meters	LM	M³/H	
<i>≇</i> 0.5	30	28'	.5	207	2.07	8.5	1.89	.11	
	40	29'	.6	276	2.76	8.8	2.27	.14	
	50	29'	.7	345	3.45	8.8	2.65	.16	
	60	30'	.8	414	4.14	9.1	3.03	.18	
#0.75	30	29'	.7	207	2.07	8.8	2.65	.16	
	40	30'	.8	276	2.76	9.1	3.03	.18	
	50	31'	.9	345	3.45	9.4	3.41	.20	
	60	32'	1.0	414	4.14	9.8	3.79	.23	
#1	30	32'	1.0	207	2.07	10.1	3.79	.23	
	40	33'	1.3	276	2.76	10.7	4.92	.30	
	50	34'	1.4	345	3.45	10.6	5.30	.32	
	60	35'	1.5	414	4.14	11.6	5.68	.34	
#2	30	37'	2.1	207	2.07	11.6	7.95	.48	
	40	40'	2.5	276	2.76	11.9	9.46	.57	
	50	42'	3.0	345	3.45	12.2	11.36	.68	
	60	43'	3.1	414	4.14	12.5	11.73	.70	
#2.5	30	38'	2.5	207	2.07	11.6	9.46	.57	
	40	39'	2.8	276	2.76	11.9	10.60	.64	
	50	40'	3.2	345	3.45	12.2	12.11	.73	
	60	41'	3.5	414	4.14	12.5	13.25	.79	
#3	30	38'	2.8	207	2.07	12.5	10.60	.64	
	40	39'	3.3	276	2.76	12.8	12.49	.75	
	50	41'	3.6	345	3.45	13.7	13.63	.82	
	60	42'	4.2	414	4.14	14.0	15.90	.95	
#4	30	43'	3.9	207	2.07	13.1	14.76	.89	
	40	44'	4.5	276	2.76	13.7	17.03	1.02	
	50	46'	5.4	345	3.45	14.3	20.44	1.23	
	60	49'	5.8	414	4.14	15.9	21.95	1.32	
#6	40	45'	6.2	276	2.76	14.9	23.47	1.41	
	50	46'	7.0	345	3.45	15.5	26.50	1.59	
	60	48'	7.9	414	4.14	16.5	29.90	1.79	
	70	49'	8.1	483	4.83	16.8	30.66	1.84	
#8	40	42'	8.0	276	2.76	14.3	30.28	1.82	
	50	45'	8.9	345	3.45	15.5	33.69	2.02	
	60	49'	9.6	414	4.14	16.2	37.09	2.23	
	70	50'	10.6	483	4.83	16.8	40.12	2.41	



		US		METRIC						
Nozzle	Pressure	Radius	Flow	Pres	sure	Radius	FIC	ow		
	PSI	Ft.	GPM	KPa	Bars	Meters	LM	M³/H		
#1	30	22'	1.5	207	2.07	6.71	5.68	.34		
	40	24'	1.7	276	2.76	7.32	6.43	.39		
	50	26'	1.8	345	3.45	7.92	6.81	.41		
	60	28'	2.0	414	4.14	8.53	7.57	.45		
#3	30	29'	3.0	207	2.07	8.84	11.36	.68		
	40	32'	3.1	276	2.76	9.75	11.73	.70		
	50	35'	3.5	345	3.45	10.67	13.25	.79		
	60	37'	3.8	414	4.14	11.28	14.38	.86		
#4	30	31'	3.4	207	2.07	9.45	12.87	.77		
	40	34'	3.9	276	2.76	10.36	14.76	.89		
	50	37'	4.4	345	3.45	11.28	16.65	1.00		
	60	38'	4.7	414	4.14	11.58	17.79	1.07		

DATA REPRESENTS TEST RESULTS IN ZERO WIND FOR PROPLUS. ADJUST FOR LOCAL CONDITIONS. RADIUS MAY BE REDUCED WITH NOZZLE RETENTION SCREW.

6.5

7.3

8.0

86

276

345

414

483

2.76

3.45

4.14

4 83

11.58

12.19

12.80

13 41

24.60

32.28

32.55

27.63 1.66

1.48

1.82

1.95

#6

40

50

60

70

38

40'

42'

44'

# PROPLUS® GEAR LRIVEN SPRINKLER SETTING INSTRUCTIONS

**NOTE:** All of our sprinklers are preset for you with a 90° arc setting, and include a pre-installed #2.5 nozzle.

## CHANGING A NOZZLE

## **USE YOUR K-KEY**

After you remove the nozzle retention screw with your K-Key, insert the K-Key into the keyhole on the top of the turret. Then, turn the K-Key 1/4 turn so it doesn't slip out of the hole when you pull it up.

## PULL UP THE RISER

Firmly pull the entire spring loaded riser up with the K-Key to access the nozzle socket. Hold the riser up with one hand.



### REMOVE THE NOZZLE

With the nozzle retention screw removed, insert the K-Key into the slot directly under the nozzle "prongs" at the top of the nozzle. Now, pivot your K-Key 1/4 of a turn to "hook" the nozzle and pull the nozzle out.



## INSTALL A NOZZLE

Press the desired nozzle into the nozzle socket. Make sure the nozzle number is visible and the nozzle "prongs" are up. Then, re-install the nozzle retention screw. NOTE: The nozzle retention screw is also a break-up screw and adjusts the distance of the spray.

## PROPLUS IS ADJUSTABLE AND CONTINUOUS 360° ALL IN ONE MODEL

SETTING THE ARC ADJUSTMENT (PRESET AT 90°)

#### FIND THE LEFT START POSITION

First, rotate the turret with your fingers around to the RIGHT (clockwise) until it stops. Then, rotate the turret around to the LEFT until it stops again. This is the LEFT START position. The sprinkler will begin spraying from this point and will rotate clockwise.

### TO CHANGE THE ARC SETTING BEFORE INSTALLATION

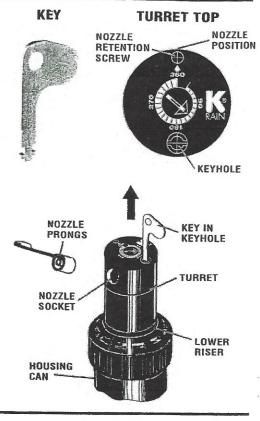
Follow step 5 above to find the LEFT START as a reference point. To INCREASE THE ARC, insert the K-Key into the arc indication ARROW SLOT at the center of the turret. While holding the turret with your fingers, turn the K-Key CLOCKWISE until the arc INDICATION ARROW POINTS TO the RIGHT STOPPING POINT.

## WHEN SET AT 360°, PROPLUS WILL ROTATE CONTINUOUSLY IN A CLOCKWISE DIRECTION.

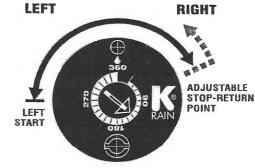
To DECREASE THE ARC, hold the turret steady and turn the K-Key COUNTERCLOCKWISE to the desired setting.

#### WITH THE SPRINKLER RUNNING

Follow step 2, hand-spinning the turret gently in the direction it is spraying. Once you have found the LEFT START as a reference point, following the directions to INCREASE THE ARC or DECREASE THE ARC as shown above.



REVISED



ARC SELECTION:



### Ritzen, Brenda

From: Sent: To: Subject: Ritzen, Brenda Thursday, November 14, 2019 11:29 AM 'hoyt@gvtc.com'; 'Paul Wojahn' RE: permit 109869 - 1761 Cypress Gardens Blvd

Hoyt,

There was only the Design Criteria page attached indicating Clearstream. Please provide the remainder of the planning materials if revising to Clearstream.

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: hoyt@gvtc.com <hoyt@gvtc.com>
Sent: Thursday, November 14, 2019 4:28 AM
To: 'Paul Wojahn' <plwojahn@yahoo.com>; Ritzen, Brenda <rabbjr@co.comal.tx.us>
Cc: Hernandez, Sandra <rabsah@co.comal.tx.us>
Subject: permit 109869 - 1761 Cypress Gardens Blvd

## 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 II

Here is an as built for this permit

Hoyt

From: Paul Wojahn cplwojahn@yahoo.com>
Sent: Wednesday, November 13, 2019 11:17 AM
To: Hoyt Seidensticker <hoyt@gvtc.com>
Subject: Revision 1761 Cypress Gardens Blvd

please change tank to a Clear stream 600 NC3. Also the water line was installed as shown and owner will sleeve it thru the spray area. Thanks Paul

11/13/2019			R	EVISED
5:06 PM	N-SITE SEV	VAGE FACILI	Y 11:	17 am, Nov 14, 2019
Aerobic with Spray	PESIGN	CRITERIA	7	09869
Distribution System	VOID	PICKETT	1	0 - 1
Property Information:		House Information		
St. Address: 1761 Cypress G	No. of Bedrooms	:	3	
City: Spring Branch	_State: Texas	Sq. footage (Approx.)	And the second	
Zip code: <u>78070</u>	2			
Predicted Quantity of Sewag	Water Supply: <u>Canyon Lake Water</u> Supply Line from House			
Water Saving Devises in Home	e (y/n):yes	Length of supply line (		13
Gallons/	day (Q):240			SCH 40 PVC
Greywater included (	Size of Sup			
Rate of Adsorption (Ra)	Supply Line For Spray Irrigation System			
Application rate (	Length of supply line (approx. ft):209			
Minimum Adsorptive Area (sq. ft.): 3750		Type of supply line: SC		
Aerobic Unit		Size of suppl		
Required size of aerobic unit:		isposal Area per thi		
Pretreatment Tank (gallons):	300	$\pi (32)^2/2$	=	1607.68
Class 1 Aerobic Unit::	Clearstream 600NC3	$\pi (28)^2/2$	=	1230.88
Pump tank total capacity (gal):	620	$\pi (27)^2/4$	=	572.265
	tablet in Pump Tank	$\pi (27)^2/4$	=	572.265
Pump Switch operation:	Float		=	l.
Dosing cycle quantity (gals):	Varied			-
Cycling time:	night time	Total irrigated are	ea (sq. ft.):	3983.09
Pump size and capacity:	Sta-rite plus D series 20			

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 26, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Thilth

11-13-19 Hoyt Seidensticker, R.S. No. 3588 Date Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006 Cell (210) 414-6603,



Effective Immediately: If any change(s) are made that require a revision to this design, a \$150.00 fee will be assessed. This includes,

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

8/27/2019 6:04 AM Aerobic with Spray Distribution System Property Information:		AGE FACILITY CRITERIA PICKETT House Information	~	
St. Address: 1761 Cypress Ga	rden Blvd.	No. of Bedrooms:	3	
City: Spring Branch State: Texas		Sq. footage (Approx.):	1500	
Zip code: 78070		Water Supply: Cany		
Predicted Quantity of Sewage	e (Q)	Supply Line from House		
Water Saving Devises in Home	(y/n): yes	Length of supply line (approx. ft):	6	
Gallons/d	ay (Q): 240	Type of supply line:		
Greywater included (yes/no): yes		Size of Supply line (in):	3 or 4	
Rate of Adsorption (Ra)		Supply Line For Spray Irrigation System		
Application rate (g/sq. ft):0.064		Length of supply line (approx. ft):209		
Minimum Adsorptive Area (sq. ft.): 3750		Type of supply line:	SCH 40 PVC	
Aerobic Unit		Size of supply line (in):	1	
Required size of aerobic unit:	360 gpd	Disposal Area per this System		
Pretreatment Tank (gallons):	400	$\pi (32)^2/2 =$	1607.68	
Class 1 Aerobic Unit::	TexAir 600 S PT 792	$\pi (28)^2/2 =$	1230.88	
Pump tank total capacity (gal):	792	$\pi (27)^2/4 =$	572.265	
Chlorination:	Liquid installed	<b>D</b> $\pi (27)^2/4 =$	572.265	
Pump Switch operation:	Float system	=		
Dosing cycle quantity (gals):	Varied			
Cycling time:	night time	Total irrigated area (sq. ft.):	3983.09	
Pump size and capacity:	RapidFlo MA0414X-7	1 HP pump		

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 26, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

8-27-19

Hoyt Seidensticker, R.S. No. 3588DateLand Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006Cell (210) 414-6603,



Effective Immediately: If any change(s) are made that require a revision to this design, a \$150.00 fee will be assessed. This includes,

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

8/27/2019	ON-SIT	E SEWAGE FACILITY	Y	
6:04 AM Aerobic with Spray		OID CRITERIA		
Distribution System		INOTHY PICKETT		
Head Pressure		Sprinkler Head Inform	ation	
Elevation Hea	id:	K-Rain sprinkler head F	PRO <i>PLUS</i> ,	
Pressure Hea	d: 92	low angle nozzle		
Friction Hea	d: 8.36	No. 3 @40psi	GPM:	3.1
Total hea	ad: <u>104.4</u>	Number of sprinkler heads:		2
		Gallons pe	er minute:	6.2

A class 1 aerobic wastewater treatment unit, chlorination and spray distribution system will be designed for this location. Wastewater from the residence will flow to a pretreatment/trash tank, then to the treatment unit. Treated effluent will be disinfected by chlorination in the pump tank before being disposed of through above ground sprinkler heads. All warning systems shall be installed with the aerobic unit.

Land acceptable for surface application



a lat terrain (with less than or equal to 15% slope). Sloped land (with greater than 15% slope) may be acceptable if it is properly landscaped and terraced to minimize runoff. There shall be nothing in the surface application area within ten feet of the sprinkler which would interfere with the uniform application of the effluent.

Areas that rock is exposed must be covered with a suitable amount of material acceptable to the inspecting authority. Areas that are bare or have been disturbed must be seeded or sodded with a mixture of rye and bermuda grasses or other grass species prior to system operation.

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

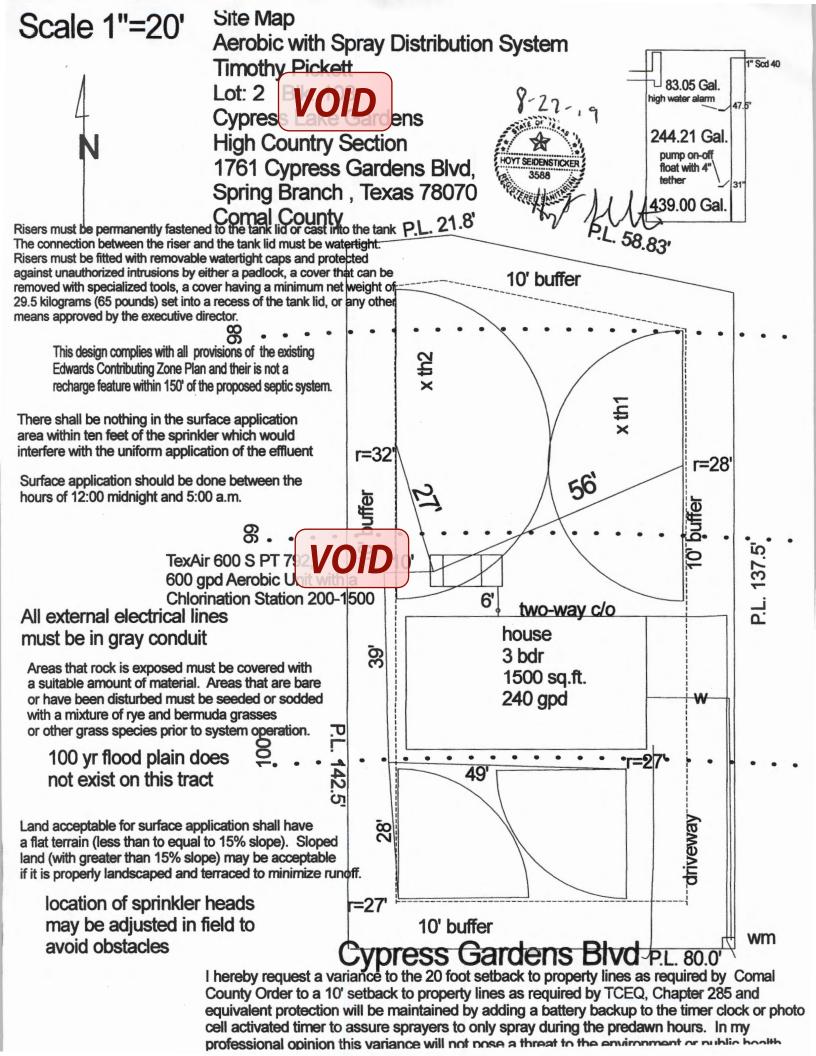
At every inspection a Total Chlorine Residual test must be conducted and must be a minimum acceptable test of .1 mg/l residual in Pump Tank.

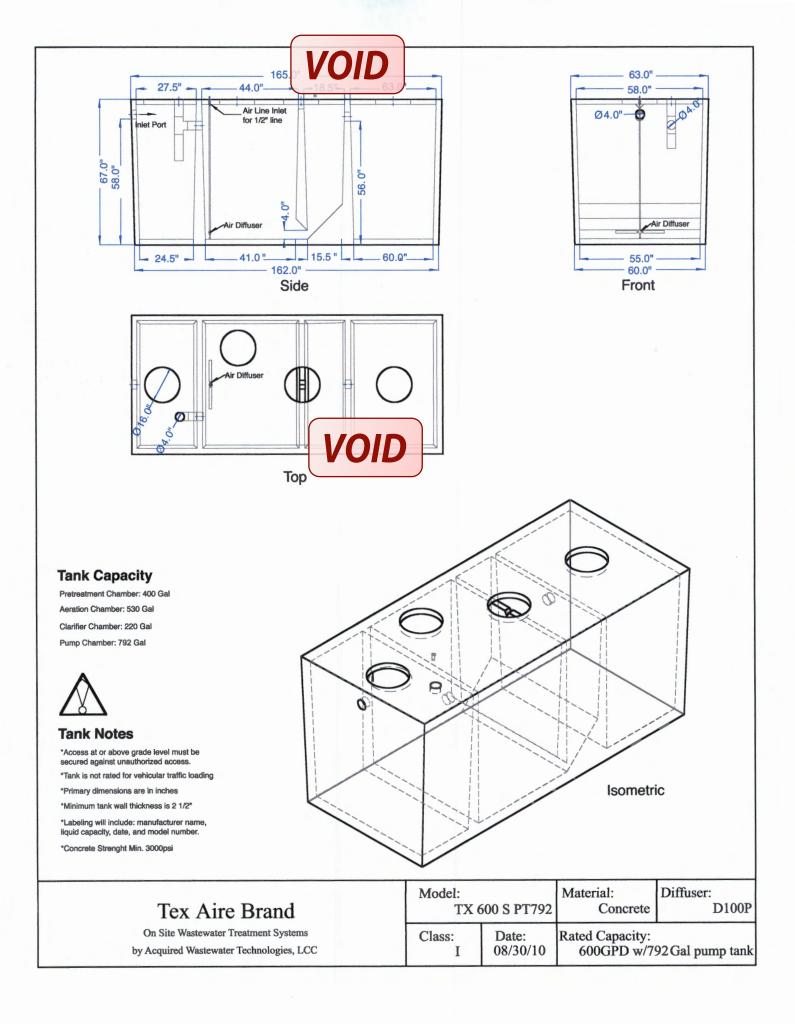
All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 26, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

8-27-14



Hovt Seidensticker, R.S. No. 3588 Date Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006 Cell (210) 414-6603.





\$



# **VOID**<sup>4</sup> Deep Well Submersible Pump **Performance chart**

Rap	nid	IR	Ø®	VO	DID	4 De		ell Sul forma			Pump		
Power		Flow M <sup>3</sup> /H	0	1	2	2.6	3.2	3.6	4.2	4.5	Weight		
Part #	rt # HP Vo	Volt	Amp	Flow (GPM) 0	4.6	9.1	11.5	14	16	18.4	20	(lbs)	
MA0343X-4	1/2	115	6.5	Head (ft)	154	142	120	103	80	56	27	5	26
MA0343X-4A	1/2	230	3.3	Head (ft)	154	142	120	103	80	56	27	5	261



624 Estes Ave, Schaumburg, IL 60193, USA • Ph: 847-301-8050 • www.hallmarkind.com

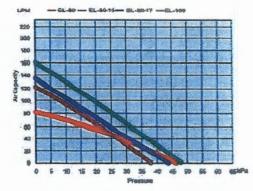


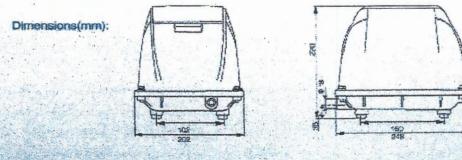
#### Specifications

Model		EL-60	EL-80-15	EL-80-17	EL-100			
Voltage	ŧ		11	0/115				
Frequency	H		5	(+ 60				
Rated pressure	psi (sPa	OID	(4.7)	2. 22 (16.7)				
Rated air flow	LIS	62/61	80.180	85/95	195/115			
Amperage	Amp.	1.6	2.6	1.8	5.1			
Bore diameter	2200		0D:16 [D:1]					
Net weight	1bs. (kg)	18.7 (8.5)						
Accessory			L-ja:	iat hese				

Performance have ± 10% deviation

#### Performance Curve:





# PROPLUS"

The **PROPLUS**<sup>TM</sup> adjustable arc and full-circle gear driven rotor comes standard with nine numerically coded interchangeable nozzles. Excellent nozzle performance delivers an exceptional fall out pattern. In independent testing by C.I.T., the **PROPLUS**<sup>TM</sup> delivered up to 90% uniform coverage.

Also Available: 12" High Pop, Shrub Head and Reclaimed Water models.

Tough, proven and advanced, the **PROPLUS™** is the leader in it's class. Set it and forget it. Arc Memory Clutch returns the rotor to its preset position. Technology works for you.

#### MODELS 11003

11003-HP 11003-SH Pro*Plus* Pro*Plus* 12" High Pop - -Pro*Plus* Shrub Head

OTHER OPTIONS: ADD TO PART NUMBER

-CV -LA -NN

-RCW

Check Valve Low Angle Nozzle No Nozzle Pro*Plus* for Reclaimed Water w/Low Angle Nozzl

#### EASY ARC SETTING Arc Selection 40° to Continuous 360° Adjust From Left Start



11003	-RCW	
- Model Nu	mber	Description



K-Rain Manufacturing Corp. 1640 Australian Avenue Riviera Beach, FL 33404 USA +1 561 844-1002 FAX: +1 561 842-9493

1.800,735.7246 | www.krain.com

# VOID

- Inlet: 3/4" Threaded NPT
- Arc Adjustment Range: 40° to Continuous 360°
- ► Flow Range: .5 10.0 GPM
- Pressure Rating: 20 70 PSI
- Precipitation Rate: .06 to .50 Inches Per Hour (Depending on Spacing and Nozzle Used)
- Overall Height (Popped Down): 7 1/2" / 17" for High Pop
- Recommended Spacing: 28' to 44'
- Radius: 22' to 50'
- Nozzle Trajectory: 26°
- Low Angle Nozzle Trajectory: 12°
- Standard and Low Angle Nozzle: included
- ► Riser Height: 5"

# PERFORMANCE DATA

NOZZLES	PESSUPE	RAGIOS FL	FLOL
#0.5	30 40	28' 29'	.5
	50 60	29' 30'	.7
#0.75	30 40	29' 30'	.7
	50 60	30' 31' 32'	.8 .9 1.0
21	80	32'	1.3
ID	40 50	33' 34'	1.5 1.6
	50 30	35'	1.8
₩Z.	40	40' 42'	2.5
	50 60	42' 43'	3.0 3.3
#2.5 PRE-INSTALLED	30 40	38' 39'	2.5
	50 60	40' 41'	3.2 3.5
#3	30 40	38' 39'	3.6
	50 60	41' 42'	4.6
#4	30	43'	4.4
	40	44° 46'	5.1
	60	49'	5.9
#6	40 50	45' 46'	5.9 6.0
	60 70	48' 49'	6.3 6.7
#8	40 50	42' 45'	8.0 8.5
	60 70	49' 50'	9.5 10.0

	METRIC					
	NOZ7LES	PRES	SURE	RADIUS	FLC	W TAT TH
	#0.5	208 275 345 413	2.0 3.0 3.5 4.0	8.5 8.8 8.8 9.1	1.89 2.27 2.65 3.03	.11 .14 .16 .18
	#0.75	206 275 345 413	2.0 3.0 3.5 4.0	8.8 9.1 9.4 9.8	2.65 3.03 3.41 3.79	.16 .18 .20 .23
The second se	#1	206 275 345 413	2.0 3.0 3.5 4.0	9.8 10.1 10.4 10.7	4.92 5.68 6.05 6.81	.30 .34 .36 .41
and the second se	#2	206 275 345 413	2.0 3.0 3.5 4.0	11.3 12.2 12.8 13.1	9.08 9.46 11.35 12.49	.54 .56 .68 .75
No. of Concession, Name	<b>#2.5</b> Pre-Installed	206 275 345 413	2.04 2.72 3.40 4.08	11.6 11.9 12.2 12.5	9.46 10.60 12.11 13.25	.57 .64 .73 .79
A DESCRIPTION OF TAXABLE PARTY.	#3	206 275 345 413	2.0 3.0 3.5 4.0	11.6 11.9 12.5 12.8	13.63 15.89 17.41 18.92	.81 .95 1.04 1.13
	#4	206 275 345 413	2.0 3.0 3.5 4.0	13.1 13.4 14.0 14.9	16.65 19.30 21.19 22.33	.99 1.15 1.27 1.33
	#6	206 275 345 413	3.0 3.5 4.0 5.0	13.7 14.0 14.6 14.9	22.33 22.71 23.85 25.35	1.33 1.36 1.43 1.52
	#8	206 275 345 413	3.0 3.5 4.0 5.0	12.8 13.7 14.8 15.3	30.28 32,12 35.95 37.85	1.81 1.92 2.15 2.27

NOZZLES	PRESSORE	RADIUS FI	FLOW
#1	30	22'	1.2
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3.4
	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0

70

and the	METRIC					ALL A
	NOZZLES	PRES	SURE	RADIUS	FLU L'M	W OBTH
The supervised statement	#1	207 275 344 413	2.04 2.72 3.40 4.08	6.71 7.32 7.92 8.53	4.54 6.43 6.80 7.56	.27 .39 .41 .46
The support of the su	#3	207 275 344 413	2.04 2.72 3.40 4.08	9.75 10.67	11.34 11.72 13.23 14.36	
A CONTRACTOR OF A CONTRACTOR O	#4	207 275 344 413	2.04 2.72 3.40 4.08	10.36	12.85 14.74 16.63 17.77	
States of the second second	#6	275 344 413 482	2.72 3.40 4.08 4.76	12.19	24.57 27.59 30.24 32.51	1.48 1.76 1.82 1.96

Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with nozzle retention screw.

8.6

44

© K-Rain Manufacturing Corporation AN ISO 9001:2000 CERTIFIED COMPANY

L=10011



VOID

#### The ProPlus<sup>™</sup> is packed with features that ensure reliability, saving the installer time, money and needless frustration.

PRO*PLUS* 

- Revolutionary Patented Easy Arc Set Simplified arc set allows for wet or dry adjustment in seconds.
- > 5" Riser Perfect for grasses with thick thatch.
- > 3/4" Inlet-Replaces all standard rotors.
- 2N1 Adjustable or Continuous Rotation Provides a full range adjustment from 40° to a continuous full circle.
- Patented Arc Set Degree Markings Clearly indicates the current watering pattern and simplifies arc set adjustment.
- Arc Memory Clutch Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turret is forced past its stop.
- Time Proven Patented Reversing Mechanism Assures continuous reverse and return...over a 20 year history.
- Ratcheting Riser Allows for easy adjustment of your left starting position with a simple turn of the riser.
- Rubber Cover Seals out dirt and increases product durability.
- Wide Selection of Nozzles Including standard and low angle, provides flexibility in system design.
- Optional Check Valve Prevents low head drainage.



IRRIGATION SOLUTIONS WORLDWIDE<sup>TT</sup>

## Ritzen, Brenda

From:	Ritzen, Brenda
Sent:	Tuesday, October 22, 2019 1:34 PM
То:	'timpickettusa@yahoo.com'
Cc:	'hoyt@gvtc.com'
Subject:	Permit 109869
Attachments:	Page from 109869.pdf

Re: Tim Pickett & Lori Smithey Cypress Lake Gardens High Country Section Lot 2 Block 108 Application for Permit for Authorization to Construct an On-Site Sewage Facility

Dear Property Owner and Agent,

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

The legal description of the property on the Affidavit to the Public submitted is incomplete/incorrect (see attached). A correction Affidavit must be completed, re-filed at the Comal County Clerk's Office, and a copy of the correction Affidavit submitted to our office.

2. 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





201906036311 10/10/2019 10:09:42 AM 1/1

the Public

THE COUNTY OF STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

Before me, the undersigned authority, on this day personally appeared <u>/im\_Tickeff</u> who, after being, by me, duly sworn, upon oath states that he/she is the owner of record of that certain tract or parcel of land lying and being situated in <u>COMMI</u> County, Texas and being more particularly described as follows:

Legal Description of property is as follows:

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property.

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

This OSSF must be covered by a continuous solution of an aeropic for the first two years. After the initial two-year service policy, the owner of an aeropic treatment system for a single-family residence shall either obtain a maintenance contract within 30 days or maintain the system personally.

Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF may be obtained from (102, Black 102, Cypress bake GARdens High country section)

Signed by my/our hand(s) on this \_ @ Day of 10

Signature T~ Print Name Till T

Y Commission Expires:

; LKO

Texas

Koepp, County Clerk

Bobbie Keepp

State of

Filed and Recorded

906036311

cial Public Records

10

adels

Sworn to and subscribed to before Notary Public, in and for the state of Texas and

ARIELL CARRIZALES Notary Public, State of Texas

Ny Comm. Exp. 09-14-2023 ID No. 13036552-1

0000000000000

WITNESS MY HAND AND OFFICIAL SEAL THIS THE // DAY OF

GF-180439

#### OF#180439

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

## WARRANTY DEED

Date: January 4, 2019

Grantor: KAL Services Unlimited, LLC

Grantor's Mailing Address (including county):

1051 S. MT. JULIET RD STE 533 MT JULIET TN 37132 WILSON County

Grantee: Timothy Pickett and Lori S. Smithey

Grantee's Mailing Address (including county):

30540 Huy 116 # 115-280 Doring 101000, 7, 75070

Consideration:

For the sum of Ten and No/100 Dollars (\$10.00) and other valuable consideration to the undersigned paid by the Grantee herein named, the receipt and sufficiency of which are hereby acknowledged.

Property (including any improvements):

Lot Two (2), Block One Hundred and Eight (108), Cypress Lake Gardens Subdivision, High Country Section, according to the map or plat thereof recorded in Volume 3, Page 27, of the Deed and Plat Records of Comal County, Texas.

Reservations from and Exceptions to Conveyance and Warranty:

Easements, rights-of-way, and prescriptive rights of record; all presently recorded restrictions, reservations, covenants, conditions, oil and gas leases, mineral soverances, and other instruments, other than liens and conveyances, that affect the property; rights of adjoining owners in any walls and fences situated on a common

boundary; any discrepancies, conflicts, or shortages in area or boundary lines, any POOR QUALITY encroachments or overlapping of improvements; all rights, obligations, and other matters emanating from and existing by reason of the creation, establishment, maintenance, and operation of any applicable governmental district, agency, authority, etc. taxes for current year, the payment of which Grantee assumes.

> Grantor for the consideration and subject to the reservations from and exceptions to Grantor for the consideration and subject to the reservations from and exceptions to conveyance and warranty, grants, sails, and conveys to Grantee the property, logether with all and singular the rights and appartenances thereto in any wise belonging, to have and hold it to Grantee, Grantce's heirs, executors, administrators, successors, or assigns forever. Grantor hereby binds Grantor and Grantor's heirs, executors administrators, and successors to warrant and forever defend all and singular the property to Grantee and Grantee's heirs, executors, administrators, successors, and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to warranty.

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

EXECUTED this 47 H day of January, 2019.

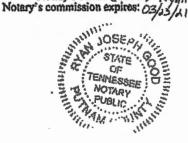
KAL Services Unlimited, LLC Vame Title: MEMBER

STATE OF Tennessee COUNTY OF Putnam

day of January, 2019. by of KAL Services This instrument was acknowledged before me on the IMEN MARita Keith Member Unlimited, LLC, a on behalf of said Member (DM Dan ) Notary & Notary & Name (printed): Ryan Jeseph Good

AFTER RECORDING RETURN TO;

Texas Lone Star Title, LLC 2700 S. Fort Hood Street, Suite E Killeen, Texas 76542



**Filed and Recorded Official Public Records** Bobbie Koepp, County Clerk **Comal County, Texas** 02/06/2019 12:43:20 PM LAURA 2 Pages(s) 201906004314



## COUNTRYSIDE CONSTRUCTION, INC. 300 CHAPMAN PARKWAY CANYON LAKE, IX 78133

Fhone: 830-899-2615 fax: 830-899-6662

## **TESTING AND REPORTING RECORD**

#### This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: MARCH 22,2020 Installed: 11/22/2019 Service Expires:11/22/2021

		PHYSICAL ADDRESS: 1761 CYPRESS GARDENS BLVD SPRING BRANCH, TX 78070				
TELEPHONE: ALT. PHONE:	512-662-2321	LOT: LT 2,	PERMIT# COUNTY :	109869 CCIMAL		
SUBDIVISION:	CYPRESS LAKE GARDENS	MFG: CLR STRM 600	SN: MAPSCO:	19080109 N/A		

NOTES: TYPE OF SYSTEM: SPRAY

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or
Aerators SCFM/Compressors PSI Record Pressure Reading	3051		Needed repairs to system (list all components replaced): <u>Cleaned filter on Compressor</u>
Filters	-		
Irrigation Pumps	-		Checked Chlorine, Checked pump
Recirculation Pumps	NIA		
Disinfection Device	/		floats + Sprinklers, Set finner.
Chlorine Supply	1		•
Electrical Circuits	1		Adjusted Spray time to gooff
Distribution System	1		
Sprayfield Vegetation	1		at 1-same
Back Flush Drip Field, if applicable	NA		
Other as Noted			SYSTEM OPERATING AS DESIGNED? Y/N
Access Posts are Secure	d		NO

3. Tests required and results:

	Required		Results	Test	
	Yes	No	mg/l mpn/100mi or Trace	Method	
BOD (Grab)					
TSS (Grab)		1	Thav	Grab	
Cl(Grab)	/		1.0	000	
Fecal Coliform					

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Kulu

Date of completion:	4/14/20	Start,Job 7	lime:	12:32	Stop Job '	lime:	12:43
Maintenance Provider	: WRUPU	1 Prepris	e.				

# COUNTRYSIDE CONSTRUCTION INC. 300 CHAPMAN PARKWAY CANYON LAKE, DX 78133

Phone: 830-899-2615 Fax: 830-899-6662

# IESTING AND REPORTING RECORD

This esting and Reporting Fecori shall be completed, again and dated are each trajection

Inspection Date: JULY	22 2020 Int +	alles: 11 22'2	019 <sup>s</sup> er	The Rpi	e: 11/22/20	21	
TIM PICKETT 170				HYPICAL ADDEF93 761 CYPRESS GARDENS BLVD PRING BRANCH, TY 78070			
TELEFRONE: 512-661- ALT01.5	/321		LT	÷.	SERMIT#	109869 COMAL	
SUBDICIBILY- CYPRESS	LAKE CAFDENS	I - CLP	STRM F	00		19520109 //A	
NITES: Type of system: spray							
Inspected Item:	Operational	Inoperative					
Aeratore 20FM Corp.essore FSI				es rebire	iscen .		
Recars Pressure	3psi	· ·		1 11	1		
Files	JPSI		(14	anco fill	ter on Co.	mpressor.	
Irrigation Fumps			(I.J	1 11	1 1	ked pump.	
Recisculation Pumps	NA		CALCE	ca chio	any, Cher	no pump.	
Disinfection Device	N/R		N	4 . 1	rinklers.	11	
Chlorine Supply			Floa	TS 7 54	MARCAS,	20+	
Electrical Circuits			11.				
and the second s			tim	er.			
Distribution System							
Sprayfield Vegevation Back Flush Drip Field.							
i if applicable	NA						
Other as Noted		1	SYST	EM OPERATI	NG AS DESIGN	ED? Y/N	
Arcess Posts are Secured			2	(a)		112 · · · · · · · · · · · · · · · · · ·	
3. Tests required and re	the second s						
	Required	t ng i nph 15		L .est Wethod			
	ies its	ng npi 10 Trate	ಕರ್ಯ ಹಾಚಾ	ietaba ,			
EOD (Grab)		en e					
mee Peab	1	CLEAN		Grab			
Cl(Grab) Fecal Coliforn	1	110		010			
recal Colligen	na na arr frata agas maasaa						
Copies of this report have		to the followin	ig: CC	DMAL count	y / homeosine:	<u> </u>	
Mainteranie Tethnician:	Kylc				1 11		
		7 - 18 Time:		Stog 1:	s The.		
Maintenance Provider	Valkach	game					

#### COUNTRYSIDE CONSTRUCTION, INC. 300 CHAPMAN PARKWAY CANYON LAKE, DX 78133

Phone: 830-899-2615 Fax: 830-899-6662

#### TESTING AND REPORTING RECORD

This Testing and Reporting Fecord shall be completed, agreed and dated after each respection

1 Inspection Date: NOVEMBER 22,2020 Installed: 11/22/2019 Service Expires:11/22/2021

TIM PICKETT 1761 CYPRESS SPRING BRANC	GARDENS BLVD	PHYSICAL ADDRESS: 1761 CYPRESS GARDENS BLVD SPRING BRANCH, TX 78070				
TELEPHONE: ALT. PHONE:	512-662-2321	LOT: LT 2,	COUNTY :	109869 COMAL 19080109		
SUBDIVISION:	CYPRESS LAKE GARDENS	MFG CLR STRM 600	MAPSCO:	N/A		

NOTE3: TYPE OF SYSTEM: SPRAY

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or
Aerators			Needed repairs to system (list all
SCFM/Compressors PSI			components replaced).
(Record Pressure	1		
Reading)	3051		Cleaned filter on Compressor.
Filters	1		
Irrigation Pumps	/	and the second se	Checked Chlome Checked pump
Recirculation Pumps	NIA		
Disinfection Device	1		Alasts + Sprinklars, Set Linux.
Chlorine Supply	1		
Electrical Circuits	1		
Distribution System	1		
Sprayfield Vegetation	1		
Back Flush Drip Field,	NIA		
if applicable	M		
Other as Noted			SYSTEM OPERATING AS DESIGNED? Y/N
Access Posts are Secure	<u>d</u>		No No
An and an other states and the spectra states for the spectrum of the spectrum			

3. Tests required and results:

	Required		Results	Test	
	Yes	No	mg/l mpn/106mi cr Trace	Method	
BOD (Grab)					
T33 (Grab)		/	Clear	Grab	
Cl (Grab)	/		1.0	OTO	
Fecal Coliform					

Copies of this report have been forwarded to the following: COMAL county / homepwner.

Maintenance Technician: Kult

Date of comp	letion: 12.4.2	o Start, Jo.	o Time:	2:10	Stop Jo	b Time:	2:23
Maintenance	Provider: WC	Ukuclup	NM				

## COUNTRYSIDE CONSTRUCTION, INC. 300 CHAPMAN PARKWAY CANYON LAKE, TX 78133

Phone: 830-899-2615 Fax: 830-899-5662

#### **IESTING AND REPORTING RECORD**

This Testing and Reporting Record shall be completed, agned and dated after each repeation.

1. Inspection Date: MARCH 22,2021 Installed: 11/22/2019 Service Expires:11/22/2021

BILLING ADDRESS: TIM PICKETT 1761 CYPRESS GARDENS SPRING BRANCH, TX 78			PHYSICAL ADDRESS: 1761 CYPRESS GJ SPRING BRANCH,		
TELEPHONE: 512-662- ALT. PHONE:	2321		LOT: LT 2,	PERMIT#: COUNTY: SN:	109869 COMAL 19080109
SUBDIVISION: CYPRESS	LAKE GARDENS	MFG: CL	R STRM 600	MAPSCO:	N/A
NOTES: TYPE OF BYBTEM: SPRAY					
Inspected Item:	Operational	Inoperative		aken or Repair	
Aerators				ra to system :	list all
3CFM/Compressors PSI			components r	ebtsced).	
(Record Pressure				1.1	
Reading,	3psi		Cleanco.	Gilter on C	OMDIESSON
Filters	-				
Irrigation Pumps	1		Chicked C)	lovine Chu	ompressor kcd psmp 5. set
Recirculation Fumps	NIA				/
Disinfection Device	1		floats apie	Sprinklers	5, 5et
Chlorine Supply	1			/	
Electrical Circuite	/		timer.		
Distribution System	1				hilde dalari fiyal — Miriye di Mida danada a <u>ngen yan</u> nega me
Sprayfield Vegetation	1				
Back Flush Drip Field, if applicable	NIA				and a first first of the second s
Other as Noted			SYSTEM OPERA	TING AS DESIGN	ED? Y/N
Access Fasts are Secured			(Ieb)		No

3. Tests required and results:

	Required		Results	Test	
	Yes	No	mg/1 mpn/100mi or Trace	Method	
BOD (Grab)				1	
T33 (Grab)		1	CLAY	Grab	
Cl (Grab)	1		1.0	00	
Fecal Coliform					

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: 16/4			13	
Date of completion: 4:20.21 Start Job Time:	Stop	JeŁ	Time.	
Maintenance Provider: Walks Chyper				

COUNTRYSIDE CONSTRUCTION, INC. 300 CHAPMAN PARKWAY CANYON LAKE, IX 78133

## TESTING AND REPORTING RECORD

## This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: JULY 22,2021 Installed: 11/22/2019 Service Expires:11/22/2021

		PHYSICAL ADDRESS: 1761 CYPRESS GARDENS BLVD SPRING BRANCH, TX 78070			
TELEPHONE: ALT. PHONE:	512-662-2321	LOT: LT 2,	PERMIT# : COUNTY : SN :	109869 COMAL 19080109	
SUBDIVISION:	CYPRESS LAKE GARDENS	MFG: CLR STRM 600	MAPSCO:	N/A	

NOTES: TYPE OF SYSTEM: SPRAY

Inspected Item:	Operational	Inoperativa	2. Action taken or Repairs or
Aerators			Needed repairs to system (list all
3CFM/Compressors PSI			components replaced):
(Record Pressure			
Reading)	3psi		Cleaned filler on Compressor.
Filters			
Irrigation Pumps	-		Checked chlorine. Checked pump
Recirculation Pumps	NIA		
Disinfection Device	1		floats and Sprinklers. Set find.
Chlorine Supply	/		
Electrical Circuits			
Distribution System			
Sprayfield Vegetation			
Back Flush Drip Field,	alla	]	
if applicable	NA		
Other is Noted			SYSTEM OPERATING AS DESIGNED? Y/N
Access Posts are Secure	<u>-</u>		Tes No

3. Tests required and results:

	Requ	ired	Results	Test Method	
	Yes	No	mg/l mpn/100mi or Trace		
BOD (Grab)					
TSS (Grab)		/	Clear	Grab	
Cl(Grab)	/		110	AT6	
Fecal Coliform					

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: \_Ka

13

		25-21 Star		11:23	Stop Job	Time:	11:38
Maintenance	Provider: _	Walkac	hepnin				

·----

COUNTRYSIDE CONSTRUCTION, INC. 300 CHAPMAN PARKWAY CANYON LAKE, TX 78133 Phone: 830-899-2615 Fax: 830-899-6662

#### TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1.Inspection Date: NOVEMBER 22,2021 Installed: 11/22/2019 Service Expires:11/22/2021

BILLING ADDRESS: TIM PICKETT 1761 CYPRESS GARDENS BLVD SPRING BRANCH, TX 78070	PHYSICAL ADDRESS: 1761 CYPRESS GARDE SPRING BRANCH, TX	
TELEPHONE: 512-662-2321 ALT. PHONE:		PERMIT#: 109869 COUNTY: COMAL N: 19080109
SUBDIVISION: CYPRESS LAKE GARDENS	MFG: CLR STRM 600 M	TAPSCO: N/A

NOTES: TYPE OF SYSTEM: SPRAY

Inspected Item:	Operational	Inoperative	<ol> <li>Action taken or Repairs or</li> <li>Needed repairs to system (list all</li> </ol>
Aerators			components replaced):
SCFM/Compressors PSI			
(Record Pressure			Classed Call . Compared
Reading)	3051	1	Cleaned Filter on Compressor.
Filters	1		
Irrigation Pumps	-		Checked Childrine. Checked pump
Recirculation Pumps	NIA		
Disinfection Device	1		Floats + Sprinklers, Sct time.
Chlorine Supply	1		
Electrical Circuits			
Distribution System	1		
Sprayfield Vegetation	1		
Back Flush Drip Field,	NIA		
if applicable	I TOTA		
Other as Noted			SYSTEM OPERATING AS DESIGNED? Y/N
Access Posts are Secured			No

3. Tests required and results:

	Requ	uired	Results	Test
	Yes	No	mg/l mpn/l00mi or Trace	Method
BOD(Grab)				
TSS (Grab)		1	Clear	Grab
Cl(Grab)	1		1,0	070
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician:

Date of completion: <u>1:27:22</u> Start Job Time: \_\_\_\_\_ Stop Job Time: Maintenance Provider: <u>WalkyChupmn</u>\_\_\_\_



# WASTEWATER TREATMENT SYSTEM MAINTENANCE INSPECTION

Customer			Permit Number	
Tim Pickett			109869	
Site Address			Agency	
1761 Cypress Gardens Boulevard, Spring Branch, TX 78070			Comal County	
Email		Phone	County	
timpickettusa@gmail.com		512-662-2321	Comal	
System Details				
Treatment: Surface Application /				
Contract Period	Service Plan	Inspection Number	Date	
2024-05-20 to 2025-05-20	3 Inspections Per Year	3 of 3	February 10, 2025	

INSPECTION			
Equipment Inspection			
Control Panel	Disinfection Device		
Operational	Operational		
Irrigation Pump	Spray Field Vegetation		
Operational	Operational		
Aerator / Air Compressor	Sprinkler / Drip Backwash		
Operational	Operational		
Floats / Sensors			
Operational			
Tests Results			
Air Compressor PSI	Test Method		
2.12	Grab		
Air Compressor CFM	Color		
	Good		
Chlorine Residual	Odor		
1.1	Good		
Sludge Levels			
Tank 1 Tank 2	Tank 3 Tank 4 Scum		
Buried Behind cone	0" Buried		

Other Observations			
Cleaned Air Filter?	✓	Inspection Port/Plug Secured?	✓
System Flushed?		Repairs Made?	
Drip Filter Cleaned?		Pump Filter Cleaned?	
Tank Lids Secured?	$\checkmark$	Pumping Required?	
Additional Comments			

Reset timer. System operating properly. No other issues found.

Bryan ThompsonLuna Environmental / Logan LeppoInspector NameMaintenance Provider NameFebruary 10, 2025License # MP0002494Inspection DateMaintenance Provider Signature