

Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:

03/08/2019

Permit Number:

108521

Location Description:

1424 COTTONWOOD RD

FISCHER, TX 78623

Subdivision:

Rancho del Lago

Unit:

11

Lot:

123

Block:

Acreage:

Type of System:

Aerobic

Surface Irrigation

Issued to:

Cheryl Rossi

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

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

Alterations to this permit including, but not limited to:

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

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

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

This license to operate is valid for an indefinite period. The holder may transfer it to a succeeding owner, provided the facility has not been remodeled and is functioning properly.

Licensing Authority

Comal County Environmental Health

Shelly k Helnke 0800 31545

NMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEALTH COORDINATOR 559

Installer Name: DAVID BO	RKE	<u></u>	OSSF Installer #:_	080	008	287		
1st Inspection Date: 2.20	_	2nd Inspection Da			Inspectio			
Inspector Name: S. Helm		Inspector Name:			Inspecto	r Name:		
Permit#: 108521			Address: 1424 U	a Hen i	HARR	Rd -R	ancho)	No Dag
No. Description	Anwser	Citations		tes	~~~	1st insp.	2nd Insp.	3rd Insp.
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				2.26.		
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards 2		285.91(10) 285.30(b)(4) 285.31(d)	¥		-			
SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	/	285.32(a)(1)						
SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	/	285.32(a)(3)						
SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	✓	285.32(a)(5)						
PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements PRETREATMENT Grease		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)(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) 285.32(b)(1)(E)(iii)(II) 285.32(b)(1)(E)(iii)(II) 285.32(b)(1)(E)(iii)(II) 285.32(b)(1)(E)(iii)(II)						
Interceptors if required for commercial		285.34(d)						

2.26.19-SH

tank set. level

spendional-ready for sprayhead

spendional-ready for sprayhead

sprayhead

3/8/19 - SH

Need revision for before

type of tank

The servision received

covered

type of tank

The servision received

sprayhead

sprayhead

type of tank

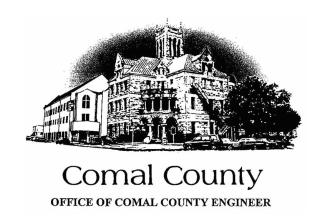
No.		Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements	Anwser	285.32(b)(1)(E) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(ii)(ii) 285.32(b)(1)(E)(ii)(i) 285.32(b)(1)(E)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(B)		226/9		ara insp.
8	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	✓	285.32(b)(1)(A) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
9	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped	√	285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions	√	285.38(d) 285.38(e)				
12	5EPTIC TANK Tank Volume Installed	✓					
13	PUMP TANK Volume Installed	✓	······································				
14	AEROBIC TREATMENT UNIT Size Installed			600			
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	/	,	Solar au instead of Host			
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation		285.33(a)(1)				10 Aug 1
			285.33(a)(3)				
			285.33(a)(4)				
9			285.33(a)(2)				
	DISPOSAL SYSTEM Soil		285.33(d)(4)				
0	Substitution						
	DISPOSAL SYSTEM Pumped	72	285.33(a)(4)			7	28
	Effluent		285.33(a)(3)				
1		7 A 4	285,33(a)(1)				- ,:
	DISPOSAL SYSTEM Gravelless		285.33(a)(3)				
	Pipe		285.33(a)(2)		Ì		
			285.33(a)(4)				İ
22			285.33(a)(1)				
	DISPOSAL SYSTEM Mound		285.33(a)(3)				
		X-	285.33(a)(1)				1,41
			285.33(a)(2)			.*	
23		. 34	285.33(a)(4)				
	DISPOSAL SYSTEM Other		285.33(d)(6)				
	(describe) (Approved Design)		285.33(c)(4)				
4							
	DRAINFIELD Absorptive Drainline	1 1 5					
	3" PVC 라 그림을	. 5 July 1					1
25	or 4" PVC						
26	DRAINFIELD Area Installed		-				
	DRAINFIELD Level to within 1 inch	1.5				1	1
	per 25 feet and within 3 Inches		**************************************				
	over entire excavation		285.33(b)(1)(A)(v)				
27			. *	:			
	DRAINFIELD Excavation Width						1 3/3
	DRAINFIELD Excavation Depth			***			
	DRAINFIELD Excavation	L. Ja					
	Separation DRAINFIELD Depth of Porous Media					1	
	DRAINFIELD Type of Porous	1.3					**, *
	Media			•		1 .	# X
						1	over 3 s
		ins kr					
28	DRAINFIELD Pipe and Gravel -	- 35				+	
	Geotextile Fabric in Place		285.33(b)(1)(E)				
29	DRAINFIELD Leaching Chambers	,				-	-
	DRAINFIELD Cearning Chambers DRAINFIELD Chambers - Open						
	End Plates w/Splash Plate,				(
	Inspection Port & Closed End		10F 22(a)/2)				
	Plates in Place (per		285.33(c)(2)				
	manufacturers spec.)						
20	** £						
30	LOW PRESSURE DISPOSAL					-	+
	SYSTEM Adequate Trench Length						
	& Width, and Adequate		205 22/4//4//07/3				
	Separation Distance between		285.33(d)(1)(C)(i)				
	Trenches						
31							L

No		Anwser	Citations	Notes	1st insp.	2nd Insp.	3rd Insp.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelfing EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B) 285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
33	AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.	/	285.32(c)(1)		2.26.19		
33	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against						
34	unauthorized intrusions AEROBIC TREATMENT UNIT Chlorinator Properly Installed		**************************************				
35	with Chlorine Tablets in Place. PUMP TANK is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump PUMP TANK Inspection/Clean						
37	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 PUMP TANK Secondary restraint system provided						

	PUMP TANK Electrical			
	Connections in Approved		221 19	
39	Junction Boxes / Wiring Buried		2.20.1V	

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)(iii) 285.33(d)(2)(G)(iii)(I)			2.26.19		
	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	V X	285.33(d)(2)(G)(i) 285.33(d)(2)(A) 285.33(d)(2)(F)	Covered			3/8/19	
-	APPLICATION AREA Area Installed PUMP TANK Meets Minimum	7	:	2@ 3750	2.2			* 1. * * * * * * * * * * * * * * * * * *
43	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: 108521

Issued This Date: 12/26/2018

This permit is hereby given to: Cheryl Rossi

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

1424 COTTONWOOD RD FISCHER, TX 78623

Subdivision: Rancho del Lago

Unit: 11

Lot: 123

Block:

Acreage:

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded

	items Date Received Initial
	Permit Number
nstructions:	
lace a check mark next to all items that apply. For items that do application Checklist must accompany the completed application.	not apply, place "N/A". This OSSF Development
OSSF Permit	
Completed Application for Permit for Authorization to Operate	Construct an On-Site Sewage Facility and License to
Site/Soil Evaluation Completed by a Certified Site Ev	valuator or a Professional Engineer
Planning Materials of the OSSF as Required by the shall consist of a scaled design and all system species	TCEQ Rules for OSSF Chapter 285. Planning Materials ifications.
Required Permit Fee	DEC 1 9 2018
Copy of Recorded Deed	COUNTY ENGINEER
Surface Application/Aerobic Treatment System	
Recorded Certification of OSSF Requiring Main	ntenance/Affidavit to the Public
Signed Maintenance Contract with Effective Da	ate as Issuance of License to Operate
affirm that I have provided all information required for my OS onstitutes a completed OSSF Development Application.	SF Development Application and that this application
Signature of Applicant	Date
COMPLETE APPLICATION	INCOMPLETE APPLICATION
Check No Receipt No	(Missing Items Circled, Application Refused)

Revised: January 2015

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

Owner Name Cheryl Rossi	Date 12/12/18			Permit #	8521
City, State, Zip Paso, TX 79930	Owner Name	Cheryl Rossi	Agent Name	John J. Haag, P.E.	
Phone # 915-401-9499	Mailing Address	3009 Silver Avenue	Agent Address	15831 Secret Trail	
Email cpcma@yahoo.com	City, State, Zip	El Paso, TX 79930	City, State, Zip	San Antonio, Tx. 78247	
All correspondence should be sent to:	Phone #	915-401-9499	Phone #	210-705-4268	
Subdivision Name Rancho del Lago	Email	cpcrna@yahoo.com	Email	jhaag@satx.rr.com	
Acreage/Legal 0.574 Street Name/Address 1424 Cottonwood Dr.	All corres	spondence should be sent to: Owner Age	ent 🗵 Both	Method: Mail	⊠ Email
Street Name/Address	Subdivision Nar	ne Rancho del Lago	Unit 11	Lot 123	Block
Type of Development: Single Family Residential Type of Construction (House, Mobile, RV, Etc.) House Number of Bedrooms 1 DEC 1 9 2018 Indicate Sq Ft of Living Area 1650 COUNTY ENGINEER COUNTY	Acreage/Legal	0.574			
Single Family Residential Type of Construction (House, Mobile, RV, Etc.) House DEC 1 9 2018	Street Name/Ad	Idress 1424 Cottonwood Dr.	City Fise	cher	Zip <u>78623</u>
Type of Construction (House, Mobile, RV, Etc.) House Number of Bedrooms 3 DEC 1 9 2018 Indicate Sq Ft of Living Area 1650 COUNTY ENGINEER COUNTY ENGINEER COUNTY ENGINEER COUNTY ENGINEER COUNTY Engineer (Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area) Type of Facility Offices, Factories, Churches, Schools, Parks, Etc Indicate Number Of Occupants Restaurants, Lounges, Theaters - Indicate Number of Seats Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds Travel Trailer/RV Parks - Indicate Number of Spaces Miscellaneous Estimated Cost of Construction: \$205,000 (Structure Only) Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement? Yes No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement) Source of Water Dublic 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 not contain any false information and does not conceal any material facts. - The completed application and inspection of private sweage facilities. - I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Dafrage Prevention Order.	Type of Develo	pment:			
Type of Construction (House, Mobile, RV, Etc.) House Number of Bedrooms 3 DEC 1 9 2018 Indicate Sq Ft of Living Area 1650 COUNTY ENGINEER C	Single Far	nily Residential		RE	CEIVED
Indicate Sq Ft of Living Area 1650	Type of Cor	nstruction (House, Mobile, RV, Etc.) House			
COUNTY ENGINEER Commercial or Institutional Facility (Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area) Type of Facility Offices, Factories, Churches, Schools, Parks, Etc Indicate Number Of Occupants Restaurants, Lounges, Theaters - Indicate Number of Seats Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds Travel Trailer/RV Parks - Indicate Number of Spaces Miscellaneous Estimated Cost of Construction: \$205,000 (Structure Only) Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement? Yes No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement) Source of Water Public Private Well Are Water Saving Devices Being Utilized Within the Residence? Yes No By signing this application, I certify that: - The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. - Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property 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 Administrator has performed the reviews required by the Cornal County Flood Damage Prevention Order.	Number of E	Bedrooms 3		DEC	1 9 2018
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Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement? Yes No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement) Source of Water Public Private Well Are Water Saving Devices Being Utilized Within the Residence? No By signing this application, I certify that: The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property 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 Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.					
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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 not contain any false information and does not conceal any material facts. - Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property 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 Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.	Is any portion	of the proposed OSSF located in the United State	es Army Corps of	Engineers (USACE) flows	ige easement?
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 not contain any false information and does not conceal any material facts. - Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property 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 Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.	☐ Yes 🔀	No (If yes, owner must provide approval from USACE for	proposed OSSF impr	overnents within the USACE flow	vage easement)
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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 Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.	- The completed a		not contain any fa	lse information and does not	conceal any material
by the Comal County Flood Damage Prevention Order.	site/soil evaluation	on and inspection of private sewage facilities			
			t until the Floodplai	n Administrator has performe	ed the reviews required
	-	7 / 1	address associated	with this permit application,	as applicable.
Signature of Owner Date Page 1 of 2	Signature of C	Dwner	Date	10	Page 1 of 2

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

Planning Materials & Site Evaluation as Required Completed By John J. Haag, P.E.	
System Description Proprietary aerobic treatment with surface spray disposal	
Size of Septic System Required Based on Planning Materials & Soil Evaluation	
Tank Size(s) (Gallons) 500 gpd min. Absorption/Application Area (Sq Ft) 3750	min.
Gallons Per Day (As Per TCEQ Table III) 240	
(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.)	
Is the property located over the Edwards Recharge Zone? ☐ Yes ☒ No	RECEIVED
(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))	DEC 1 9 2018
Is there an existing TCEQ approved WPAP for the property? Yes No (If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)	COUNTY ENGINEER
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Perbe issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)	
Is the property located over the Edwards Contributing Zone? ☒ Yes ☐ No	
Is there an existing TCEQ approval CZP for the property? Yes No	
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)	
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP?	Yes 🗵 No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permissued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)	nit to Construct will not be
Is this property within an incorporated city? Yes No	
If yes, indicate the city:	

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.

- I affirmatively gonsent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Designer Date

Page 2 of 2

STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

Ī

The Texas Health and Safety Code, Chapter 366 authorizes the TCEQ to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the TCEQ 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 TCEQ, under the authority of the TWC and the Texas Health and Safety Code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the TCEQ 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 TCEQ of the suitability of this OSSF, nor does it constitute any guarantee by the TCEQ that the appropriate OSSF was installed.

Π

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

Legal Description: Lot 123, Rancho del Lago, Phase XI

DEC 1 9 2018

This property is owned by: Cheryl Rossi

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

The owner will, upon any sale or transfer of the above-described property, request a transfer of the permit for the OSSF to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from Comal County.

WITNESS BY HAND(S) ON THIS S DAY OF

Cheryl Rossi., Owner

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 15HDAY OF DECEMBER. 2018.

Not My Print of Texts

DORA RIVAS
Notary ID # 128808478
My Commission Expires
November 23, 2019

Notary Public, State of Texas

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
12/19/2018 02:11:01 PM

TERRI 1 Page(s

Bobbie Koepp





the License to Drerate is issued.

	Cheryl Rossi ("Home Owner" Provider") Service Provider agrees to operate and maintain the He	loot Aerobic System located at
Ī	Lot 123, Rancho del Lago, Phase XI Permit #, for the period of two (2) years be	eginning and ending
	pursuant to the terms below:	RE
	This Agreement will provide for all required inspections, testing a	and service of your HOOT Aerobic Treatment System. Service
J	Provider and Home Owner agree to the following:	DEC 1
	1. Sep-jce Provider shall perform inspections a year/s	service calls (at least one every months), for a total of
		tment and servicing of the mechanical, electrical and other COUNTY includes inspecting the control panel, air purms, air filters, diffuser
	operation, and replacing or repairing any component not foun	morate in the man and a partial at hambel at trices, extract
	2. Such inspections shall include an effluent quality inspection co	onsisting of a visual check for color, turbidity, scum overflow and
1	examination for odors. A test for chlorine residual and pH will If any improper operation is observed by Service Provider, whi	ill be taken and reported as necessary. ich cannot be corrected at the time of the service visit, Home Owner
	will be notified immediately in writing of the conditions and	estimated date of correction.
4		0.1 mg/L in the pump tank for surface irrigation systems. This can
	by Service Provider, if the system needs chlorine tablets the S	ewater use, NOT SWIMMING POOL TABLETS. Upon inspection Service Provider will add them and charge the Home Owner.
4	5. In the event that the Home Owner fails in their responsibility to	add the chlorine tablets, it shall be considered a breach of this
		Hoot Homeowners Manual. Additionally, such failure may be Provider will contact the appropriate governmental authorities to
	report such violation.	36
-	Initials of Service Provider Initials of Ho. 6. Home Owner agrees to maintain a factory authorized service pr	omeowner of the system, as required by state law
•	applicable to aerobic systems. Service Provider agrees to mal	ke available, for purchase on an annual basis, a continuing service
4	policy to cover labor for normal inspection, maintenance and	
-	Service Provider agrees that within 48 hours of a request for se Provider listed below or their authorized agent. If there are a	
	remedied, the service provider will inform the Home Owner,	in writing, of the conditions and the estimated repair date.
8	 Any additional visits, inspections or sample collections required Agencies the State or any other regulatory agency in your jur 	d by specific Municipalities, Water/River Authorities, County
2	sludge build-up, for reasons other than due to warranted mechanic additional charges. By signing this Agreement, both Service Provisigning this Agreement, both the Service Provider and the Home Chambon Manual and the Service Provider has made a reasonal	rider and Homeowner agree to the terms contain herein. Further, By Owner swear that the Home Owner has received a copy of the
		tems, Inc. is not a party to this Agreement, and terms, obligations, or duties contained herein.
	HOME OWNER	SERVICE PROVIDER
	Cheryl Rossi	Dave Borker
	Name	Name of Aervice Company Representative
	3009 Silver Avenue	2449 Rocky Ridge WORD
	Address	Address an you hake IX 18133
	Address El Paso, TX 79930 City	Added
	Address El Paso, TX 79930 City () 915-401-9499	830,935 - 2750
	Address El Paso, TX 79930 City	830,935 - 2750
	Address El Paso, TX 79930 City () 915-401-9499	830,935 - 2750
	Address El Paso, TX 79930 City 915-401-9499 Phone Signature of Home Owner	830,935 - 2750 Phone Sauhu MP oovers S
	Address El Paso, TX 79930 City 915-401-9499 Phone Signature of Home Pouner THIS BOX MUST BE COMPLET	Address on you have TV 18133 Signature of Service Provider and License #. TED BY THE SERVICE PROVIDER
	Address El Paso, TX 79930 City 915-401-9499 Phone THIS BOX MUST BE COMPLET HOOT Model #Blower/Panel Serial #	Address anymhale TV 78133 Signature of Service Provider and License #.

15831 Secret Trails • San Antonio, Texas 78247 • Tel: (210) 705-4268 • Fax: (210) 855-8383 • Email: jhaag@satx.rr.com

December 19, 2018

Ms. Sandra Hernandez Comal County Office of Environmental Health 195 David Jonas Drive New Braunfels, Texas 78132-3760

RECEIVED

DEC 1 9 2018

RE:

Septic Setback Variance Request Lot 123, Rancho del Lago, Phase XI

COUNTY ENGINEER

Dear Sandra:

Due to the lack of available spray application area, it is necessary to have the setback from the property line to the edge of spray area at ten feet as required by TCEQ Chapter 385 rules Table X. I hereby request a variance to the twenty foot setback to the property line(s) as required by Comal County Order and an equivalent protection will be maintained by adding a battery backup to the timer clock to ensure sprayers only spray during the pre-dawn hours. In my professional opinion, this variance will not pose a threat to the environment or public health.

Sincerely,



Haag Engineering Consultants, Inc.

Firm No.: F-5789

ON-SITE SEWAGE FACILITY (OSSF) SITE EVALUATION FORM

1. OWNER	NFORMATI	ON			RECEIVED
		al Name: Cheryl Rossi			_
					DEC 1 9 2018
2. PROPER	TY INFORM	IATION			
City: Fischer			Zip Code: 78	623	COUNTY ENGINEER
Legal Descrip	tion:				OCONT ENGINEER
Lot: 123	Block:	Subdivision: Rancho del Lago		Sec:	Unit: 11
If not located	in subdivisio	n: Survey:			
		Abstract:		Recorded ((Vol/Pg):
3. SITE EV	ALUATION I	NFORMATION:			
Name of Site	Evaluator: J	ohn J. Haag		PE#: 90158	
Date Perform	ed: 11/12/18	}		Proposed Exc	cavation Depth: Surface

4. REQUIREMENTS:

- At least two soil evaluations must be performed on the site at opposite ends of the proposed disposal area. Locations of soil evaluations must be shown on the application site drawing or designer's site drawing.
- For subsurface disposal, soil evaluations must be performed to a depth of at least 2 feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

			Drainage		
Depth	Textural	Gravel	(Mottles/Water	Restrictive	Observations
(ft.)	Class	Analysis	Table)	Horizon	
	Rock	<30%	No	Yes	Limestone @ surface
	-				

ON-SITE SEWAGE FACILITY (OSSF) SITE EVALUATION FORM

Soil Profile Hole Number: 2						
Depth (ft.)	Textural Class	Gravel Analysis	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations	
0	Rock	<30%	No	Yes	Limestone @ surface	
1					RECEIVED	
3					DEC 1 9 2018	
4					COUNTY ENGINEER	
5						

5. FEATURES OF SITE AREA:

Presence of 100 year flood zone:		⊠ No
Presence of adjacent ponds, streams or water impoundments	☐ Yes	⊠ No
Existing or proposed water well in nearby area	\square Yes	⊠ No
Organized sewage available to lot or tract	\square Yes	⊠ No
Recharge features within 150 feet	\square Yes	oxtimes No (None observed)

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



11/12/18

Haag Engineering Consultants, Inc.

Firm: F-5789

Surface Disposal Residential

Aerobic With Surface Disposal

by Felix I. Bernal, P.E. (c) 2002 - 2013

SITE EVALUATION PERFORMED ON:

John J. Haag, P.E.

12-Nov-18 Date: 02/28/19 APPLICANT: Cheryl Rossi MAILING ADDRESS: CITY, ST, ZIP CONTRACTOR

8:18 am, Mar 07, 2019

REVISED

SITE ADDRESS: 1424 Cottonwood CITY, ST, ZIP Fischer, Texas 78623

LEGAL DESCRIPTION: Lot 123, Rancho del Lago 12

WATER SOURCE: Public

WATER GOORGE. TO	iblio									
2011 71/75		AT 01 0DE 0E	-450/		DEDDOOMS	0	Sq. Ft.	1650		
SOIL TYPE	3	AT SLOPE OF	<15%		BEDROOMS	3	GPD		GPD	
3444	0.000 (10.000)	V		Norma	ally Required	300	GPD	300	GFD	
	R SAVING DEVICES?	Υ	OALLONG DE	-D 00 FT	DED DAY					
Al	PPLICATION RATE =		GALLONS PE			000/	05	200	GPD	
	USAGE FLOW =	240	GALLONS PE			80%	OF	300	GPD	
	TIC TANK VOLUME =	750			PARTMENT TA					
RE	SERVE CAPACITY =	80			TER HIGH LE	VEL ALA		0.00	10050	
	AREA REQUIRED =	3,750	SQ. FT. OF A				OR		ACRES	
WITHOUT WATE	R SAVING DEVICES	4,688	SQ. FT. OF A	BSORPI	ION AREA		OR		ACRES	
	Use a	600	GPD Treatme			SA600	by	Solar	Aerobic	
	Nozzle #	PSI	(K-Rain Prof	Plus Low A	Angle Sprinkle	r Nozzle)				
	3	30	PSI WITH A	29	FOOT RADII	US AND 3	.0			
	GPM/ SPRIN	NKLER WITH A	TOTAL OF 4	.5 GPM F	OR THE SYS	TEM				
		AREA COVER	ED BY PROP	OSED SP	RINKLER HE	ADS				
LINEAR FEET	OF DISTRIBUTION =	128.0 FT. OF	1	INCH SCI	H-40 PURPLE	PIPE	150	C (HA	ZEN-WILLIA	(MS)
SPACE BETWEEN S	PRINKLER HEADS =	58		FT						
			2	SPRII	NKLERS _	FOR A DC	SE TIM	E OF	3 MINUTES	
WITH ANGLE	OF DISTRIBUTION =	360	ARE	A PER SI	PRINKLER =	2,642	sf			
OF ABSORPTION AREA										
SPRINKLERS	LENGTH OF PIPE	Dist. Angle	Flow GPM	Q GPM	Hf ft of head		Area			
2	70 FT	360	3	4.500	1.10		2642.0			
1	58 FT	180	1.5	1.500	0.12		1321.0			
0			0	0.000	0.00		0.0			
0			0	0.000	0.00		0.0			
0			0	0.000	0.00		0.0			
0			0	0.000	0.00		0.0			
0			0	0.000	0.00		0.0			
0			0	0.000	0.00		0.0			
0			0	0.000	0.00		0.0			
0			0	0.000	0.00		0.0			
SUM=	128 feet of pipe		4.500		1.22	ft of head	3963.0	sf	Provided	
			fitt	ings factor	1.20					
						ft of head				
			Hf fo	r Dist Line						
(Note: 0.4335= 62.424/144 fd	or water at 39.2°F)	30.00	psi divided by	y 0.4335 =		ft of head				
	,		II.	CONTROL OF		20 20 727				

pressure required for sprinkling

elevation difference head required for sprinkling -2.00 ft of head

70.67 ft of head

30.64 psi

GENERAL NOTES:

- NO VEHICULAR TRAFFIC IS ALLOWED ON ANY PORTION OF THE
- DISPOSAL SYSTEM, UNLESS THE DESIGN SPECIFIES OTHERWISE.
 2. PIPE ALIGNMENT TO THE DISPOSAL BEDS MAY BE ALTERED AS REQUIRED. ANY CHANGE FROM THE PLANS MUST BE APPROVED BY THE ENGINEER AND THE APPROPRIATE GOVERNMENTAL AGENCY(IES).
- 3. CONTRACTOR SHALL PROTECT TREES WHICH ARE NOT IN THE EXCAVATED CONSTRUCTION AREAS. CONTRACTOR SHALL MINIMIZE ROOT DAMAGE AND REASONABLY ADHERE TO THE DESIGN.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING A MINIMUM OF 1/4" PER FOOT OF FALL FROM THE BUILDING TO THE SEPTIC TANK.
- NO AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED OVER THE DISPOSAL AREAS. ANY WATERING IN THESE AREAS SHALL BE DONE BY HAND AND ONLY WHEN REQUIRED TO MAINTAIN GRASS COVER.
- ALL CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ANY APPLICABLE LOCAL BUILDING AND
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS SYSTEM.
- SPRAY APPLICATION AREAS SHALL BE COVERED WITH PERENNIAL GRASSES TO TAKE ADVANTAGE OF TRANSPIRATION. IF GRASSES ARE USED WHICH HAVE DORMANT PERIODS, STEPS SHOULD BE TAKEN TO PROVIDE SOME TYPE OF VEGETATION ON THE BEDS DURING THESE PERIODS.
- 8.1. RECOMMENDED COVERAGE:
- 8.1.1. BERMUDA: 1 LB/1000 S.F.
- 8.1.2. RYE: 10 LB/1000 S.F. 8.1.3. OR ST. AUGUSTINE SOD.
- SPRAY APPLICATION AREAS MUST BE MOWED AT REGULAR INTERVALS. FAILURE TO PROPERLY MAINTAIN VEGETATIVE COVER MAY RESULT IN SYSTEM FAILURE AND SHALL BE THE RESPONSIBILITY OF THE OWNER.

 10. ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS
- NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- 11. ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY DISPOSAL SYSTEM OR SEWERAGE PIPE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WATER LINES LESS THAN 10 FEET FROM THE DISPOSAL
- 12. HIGH WATER ALARM SHALL BE LOCATED IN A NOTICEABLE LOCATION. THE ALARM SHALL BE A VISUAL AND AUDIBLE ALARM AND WIRED ON A SEPARATE CIRCUIT FROM THE PUMPS. ALL EXTERIOR CONTROLS AND CONNECTIONS SHALL BE ENCLOSED IN A WEATHER-PROOF HOUSING. ELECTRICAL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL ELECTRICAL
- NO EXCAVATION IS PERMITTED NEAR THE DISPOSAL AREAS THAT WILL RESULT IN THE NONCOMPLIANCE OF APPLICABLE SETBACKS STATED IN THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY.
- 14. ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL AREAS. CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEO. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- 15. STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS. SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT
- 16. THE CONTRACTOR IS RESPONSIBLE FOR STAKING AND VERIFYING THE GRADES PRIOR TO EXCAVATION. ANY DISCREPANCIES OF MORE THAN 6 INCHES SHALL BE REPORTED TO THE ENGINEER PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS WITHOUT THE WRITTEN CONSENT OF THE APPROPRIATE AUTHORITY AND THE ENGINEER.
- WATER SOFTENER SHALL NOT BE CONNECTED TO THE SEPTIC TANK CONTRACTOR SHALL REPORT TO THE ENGINEER ANY ELEVATION
- DIFFERENCES GREATER THAN 4 FEET BETWEEN THE HIGHEST AND LOWEST TRENCH IN THE FIELD. THIS SHOULD BE CHECKED PRIOR TO INSTALLING THE LATERALS AND MANIFOLD
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE. MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLUMBING FIXTURES ARE CONNECTED TO THE DESIGNATED SEPTIC TANK(S). LOW FLOW TOILETS (1.6 GAL), SHOWERHEADS AND FAUCETS SHALL BE USED IN THE
- CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY AND PROTECTION OF THE PUBLIC FROM INJURY DURING CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE FOR THE PREVENTION OF PERSONAL INJURY TO ANYONE ON OR NEAR THE DISPOSAL SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL TANKS HAVE ADEQUATE STRENGTH AND INTEGRITY TO PERFORM SATISFACTORILY AS SHOWN ON THESE PLANS.
- 23. THE WASTEWATER FLOW TO THE SEPTIC SYSTEM SHALL NOT EXCEED THE DESIGN FLOW SHOWN ON THIS PLAN.

ASSUMED LOCATION OF WATER SERVICE ALIGNMENT FROM METER TO HOUSE. NOTE: WATER SERVICE LINE SHALL BE SLEEVED WITH SCH. 40 PVC WHEREVER IT IS 10' OR CLOSER TO PROPOSED OSSF DISPOSAL AREA LIMITS AND/OR ANY SYSTEM COMPONENT(S). EXTEND PVC SLEEVING 10' MIN. BEYOND EACH SIDE OF OSSF DISPOSAL AREA LIMITS AND/OR SYSTEM COMPONENTS.

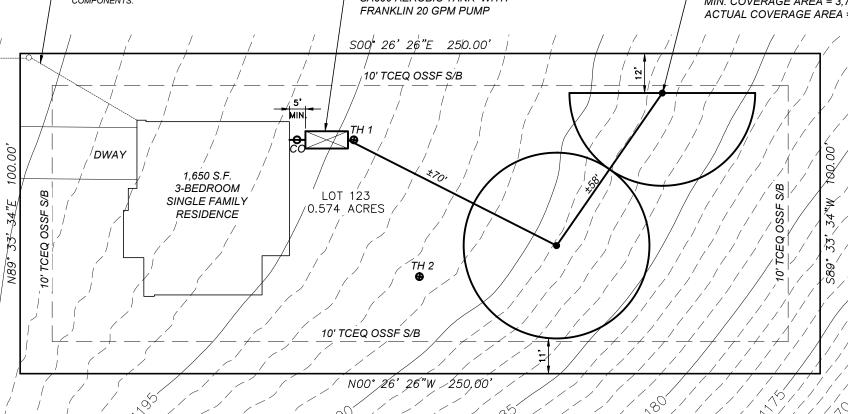
PROP. SOLAR AEROBIC SA600 AEROBIC TANK WITH

-1 OF 2 - PROP. #3 - 29'R

8:19 am, Mar 07, 2019

REVISED

SPRINKLER (K RAIN PRO PLUS MODEL 11003 - RCW). MIN. COVERAGE AREA = 3,750 SF ACTUAL COVERAGE AREA = 3,963 SF



PLAN REVISION NOTE:

THIS PLAN WAS REVISED ON 02/27/19 TO REFLECT, AS MUCH AS POSSIBLE, AS-BUILT INFORMATION PROVIDED TO HAAG ENGINEERING CONSULTANTS BY THE SEPTIC SYSTEM INSTALLER. HAAG ENGINEERING CONSULTANTS HAS NOT FIELD VERIFIED ANY SEPTIC SYSTEM AS-BUILT CONDITIONS FOR THIS PROJECT AND DOES NOT ATTEST TO IT'S VALIDITY AND/OR ACCURACY.

ADD'L. NOTES

- SPRINKLER OPERATION SHALL BE TIMED TO DOSE BETWEEN MIDNIGHT AND
- 2. A BATTERY BACKUP TO THE TIMER CLOCK SHALL BE INSTALLED TO ENSURE
- DOSING ONLY OCCURS BETWEEN MIDNIGHT AND 5:00 a.m. DESIGN DAILY WASTEWATER FLOW = 240 GPD (WATER SAVING DEVICES WERE ASSUMED FOR SEPTIC SYSTEM DESIGN)
- TOPOGRAPHIC DATA SOURCE: FEMA 2011 DATA
- THE OSSF INSTALLER SHALL FIELD VERIFY ALL PROPERTY LINE LOCATIONS THAT THIS DESIGN REFERENCES PRIOR TO ANY OSSF INSTALLATIONS.

JOHN J. HAAG

NOTE: OSSF IS NOT WITHIN FEMA 100 YEAR FLOODPLAIN.

OSSF IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.

SITE EVALUATION BY JOHN J. HAAG, P.E. ON 11/12/18

DRAWN BY: JJH CHECKED BY: JJH DATE: 02/28/19 JOB NO. BARR18032

SHEET 1 OF 1



15831 SECRET TRAILS SAN ANTONIO, TEXAS 78247

1'' = 30'

TEL: (210) 705-4268 FAX: (210) 855-8383

OSSF LAYOUT LOT 123, COTTONWOOD DR. **RANCHO DEL LAGO 11** FISCHER, TEXAS

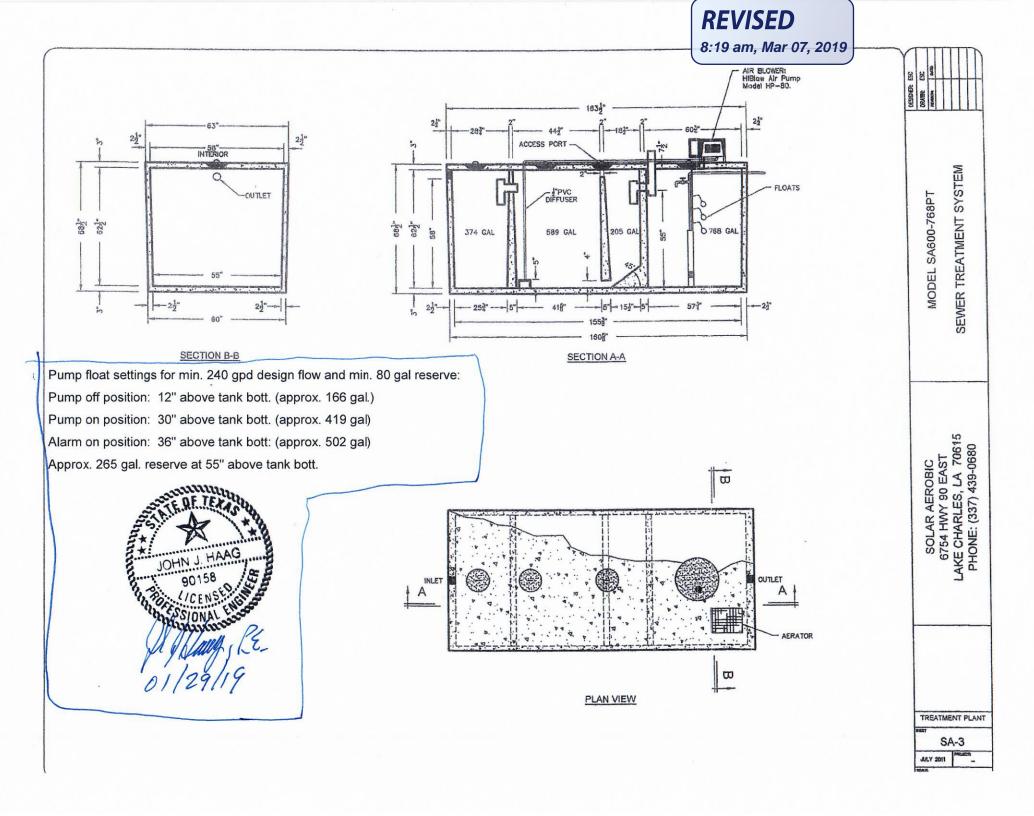
SLOPE NOTE.

DO NOT EXCEED 15%.

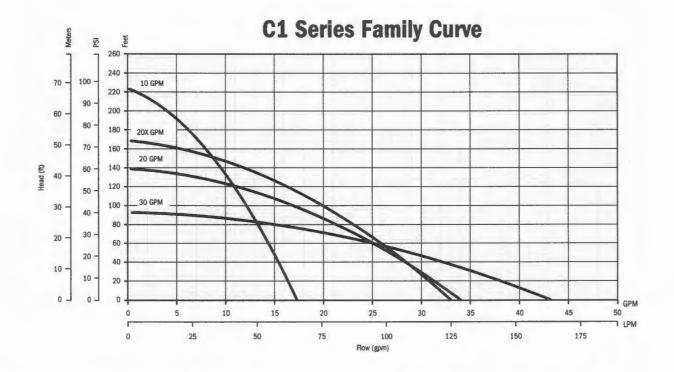
INSTALLER SHALL CUT OR FILL EXIST. GROUND

WITHIN SPRAY DISPOSAL LIMITS SO THAT TOP OF FINISHED GROUND SLOPES WITHIN SAID LIMITS

FIRM: F-5789 © COPYRIGHT 2018 HAAG ENGINEERING CONSULTANTS; ALL RIGHTS RESERVED







FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy duty 600 V 10 foot SJ00W jacketed lead

APPLICATIONS

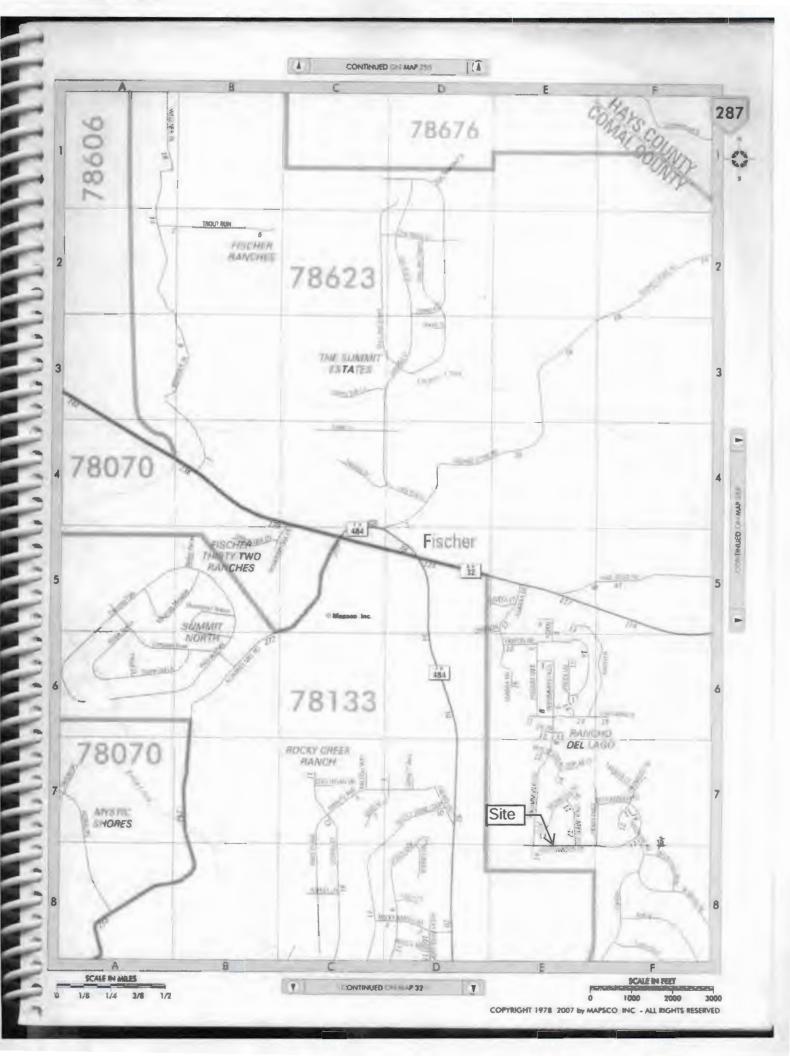
- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

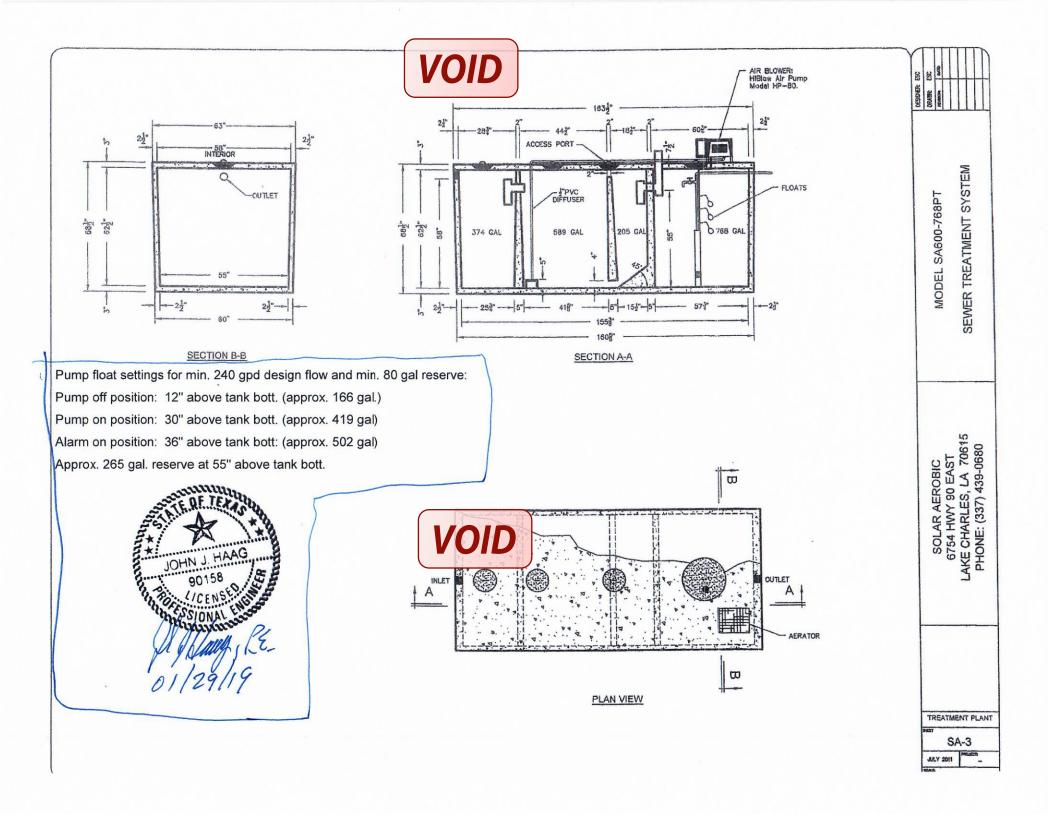
ORDERING INFORMATION

				C1 Series	Pumps		
GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10		115	7	10C1-05P4-2W115	90301005	26	17
		230	7	10C1-05P4-2W230	90301010	26	17
	115	5	20C1-05P4-2W115	90302005	25	16	
	1 40	230	5	20C1-05P4-2W230	90302010	25	16
004	1/2	115	6	20XC1-05P4-2W115	90302015	26	17
20X		230	6	20XC1-05P4-2W230	90302020	26	17
30	115	4	30C1-05P4-2W115	90303005	25	16	
	230	4	30C1-05P4-2W230	90303010	25	16	

Note: All units have 10 foot long SJOOW leads.







Surface Disposal Residential

REVISED

11:59 am, Feb 28, 2019

Aerobic With Surface Disposal

by Felix I. Bernal, P.E. (c) 2002 - 2013

SITE EVALUATION PERFORMED ON:

12-Nov-18

John J. Haag, P.E.



Date: 02/28/19

APPLICANT: Cheryl Rossi

MAILING ADDRESS:

CITY, ST, ZIP CONTRACTOR

SITE ADDRESS: 1424 Cottonwood CITY, ST, ZIP Fischer, Texas 78623

LEGAL DESCRIPTION: Lot 123, Rancho del Lago 12

WATER SOURCE: Public

SOIL TYPE



BEDROOMS Sq. Ft. 1650 3 GPD 300 GPD Normally Required 300

80%

WATER SAVING DEVICES?

0.064 GALLONS PER SQ. FT. PER DAY APPLICATION RATE =

240 GALLONS PER DAY WHICH IS USAGE FLOW =

GALLONS TWO COMPARTMENT TANK REQUIRED

SEPTIC TANK VOLUME = 750 (8 HOURS USAGE AFTER HIGH LEVEL ALARM) RESERVE CAPACITY = 80

SQ. FT. OF ABSORPTION AREA OR AREA REQUIRED = 3,750

SQ. FT. OF ABSORPTION AREA WITHOUT WATER SAVING DEVICES 4,688

0.11 ACRES OR

300 GPD

0.09 ACRES

OF

by Use a 600 GPD Treatment Plant Model SA600 Solar Aerobic (K-Rain ProPlus Low Angle Sprinkler Nozzle) Nozzle#

PSI 30 PSI WITH A 29 **FOOT RADIUS AND 3.0** 3

GPM/ SPRINKLER WITH A TOTAL OF 4.5 GPM FOR THE SYSTEM

AREA COVERED BY PROPOSED SPRINKLER HEADS

LINEAR FEET OF DISTRIBUTION = 128.0 FT. OF 150 C (HAZEN-WILLIAMS) INCH SCH-40 PURPLE PIPE

SPACE BETWEEN SPRINKLER HEADS = 58

WITH ANGLE OF DISTRIBUTION =

SPRINKLERS 2 360 AREA PER SPRINKLER =

FOR A DOSE TIME OF 53 MINUTES 2.642

OF ABSORPTION AREA

2 70 FT 360 3 4.500 1.10 2642.0 1 58 FT 180 1.5 1.500 0.12 1321.0 0 0.000 0.00 0.00 0 0.000 0.000 0.00 0.00	SPRINKLERS	LENG	TH OF PIPE	Dist. Angle	Flow GPM	Q GPM	Hf ft of head	Area	
0 0.000 0.00 0.00 0 0.000 0.00 0.00 0 0.000 0.00 0.	2	70	FT	360	3	4.500	1.10	2642.0	
0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0	1	58	FT	180	1.5	1.500	0.12	1321.0	
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	0				0	0.000	0.00	0.0	
SUM= 128 feet of pipe 4.500 1.22 ft of head 3963.0 sf Provided	. 0				0	0.000	0.00	0.0	_
	SUM=	128	feet of pipe		4.500		1.22 ft of l	head 3963.0 sf	Provided

1.20 fittings factor

1.46 ft of head

Hf for Dist Line 2.006772 ft of head 30.00 psi divided by 0.4335 = 69.20 ft of head

-2.00 ft of head elevation difference ft of head 70.67 head required for sprinkling

pressure required for sprinkling 30.64 psi

(Note: 0.4335= 62.424/144 for water at 39.2°F)

GENERAL NOTES:

- NO VEHICULAR TRAFFIC IS ALLOWED ON ANY PORTION OF THE DISPOSAL SYSTEM, UNLESS THE DESIGN SPECIFIES OTHERWISE.
 2. PIPE ALIGNMENT TO THE DISPOSAL BEDS MAY BE ALTERED AS
- REQUIRED. ANY CHANGE FROM THE PLANS MUST BE APPROVED BY THE ENGINEER AND THE APPROPRIATE GOVERNMENTAL AGENCY(IES).
- 3. CONTRACTOR SHALL PROTECT TREES WHICH ARE NOT IN THE EXCAVATED CONSTRUCTION AREAS. CONTRACTOR SHALL MINIMIZE ROOT DAMAGE AND REASONABLY ADHERE TO THE DESIGN.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING A MINIMUM OF 1/4" PER FOOT OF FALL FROM THE BUILDING TO THE SEPTIC TANK.
- NO AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED OVER THE DISPOSAL AREAS. ANY WATERING IN THESE AREAS SHALL BE DONE BY HAND AND ONLY WHEN REQUIRED TO MAINTAIN GRASS COVER.
- ALL CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ANY APPLICABLE LOCAL BUILDING AND
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS SYSTEM.
- SPRAY APPLICATION AREAS SHALL BE COVERED WITH PERENNIAL GRASSES TO TAKE ADVANTAGE OF TRANSPIRATION. IF GRASSES ARE USED WHICH HAVE DORMANT PERIODS, STEPS SHOULD BE TAKEN TO PROVIDE SOME TYPE OF VEGETATION ON THE BEDS DURING THESE PERIODS.
- 8.1. RECOMMENDED COVERAGE:
- 8.1.1. BERMUDA: 1 LB/1000 S.F.
- 8.1.2. RYE: 10 LB/1000 S.F. 8.1.3. OR ST. AUGUSTINE SOD.
- SPRAY APPLICATION AREAS MUST BE MOWED AT REGULAR INTERVALS.
- FAILURE TO PROPERLY MAINTAIN VEGETATIVE COVER MAY RESULT IN SYSTEM FAILURE AND SHALL BE THE RESPONSIBILITY OF THE OWNER.

 10. ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS
- NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- 11. ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY DISPOSAL SYSTEM OR SEWERAGE PIPE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WATER LINES LESS THAN 10 FEET FROM THE DISPOSAL
- 12. HIGH WATER ALARM SHALL BE LOCATED IN A NOTICEABLE LOCATION. THE ALARM SHALL BE A VISUAL AND AUDIBLE ALARM AND WIRED ON A SEPARATE CIRCUIT FROM THE PUMPS. ALL EXTERIOR CONTROLS AND CONNECTIONS SHALL BE ENCLOSED IN A WEATHER-PROOF HOUSING. ELECTRICAL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL ELECTRICAL
- NO EXCAVATION IS PERMITTED NEAR THE DISPOSAL AREAS THAT WILL RESULT IN THE NONCOMPLIANCE OF APPLICABLE SETBACKS STATED IN THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY.
- 14. ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL AREAS. CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEO. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- 15. STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS. SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT
- 16. THE CONTRACTOR IS RESPONSIBLE FOR STAKING AND VERIFYING THE GRADES PRIOR TO EXCAVATION. ANY DISCREPANCIES OF MORE THAN 6 INCHES SHALL BE REPORTED TO THE ENGINEER PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS WITHOUT THE WRITTEN CONSENT OF THE APPROPRIATE AUTHORITY AND THE ENGINEER.
- WATER SOFTENER SHALL NOT BE CONNECTED TO THE SEPTIC TANK CONTRACTOR SHALL REPORT TO THE ENGINEER ANY ELEVATION
- DIFFERENCES GREATER THAN 4 FEET BETWEEN THE HIGHEST AND LOWEST TRENCH IN THE FIELD. THIS SHOULD BE CHECKED PRIOR TO INSTALLING THE LATERALS AND MANIFOLD
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE. MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLUMBING FIXTURES ARE CONNECTED TO THE DESIGNATED SEPTIC TANK(S). LOW FLOW TOILETS (1.6 GAL), SHOWERHEADS AND FAUCETS SHALL BE USED IN THE
- CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY AND PROTECTION OF THE PUBLIC FROM INJURY DURING CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE FOR THE PREVENTION OF PERSONAL INJURY TO ANYONE ON OR NEAR THE DISPOSAL SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL TANKS HAVE ADEQUATE STRENGTH AND INTEGRITY TO PERFORM SATISFACTORILY AS SHOWN ON THESE PLANS.
- 23. THE WASTEWATER FLOW TO THE SEPTIC SYSTEM SHALL NOT EXCEED THE DESIGN FLOW SHOWN ON THIS PLAN.

SLOPE NOTE.

INSTALLER SHALL CUT OR FILL EXIST. GROUND WITHIN SPRAY DISPOSAL LIMITS SO THAT TOP OF FINISHED GROUND SLOPES WITHIN SAID LIMITS DO NOT EXCEED 15%.

ASSUMED LOCATION OF WATER SERVICE ALIGNMENT FROM METER TO HOUSE. NOTE: WATER SERVICE LINE SHALL BE SLEEVED WITH SCH. 40 PVC WHEREVER IT IS 10' OR CLOSER TO PROPOSED OSSF DISPOSAL AREA LIMITS

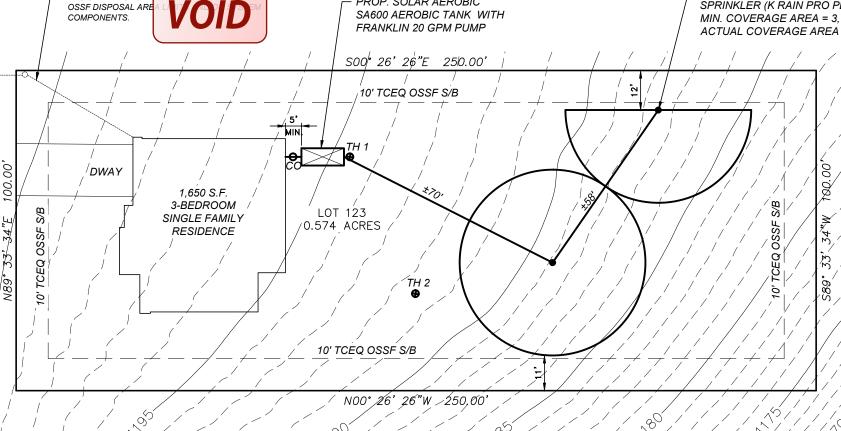
AND/OR ANY SYSTEM PVC SI FEVING 10' M

PROP. SOLAR AEROBIC SA600 AEROBIC TANK WITH FRANKLIN 20 GPM PUMP

12:00 pm, Feb 28, 2019

REVISED

·1 OF 2 - PROP. #3 - 29'R SPRINKLER (K RAIN PRO PLUS MODEL 11003 - RCW). MIN. COVERAGE AREA = 3,750 SF ACTUAL COVERAGE AREA = 3,963 SF



PLAN REVISION NOTE:

THIS PLAN WAS REVISED ON 02/27/19 TO REFLECT, AS MUCH AS POSSIBLE, AS-BUILT INFORMATION PROVIDED TO HAAG ENGINEERING CONSULTANTS BY THE SEPTIC SYSTEM INSTALLER. HAAG ENGINEERING CONSULTANTS HAS NOT FIELD VERIFIED ANY SEPTIC

S-BUILT CONDITIONS FOR THIS PROJECT S NOT ATTEST TO IT'S VALIDITY AND/OR

ADD'L. NOTES

- SPRINKLER OPERATION SHALL BE TIMED TO DOSE BETWEEN MIDNIGHT AND
- A BATTERY BACKUP TO THE TIMER CLOCK SHALL BE INSTALLED TO ENSURE DOSING ONLY OCCURS BETWEEN MIDNIGHT AND 5:00 a.m. DESIGN DAILY WASTEWATER FLOW = 240 GPD (WATER SAVING DEVICES
- WERE ASSUMED FOR SEPTIC SYSTEM DESIGN) TOPOGRAPHIC DATA SOURCE: FEMA 2011 DATA
- THE OSSF INSTALLER SHALL FIELD VERIFY ALL PROPERTY LINE LOCATIONS THAT THIS DESIGN REFERENCES PRIOR TO ANY OSSF INSTALLATIONS.

1'' = 30'

JOHN J. HAAG

OSSF LAYOUT LOT 123, COTTONWOOD DR. **RANCHO DEL LAGO 11**

FISCHER, TEXAS

NOTE: OSSF IS NOT WITHIN FEMA 100 YEAR FLOODPLAIN.

OSSF IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.

SITE EVALUATION BY JOHN J. HAAG, P.E. ON 11/12/18

DRAWN BY: JJH CHECKED BY: JJH DATE: 02/28/19 JOB NO. BARR18032

SHEET 1 OF 1



15831 SECRET TRAILS SAN ANTONIO, TEXAS 78247 FIRM: F-5789

TEL: (210) 705-4268 FAX: (210) 855-8383

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Aerobic With Surface Disposal

by Felix I. Bernal, P.E. (c) 2002 - 2013 SITE EVALUATION PERFORMED ON: 12-Nov-18 John J. Haag, P.E. Date: 12/19/18 APPLICANT: Cheryl Rossi MAILING ADDRESS: RECEIVED CITY, ST, ZIP CONTRACTOR DEC 1 9 2018 SITE ADDRESS: 1424 Cottonwood CITY, ST, ZIP Fischer, Texas 78623 COUNTY ENGINEER LEGAL DESCRIPTION: Lot 123, Rancho del Lago WATER SOURCE: Public SOIL TYPE AT SLOPE OF <15% **BEDROOMS** 3 Sq. Ft. 1650 Normally Required 300 **GPD** 300 GPD WATER SAVING DEVICES? Y APPLICATION RATE = 0.064 GALLONS PER SQ. FT. PER DAY USAGE FLOW = 240 GALLONS PER DAY WHICH IS 80% OF 300 GPD SEPTIC TANK VOLUME = 750 GALLONS TWO COMPARTMENT TANK REQUIRED RESERVE CAPACITY = 80 (8 HOURS USAGE AFTER HIGH LEVEL ALARM) AREA REQUIRED = 3,750 SQ. FT. OF ABSORPTION AREA OR 0.09 ACRES SQ. FT. OF ABSORPTION AREA WITHOUT WATER SAVING DEVICES 4,688 OR 0.11 ACRES 500 **GPD Treatment Plant Model** LA-500 Hoot Use a (K-Rain ProPlus Low Angle Sprinkler Nozzle) PSI Nozzle # 3 30 **PSI WITH A** 29 **FOOT RADIUS AND 3.0** GPM/ SPRINKLER WITH A TOTAL OF 4.5 GPM FOR THE SYSTEM AREA COVERED BY PROPOSED SPRINKLER HEADS LINEAR FEET OF DISTRIBUTION = 128.0 FT. OF INCH SCH-40 PURPLE PIPE 150 C (HAZEN-WILLIAMS) SPACE BETWEEN SPRINKLER HEADS = 58 FOR A DOSE TIME OF 53 MINUTES 2 **SPRINKLERS** WITH ANGLE OF DISTRIBUTION = 360 AREA PER SPRINKLER = 2,642 OF ABSORPTION AREA SPRINKLERS LENGTH OF PIPE Dist. Angle Flow GPM Q GPM Hf ft of head Area 360 4.500 1.10 2642.0 70 FT 1 58 FT 180 1.5 1.500 0.12 1321.0 0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.0 0 0.000 0.00 0.000 0.0 0 0.00 1.22 ft of head 3963.0 sf SUM= 128 feet of pipe Provided 1.20 fittings factor 1.46 ft of head Hf for Dist Line 2.006772 ft of head (Note: 0.4335= 62.424/144 for water at 39.2°F) 30.00 psi divided by 0.4335 = 69.20 ft of head -2.00 ft of head elevation difference ft of head 70.67 head required for sprinkling 30.64

pressure required for sprinkling

NO VEHICULAR TRAFFIC IS ALLOWED ON ANY PORTION OF THE 1 NO VEHICULAR THAFFIC IS ALLOWED ON ANY PORTION OF THE DISPOSAL SYSTEM, UNLESS THE DESIGN SPECIFIES OTHERWISE 2 PIPE ALIGNMENT TO THE DISPOSAL BEDS MAY BE ALTERED AS REQUIRED. ANY CHANGE FROM THE PLANS MUST BE APPROVED BY THE

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 CONTRACTOR'S RESPONSIBLE FOR VEHICING A MIDIMUM OF THE FEOTOF FALL FROM THE BUILDING TO THE SEPTIC TANK
 NO AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED OVER THE DISPOSAL AREAS ANY WATERING IN THESE AREAS SHALL BE DONE BY HAND AND ONLY WHEN REQUIRED TO MAINTAIN GRASS COVER

8 ALL CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ANY APPLICABLE LOCAL BUILDING AND SAFETY CODES CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS SYSTEM 8 SPRAY APPLICATION AREAS SHALL BE COVERED WITH PERENNIAL

GRASSES TO TAKE ADVANTAGE OF TRANSPIRATION IF GRASSES ARE USED WHICH HAVE DORMANT PERIODS, STEPS SHOULD BE TAKEN TO PROVIDE SOME: 1YPE OF VEGETATION ON THE BEDS DURING THESE PERIODS

8.1 RECOMMENDED COVERAGE 81 RECOMMENDED COVERAGE 811 BERMUDA 1LB/1000 S.F. 812 RYE 10 LB/1000 S.F. 813 OR ST AUGUSTINE SOD

SPRAY APPLICATION AREAS MUST BE MOWED AT REGULAR INTERVALS FAILURE TO PROPERLY MAINTAIN VEGETATIVE COVER MAY RESULT IN SYSTEM FAILURE AND SHALL BE THE RESPONSIBILITY OF THE OWNER 10 ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S

RECOMMENDATION ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY DISPOSAL SYSTEM OR SEMERAGE PIPE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WATER LINES LESS THAN 10 FEET FROM THE DISPOSAL. AREA

12 HIGH WATER ALARM SHALL BE LOCATED IN A NOTICEABLE LOCATI THE ALARM SHALL BE A VISUAL AND AUDIBLE ALARM AND WIRED ON A SEPARATE CIRCUIT FROM THE PUMPS ALL EXTERIOR CONTROLS AND HIGH WATER ALARM SHALL BE LOCATED IN A NOTICEABLE LOCATION CONNECTIONS SHALL BE ENCLOSED IN A WEATHER-PROOF HOUSING ELEC FRICAL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL ELECTRICAL AND BUILDING CODES

NO EXCAVATION IS PERMITTED NEAR THE DISPOSAL AREAS THAT WILL

IS NO EXCUSION OF THE MINISTER OF APPLICABLE SETBACKS STATED IN THE RESULT IN THE NONCOMPLIANCE OF APPLICABLE SETBACKS STATED IN THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY 14 ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL AREAS CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM DISPOSAL AREAS CLAY LOAM IS UNACCEPT ABLE AND WILL CAUSE STSTEM FAILURE SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ THE INSTALLER IS RESPONSIBLE FOR VERILYING THE QUALITY OF EACH LOAU

THE INSTALLER'S RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOND OF LOAM PLACED ON THE SYSTEM 15 STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS DIVERSION BERMS, SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT SUCH RUNOFF 16 THE CONTRACTOR IS RESPONSIBLE FOR STAKING AND VERIFYING THE

GHADES PRIOR TO EXCAVATION ANY DISCREPANCIES OF MORE THAN 6 GRADES PRIOR TO EXCAVATION. ANY DISCREPANCIES OF MORE THAN 6 INCHES SHALL BE REPORTED 10 THE ENGINEER PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS WITHOUT THE WRITTEN CONSENT OF THE APPROPRIATE AUTHORITY AND THE ENGINEER.

1/ WATER SOFTEMER SHALL NOT BE CONNECTED TO THE SEPTIC TANK

18 CONTRACTOR SHALL REPORT TO THE ENGINEER ANY ELEVATION

DIFFERENCES GREATER THAN 4 FEET BETWEEN THE HIGHEST AND LOWEST TRENCH IN THE FIELD. THIS SHOULD BE CHECKED PRIOR TO INSTALLING THE

LATERALS AND MANIFOLD
19 THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY
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20 CUNTRACTOR SHALL BE RESPONSIBLE FOR VERHFYING ALL PLUMBING FIXTURES ARE CONNECTED TO THE DESIGNATED SEPTIC TANKIS, LOW FLOW TOTILETS (16 GAL) SHOWERHEADS AND FAUCETS SHALL BE USED IN THE

21 CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY AND PROTECTION OF THE PUBLIC FROM INJURY DURING CONSTRUCTION TH OWNER SHALL BE RESPONSIBLE FOR THE PREVENTION OF PERSONAL INJURY

OWNER SHALL BE RESPONSIBLE FOR THE PREVENTION OF PERSONAL INJURY
22 CONTRACTOR SHALL BE RESPONSIBLE TO BUSINE THAT ALL TANKS
HAVE ADEQUATE STRENGTH AND INTEGRITY TO PERFORM SATISFACTORILY

HAVE ADEQUATE STRENGTH AND INTEGRITY TO PERFORM SATISFACTORIES AS SHOWN ON THESE PLANS 23 THE WASTEWATER FLOW TO THE SEPTIC SYSTEM SHALL NOT EXCEED THE DESIGN FLOW SHOWN ON THIS PLAN

ASSUMED LOCATION OF WATER SERVICE ALIGNMENT FROM METER TO HOUSE NOTE. WATER SERVICE LINE SHALL BE SLEEVED WITH TO PROPOSE AND/OR ANY 1 OF 2 - PROP. #3 - 29'R PVC SLEEVIN OSSF DISPO SPRINKLER (K RAIN PRO PLUS MODEL 11003 - RCW). PROP. HOOT LA-500 COMPONEN MIN. COVERAGE AREA = 3,750 SF AEROBIC TANK WITH ACTUAL COVERAGE AREA = 3,963 SF FRANKLIN 20 GPM PUMP SOO 26' 26"E 250.00' . 10' TCEQ OSSF S/B DWAY 1,650 S.F. 3-BEDROOM 8 LOT 123 SINGLE FAMILY /0.574 ACRES OSSF RESIDENCE CEO TCEQ (TH 2 10, 10' TCEO OSSE S/B NOO" 26' 26"W 250,00' 1,000 1180 719U. 1185



ADD'L. NOTES

SPRINKLER OPERATION SHALL BE TIMED TO DOSE BETWEEN MIDNIGHT AND

5 00 a m A BATTERY BACKUP TO THE TIMER CLOCK SHALL BE INSTALLED TO ENSURE DOSING ONLY OCCURS BETWEEN MIDNIGHT AND 5 00 a m

DESIGN DAILY WASTEWATER FLOW - 240 GPD (WATER SAVING DEVICES WERE ASSUMED FOR SEPTIC SYSTEM DESIGN)

TOPOGRAPHIC DATA SOURCE FEMA 2011 DATA

THE OSSF INSTALLER SHALL FIELD VERIFY ALL PROPERTY LINE LOCATIONS THAT THIS DESIGN REFERENCES PRIOR TO ANY OSSF INSTALLATIONS

1" = 30'



RECEIVED

DEC 1 9 201

COUNTY ENONE OF S

12/19/18

OSSF LAYOUT LOT 123, COTTONWOOD DR. **RANCHO DEL LAGO 11** FISCHER, TEXAS

SLOPE NOTE

INSTALLER SHALL CUT OR FILL EXIST GROUND

FINISHED GROUND SLOPES WITHIN SAID LIMITS

WITHIN SPRAY DISPOSAL LIMITS SO THAT FOR OF

NOTE: OSSE IS NOT WITHIN FEMA 100 YEAR FLOODPLAIN.

OSSF IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE

SITE EVALUATION BY JOHN J. HAAG. P.E. ON 11/12/18

DRAWN BY: JJH CHECKED BY: JJH DATE: 12/19/18 JOB NO. BARR18032

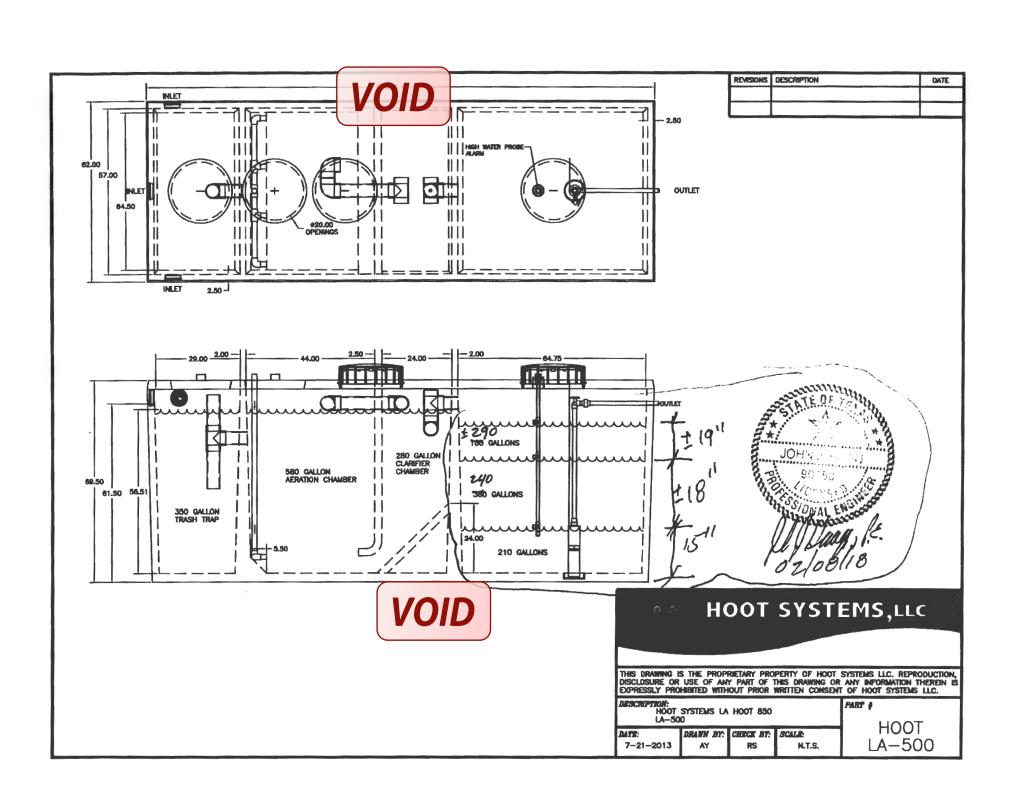
SHEET 1 OF 1

EC HAAG ENGINEERING CONSULTANTS

15831 SECRET TRAILS SAN ANTONIO, TEXAS 78247 FIRM: F-5789

TEL: (210) 705-4268 FAX: (210) 855-8383

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NEW BRAUNFELS TITLE CO. CANYON LAKE OFFICE

RECEIVED

DEC **1 9** 2018

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

GENERAL WARRANTY DEED

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

THAT JERRY L. HILBURN and wife, KATHY S. HILBURN, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by CHERYL ROSSI, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

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

Lot 123, RANCHO DEL LAGO PHASE XI, a subdivision in Comal County, Texas, according to the Map and/or Plat thereof recorded in Volume 8, Page 8, 192, Official Public Records, Comal County, Texas

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

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

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

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

DATED this the _______ day of July, 2018.

JERRY L. HILBURN

KATHY S HILBURN

STATE OF TEXAS S
COUNTY OF Comal S

This instrument was acknowledged before me on this the 2018, by JERRY L. HILBURN and wife, KATHY S. HILBURN.

Notaly Public, State of Texas

GRANTEE'S MAILING ADDRESS:

ELPASO, TX 79930

8219f.deeds New Braunfels Title Co. - CL (NR) GF #87369NBT NANCY R. ROMINE
Notary Public, State of Texas
Notary 10# 803352-1
My Commission Expires
AUGUST 31, 2018

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 07/20/2018 04:19:52 PM JESSICA 2 Pages(s) 201806028516



1. Actual date of test:				
Scheduled Insp. Service Order, R				
All access ports secured: des) No			
inspected item	Operational	N <u>onoperational</u>		
Aerators				
Filters				
Irrigation Pumps	Separation.			
Disinfection Device				
Chlorine Supply	-OK			
Electrical Circuits	-			
Distribution System				
Spray field				
Other as noted				
3. Repairs to system:				
4. Tests required and results:				
<u>Test</u> Required Yes-No	Res	<u>ult</u>		
BOD TSS Cl1 Fecal Coli form	<i>.</i>	3		
5. General comments:				

1. Actual date of	test: 3-	31.20	2
2. System inspect	ion: Property Ow	ner: /Pass	
	Property add	iress: 1404 Co	TONWED D
	Permit num	ber: 10853/	
	Person Perfe	orming Inspection:_	1 4000
	Signature:	(Benher	
Scheduled Insp.	Service Order, R	epair, Other	
All access ports	secured: (Tes	No	
Inspected Item		Operational	Nonoperational
Aerators			
Filters		_	
Irrigation Pumps			
Disinfection Devi	ce		
Chlorine Supply		- OR	
Electrical Circuit	\$	_	
Distribution Syste	em		
Spray field			
Other as noted			
Repairs to system	n;		
Tests required an	d results:		
Test	Required Yes-No	Res	ult
BOD	-		
TSS			
Cl1	and the same of th	C	n, /
Fecal Co	di form		. /
5. General comm	nents:		

Permit nu Person Pe	owner: 10,50 address: 1434 imber: 10856 irrforming Inspection: 10,50	2 /
Scheduled insp. Service Order,	•	
All access ports secured: Ye		
Inspected Item	Operational	Nonoperational
Aerators Filters Irrigation Pumps Disinfection Device Chlorine Supply Electrical Circuits		
Distribution System Spray field Other as noted		
3. Repairs to system:		
1. Tests required and results:		
<u>Test</u> Required Yes-No	Res	ult
BOD TSS Cl1 Fecal Coli form	_	2,/

1. Actual date of test: 12-	1-20	
Permit numl Person Perfo Signature:	ber: 10859 pering Inspection:	LLEARD
Scheduled Insp. Service Order, Re	epair, Other	
All access ports secured: Yes	No	
Inspected Item	Operational	N <u>onoperational</u>
Aerators Filters Irrigation Pumps Disinfection Device Chlorine Supply Electrical Circuits Distribution System Spray field Other as noted 3. Repairs to system:		
4. Tests required and results:		
Test Required Yes-No BOD TSS	Resu	_
Cl1 Fecal Coli form 5. General comments:	0.	. /

ROCKY RIDGE SEPTIC LLC

2449 Rocky Ridge Loop Canyon Lake Texas. 78133

> 830-935-2750 Home 830-935-2753 Fax

Homeowner 1424 Cottonwood Fischer Tx 78623

Site: 1424 Cottonwood Permit# 108521

Contract Start Date: 3-8-21 Contract End Date: 3-8-22

ROUTINE MAINTENANCE AND INSPECTION AGREEMENT

This work for hire is entered into and between (client) residing at 1424 Cottonwood and David Barker (contractor) located at 2449 Rocky Ridge Loop, Canyon Lake TX. 78133. (830-935-2750). By this agreement the contractor agrees to render professional service and the client agrees to fulfill the terms of this agreement. This agreement will provide to all required inspections, testing, and services for your Aerobic Treatment System. This agreement will provide:

- 3 inspections per year (at least one every four months) for a total of 3 over the one year period. These
 inspections will include inspecting control panel, air pumps, diffuser operation, and replacing or repairing
 any component not functioning property. Any alarm situation affecting the proper operation of the aerobic
 treatment process will be addressed within a 48 hour period.
- An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow, and examination for odor. A test for chlorine residual and ph will be taken and reported as necessary.
- If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified in writing of the estimated date of repair.
- Customer is responsible for chlorine tablets or liquid chlorine. Customer is responsible for cost of replacement parts plus labor.
- Any additional visits, inspections or sample collection required by specific Municipalities, water/river authorities, County Agencies, the TCEQ, or any other regulatory agency will not be covered by this agreement.

At the conclusion of this agreement, our company will make available for purchase on an annual basis, a continuing service agreement

The manufactures homeowners' manual must be strictly adhered to or warranties are subject to invalidation. Pumping of sludge build up is not covered by this agreement

ACCESS BY CONTRACTOR

The contractor or anyone authorized by the contractor may enter the property at reasonable times without prior notice for the purpose of the above mentioned services. The contractor may access the system components including the tank by means of excavation for the purpose of evaluation if necessary. Soil is to be replaced as best as possible.

Payment: The client will pay the contractor for services in the amount of \$200.00. This will be payable in one lump sum upon acceptance of this agreement.

TERMINATION

Either party may terminate this agreement within 10 days of written rotice (in event of substantial failure to perform by either party. If this agreement is terminated, the contractor will notify the appropriate agency.

HOMEOWNER

SERVICE PROVIDER Signature / Bas hu Date 2 110~ 2 1

Rocky Ridge Septic (830) 935-2750

Signature Phone

Date

pr 2122/21

2449 Rocky Ridge Loop Canyon Lake Tx.78133

409-939-264

1. Actual date of test: 3~	5-21	
Permit nun Person Per	wner: Cresham ddress: 1424 Co- nber: 16852 I forming Inspection: L Albanham	14000
Scheduled Insp. Service Order,	Repair, Other	i
All access ports secured: Yes	No No	
Inspected Item	<u>Operational</u>	Nonoperational
Aerators Filters Irrigation Pumps Disinfection Device Chlorine Supply Electrical Circuits Distribution System Spray field Other as noted Repairs to system:		
I. Tests required and results:		!
Test Required Yes-No BOD TSS Cl1 Fecal Coli form	Result	
5. General comments:		

1. Actual date of test:	7-24-21	•
Pro Per Per	perty Owner: GRAhm perty address: 1424 Carmit number: 10852 rson Performing Inspection: nature: 1260 human	LLAPPO
Scheduled Insp. Service		
All access ports secured:	Yes No	•
Inspected Item	Operational	N <u>onoperational</u>
Aerators	-	
Filters		
Irrigation Pumps	-	
Disinfection Device		
Chlorine Supply ———		
Electrical Circuits		
Distribution System	_	
Spray field		
Other as noted		
. Repairs to system:		
l. Tests required and result	s:	
<u>Test</u> Requi		<u>esult</u>
BOD	comme.	
TSS		
Cl1	0	
Fecal Coli form		
5. General comments:		

1. Actual date of test:	7-24-21	•
Pro Per Per	perty Owner: GRAhm perty address: 1424 Carmit number: 10852 rson Performing Inspection: nature: 1260 human	LLAPPO
Scheduled Insp. Service		
All access ports secured:	Yes No	•
Inspected Item	Operational	N <u>onoperational</u>
Aerators	-	
Filters		
Irrigation Pumps	-	
Disinfection Device		
Chlorine Supply ———		
Electrical Circuits		
Distribution System	_	
Spray field		
Other as noted		
. Repairs to system:		
l. Tests required and result	s:	
<u>Test</u> Requi		<u>esult</u>
BOD	comme.	
TSS		
Cl1	0	
Fecal Coli form		
5. General comments:		