

COMAL COUNTY

ENGINEER'S OFFICE

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:	10/16/2019		Permit Number:	108924
Location Description:	171 BARRETT BLANCO, TX			
	Subdivision:	Forest View North		
	Unit:	2		
	Lot:	147		
	Block:			
	Acreage:			
Type of System:	Aerobic			
	Surface Irrigation	n		
Issued to:	Lisa & Jeffrey l	Barrett		

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

OS0032485

0500077

INVIRONMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEARTH COORDINATOR

		and the set of the set of the set	invironmental Health				
Installer Name: Charles Fo	nuil	le	OSSF Installer #: 05 000 543	-7			1
1st Inspection Date: 5-30	0-19	2nd Inspection Dat		Date:	10-	16-19;	final
Inspector Name: Connor		Inspector Name:	Inspector	Name	ion	nor 1	
Permit#: 108924			Address: Forest View north	17	1 B	mett	Vien
Description SITE AND SOIL CONDITIONS &	Anwsar	Citations 285.31(a)	Notes		insp.	2nd Imp.	3rd Insp
STE AND SOLL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	1	285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(ii)		1	-		
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)	1	285.32(a)(1)		-	-		
SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	1	285.32(a)(3)		1	-		
SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	/	285.32(a)(5)			/		
PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G)285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(F) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(i) 285.32(b)(1)(E) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(i)					
PRETREATMENT Grease Interceptors if required for commercial		285.34(d)	no leaks operation 10-16-19				

No	Description	Anwser	Citations	Notes	1st insp.	2nd Imsp.	Jrd insp.
	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	K	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)(ii) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iii)(I)				
0	APPLICATION AREA Low Angle Nozzies Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed	1	285.33(d)(2)(G)(l) 285.33(d)(2)(A) 285.33(d)(2)(F)		1		
42	APPLICATION AREA Area Installed	1			1		
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
14	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						

		OSSF Ins	pection Sheet	-		
Installer Name: Charles Fo	muil	le	OSSF Installer #: 05 000 5	427		
1st Inspection Date: 5-3	0-19	2nd Inspection Da	te: 3rd Inspe			
Inspector Name:	-	Inspector Name:	Inspe	ctor Name:		
Permit#: 108924			Address: Forest View North	6 171 1	Sanett	View
Description	Anwser	Citations	Notes	1st insp.	2nd Insp.	3rd Insp.
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	1	285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii)		1		
SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	1	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	1	285.32(a)(3)		1		
SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	/	285.32(a)(5)		1		
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)(G) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii) 285.32(b)(1)(E)(ii) 285.32(b)(1)(E)(ii)(1)				
PRETREATMENT Grease Interceptors if required for commercial tank set		285.34(d)				

io. Description	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		285.32(b)(1)(E) 285.91(2) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(ii)(1) 285.32(b)(1)(E)(ii)(1) 285.32(b)(1)(E)(i) 285.32(b)(1)(D) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(i) 285.32(b)(1)(B) 285.32(b)(1)(A) 285.32(b)(1)(E)(iv)				
ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	/	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		/		
SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
0 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)				
SEPTIC TANK Tank Volume Installed						
PUMP TANK Volume Installed						
AEROBIC TREATMENT UNIT Size Installed	1			/		
4 AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model 5 Number	/		Proflo nuwater Model B-55	2		
DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(2)				
6 DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(4) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

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No. Description	Anwser	Citations	Notes	1st Insp.	2nd insp.	3rd Insp.
DISPOSAL SYSTEM Drip Irrigation		285.33(a)(1)			133	
		285.33(a)(3)				
		285.33(a)(4)				
9		285.33(a)(2)				
DISPOSAL SYSTEM Soil		205 22/ 11/11				
Substitution		285.33(d)(4)				
DISPOSAL SYSTEM Pumped		285.33(a)(3)		-		1.1.1.1.1.1.1
Effluent		285.33(a)(1)				
1		285.33(a)(2)	-	1	12 1 1 1 2	C. C. C.
DISPOSAL SYSTEM Gravelless Pip		285.33(a)(3)				
Dist Oske Statent Graveness rig		285.33(a)(2)				
		285.33(a)(4)				
		285.33(a)(1)				
2		285.33(a)(3)				
DISPOSAL SYSTEM Mound		285.33(a)(1)				
		285.33(a)(2)				1
3		285.33(a)(4)				
DISPOSAL SYSTEM Other		285.33(d)(6)				
(describe) (Approved Design)		285.33(c)(4)	aerobic spray	1		
4	-		10			
DRAINFIELD Absorptive Drainline		Part I Freedor				100
3" PVC			and the second			
5 or 4" PVC						1
DRAINFIELD Area Installed						
DRAINFIELD Level to within 1 inc	h					
per 25 feet and within 3 inches						1200
over entire excavation		285.33(b)(1)(A)(v)				1.1.1.1
7		and the second second				100
DRAINFIELD Excavation Width						Burn Sector
DRAINFIELD Excavation Depth						a ships of
DRAINFIELD Excavation						1. 28 8
Separation DRAINFIELD Depth o	F					14. 3
Porous Media						1966
DRAINFIELD Type of Porous Mee	lia					1
						10.000
8						
DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
9						
DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open E						
Plates w/Splash Plate, Inspectio					12-12-14	
Port & Closed End Plates in Plac						
(per manufacturers spec.)	-	285.33(c)(2)			-	
(per manufacturers spec.)						
LOW PRESSURE DISPOSAL					-	
SYSTEM Adequate Trench Lengt	h					
& Width, and Adequate		205 22(d)/4)/C//i)				
Separation Distance between		285.33(d)(1)(C)(i)				
Trenches						
31		the second second second				-

No.	Description	Amwser	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 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B) 285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
	AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.	/	285.32(c)(1)		1		
	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions	1111			1111		
54	AEROBIC TREATMENT UNIT	/					
	Chlorinator Properly Installed 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 Out						
37	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 PUMP TANK Secondary restraint						
	system provided PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried	1			/		+

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	1	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)(ii) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)		-		
40	APPLICATION AREA Low Angle	/					
	Nozzles Used / Pressure is as required	-			1		
	APPLICATION AREA Acceptable Area, nothing within 10 ft of	1	285.33(d)(2)(G)(i) 285.33(d)(2)(A)		1		
	sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed	1	285.33(d)(2)(F)		-		
41		1.1.1					
	APPLICATION AREA Area Installed	/			1	1.5.5	
42		-				1 1 2 4 1	
	PUMP TANK Meets Minimum Reserve Capacity Requirements					-	
43						L	
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						



Comal County office of comal county engineer

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

Permit Number:	108924
Issued This Date:	04/09/2019
This permit is hereby given to:	Lisa & Jeffrey Barrett

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

171 BARRETT VW BLANCO, TX 78606

Subdivision:Forest View NorthUnit:2Lot:147Block:Acreage:

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.



May 7, 2019

Jeffrey & Lisa Barrett 317 Chama Trace Dripping Springs, TX 78620

Re: Street Name Approval Notice

To Whom It May Concern:

Please be advised that Bexar Metro 9-1-1, the United States Postal Service and Comal County Commissioners Court have considered and approved the naming of a private driveway located approximately 500ft west of the intersection of Oakland Dr and Carmel Dr within 78606, Comal County:

Barrett Vw

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

Sincerely,

Holly Braun Address Coordinator

Cc:

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



May 7, 2019

Jeffrey & Lisa Barrett 317 Chama Trace Dripping Springs, TX 78620

Re: Physical Address Change Notice

To Whom It May Concern:

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

Property ID	Legal Description	Previous Address (INVALID)	New Assigned Address (VALID)
			155 BARRETT VW
	FOREST VIEW NORTH 2, LOT 147 BLANCO,	BLANCO,	
27239			TX 78606
21259		TX 78606	171 BARRETT VW
		1A /0000	BLANCO,
			TX 78606

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

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

Sincerely,

Holly Braun Address Coordinator

Cc:

Comal Appraisal District

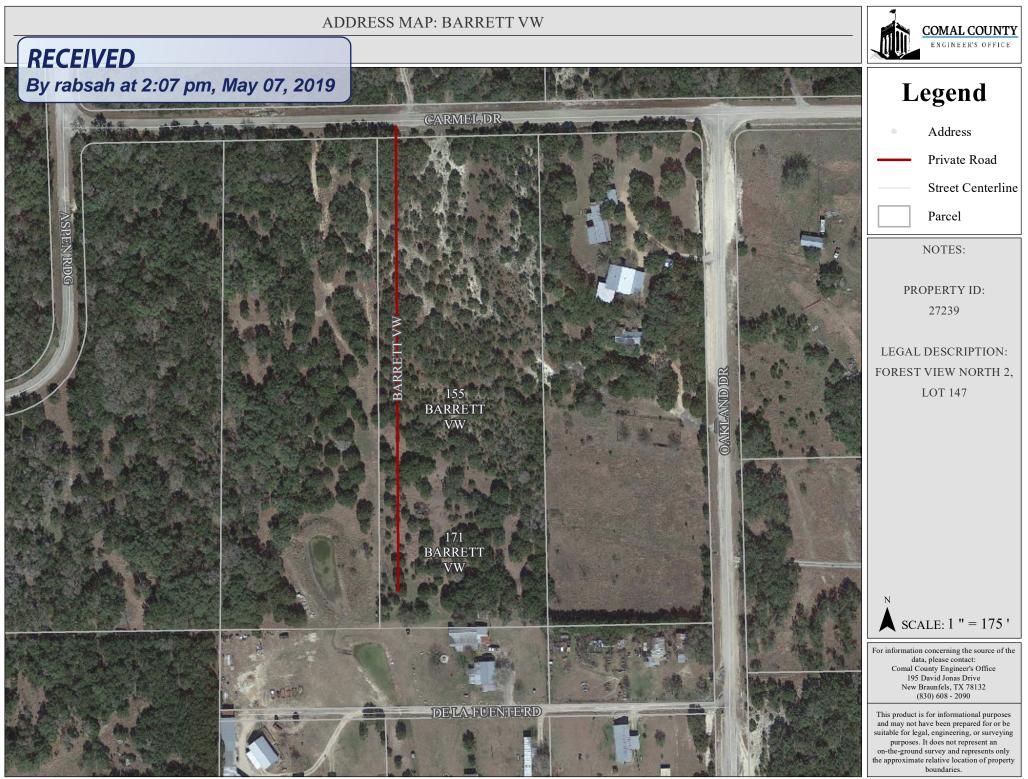
United States Postal Service

Bexar Metro 9-1-1

. –

✤ PEC

Page 1 of 1



Date: 5/7/2019 ~ Document Path: \\bfs\RAB\Team Drive\GISData\Holly_CurrentMXDProjects\AddressCoordinatorMap_01252019.mxd ~ User Name: braunh

REVISED

11:08 am, May 14, 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>

Date5/13/2019			Permit # <u>10892</u>	4
Owner Name	Lisa and Jeffrey Barrett	Agent Name	Stephen Jetton	
Mailing Address	s 317 Chama Trace	Agent Address	2573 Deer Stand Loop	
City, State, Zip	Dripping Springs, TX 78620	City, State, Zip	San Marcos TX 78666	
Phone #	512-743-4677	Phone #	512-757-1259	
Email	jeffandlisa.barrett@gmail.com	Email	stephen.jetton@gmail.com	
All corres	spondence should be sent to: Owner A	gent 🔀 Both	Method: 🔲 Mai	🔀 Email
Subdivision Nar	me Forest View North 2	Unit	Lot <u>147</u>	Block
Acreage/Legal	6.2			
Street Name/Ac	ddress 171 Barrett VW	City Blanco)	Zip <u>78606</u>
Type of Develo	pment:			· · · · · · · · · · · · · · · · · · ·
🔀 Single Far	mily Residential			
Type of Cor	nstruction (House, Mobile, RV, Etc.) Mobile Hom	ne		A.
Number of I	Bedrooms <u>3</u>			
Indicate Sq	Ft of Living Area 1568			
Commerci	al or Institutional Facility			
(Planning mat	erials must show adequate land area for doubling the	required land needed f	or treatment units and disr	oosal area)
Type of Fac		•	· · · · · · · · · · · · · · · · · · ·	····,
•••	ctories, Churches, Schools, Parks, Etc Indicate		nts	
	s, Lounges, Theaters - Indicate Number of Seats	·		
	I, Hospital, Nursing Home - Indicate Number of I			
	er/RV Parks - Indicate Number of Spaces			
Miscellaneo				
Estimated Co	st of Construction: \$ (Struc	ture Only)		
Is any portion	of the proposed OSSF located in the United Sta	ites Army Corps of Er	ngineers (USACE) flowa	age easement?
🗌 Yes 🛛	No (If yes, owner must provide approval from USACE for	or proposed OSSF improve	ements within the USACE flow	wage easement)
Source of Water	r 🔲 Public 🔀 Private Well	· · · · · · · · · · · · · · · · · · ·		
Are Water Savir	ng Devices Being Utilized Within the Residence?	' 🗌 Yes 🔀 No		
	plication, I certify that: application and all additional information submitted do	es not contain any false	information and does not	conceal any material
	hereby given to the permitting authority and designate on and inspection of private sewage facilities	ed agents to enter upon	the above described prop	erty for the purpose of
- I understand tha	t a permit of authorization to construct will not be issu	ed until the Floodplain	Administrator has performe	ed the reviews required
	ounty Flood Damage Prevention Order. nsent to the online posting/ <u>public re</u> lease of my e-mai	il address associated w	ith this permit application	as applicable
$\bigcap]$	B B B B B B B B B B B B B B B B B B B		and portine application,	
	The second secon	5-13-1	9	
Signature of 0	Dypier	Date		Page 1 of 2
	195 David Jonas Dr. New Braunfels Texas 7	79132 3760 (930) 609 200	0 Eax (830) 608 2078	Davis d L L 201

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

Revised July 2018

* * * 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>
Planning Materials & Site Evaluation as Required Completed By Stephen Setton
System Description NOWATER 3.550
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) 600 610 Absorption/Application Area (Sq Ft) 3925.0
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
(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) MAR 28 2019
Is there an existing TCEQ approved WPAP for the property? Yes No COUNTY ENGINEER (If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zone? 🗹 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 Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
Is this property within an incorporated city? Yes No
If yes, indicate the city:
By signing this application, I certify that: - The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.
Signature of Designer Date Page 2 of 2
VV ,

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

Revised July 2018



201906009129 03/19/2019 10:33:42 AM 1/2

AFFIDAVIT TO THE PUBLIC

THE COUNTY OF COMAL STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

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 owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

MAR 28 2019

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): ______ F072F57 VIEW NORTH 2, L07 147

I

CUNITENGINEER The property is owned by (insert owner's full name): mett

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

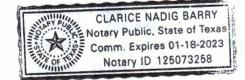
Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS 13 DAY OF Feldword 20 (9)

signature(s)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 13 DAY OF

Λ Notary Public, State of Texas



REVISED	
11:07 am, May 14, 2019	

Regulatory Authority	Permit/License Number 108924
WASTEWATER TREATMENT FA	CILITYY MONITORING AGREEMENT
Block Creek Aerobic Services, LLC	Customer Lisa and Jeffrey Barrett
444 A Old Hwy #9	Site Address 171 Barrett View
Comfort, TX 78013	City Blanco Texas Zip 78606
Off.(830) 995-3189	Mailing Address 317 Chama Trace
Fax. (830) 995-4051	County Comal Map #
n george anno 25 george an 18 george ann	Phone 512-743-4677
	Email ieffandlisa.barrett@gmail.com

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Customer") and Block Creek Aerobic Service,

LLC. By this agreement, Block Creek Aerobic Service, LLC and its employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein.

II. Effective Dates: This Agreement commences on

and end on

for a total of two (2) years (initial agreement) or one (1) year (there after). If this is an initial agreement (new installation), the Customer will notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

III. Termination of Agreement: This Agreement may be terminated b either party with thirty (30) days written notice for any reason, including for example, substantial failure to perform in accordance with its terms, without fault or liability of the terminating party. If this Agreement is so terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any remaining monies from prepayment for services will be refunded to customer within thirty (30) days. Either party terminating this Agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination. Nonpayment of any kind shall be considered breach of contract and a termination of contract.

IV. Services: Contractor will:

a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel. c. Repair or replace, if Contractor has necessary materials at site, any component of the OSSF to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and services costs are \$100.00. or

less. Customer hereby authorizes Contractor to perform the service and bill Customer for said service. When service costs are greater than \$100.00, or if contractor does not have necessary supplies at the site. Contractor will notify Customer of required service(s) and associated cost(s). Customer must notify Contractor of arrangements to affect repair of system with two (2) business days after said notification.

d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).

e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.

f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

V. Disinfection: _____Not required _XX___required. The responsibility to maintain the disinfection device(s) and provide any necessary chemicals is that of the Customer. (Initial)

V. Electronic Monitoring is not included in this Agreement.

VI. Performance of Agreement: Commencement of performance by Contractor under this Agreement is contingent on the following conditions:

a. If this is an initial Agreement (new installation):

i. Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.

ii. Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of this Agreement.

b. If this is not an initial Agreement (existing system):

i. Contractors receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.

ii. Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of this Agreement.

c. If the above conditions are not met, Contractor is not obligated to perform any portion of this Agreement.

VII. Customer's Responsibilities: The customer is responsible for each and all of the following:

RECEIVED

Not required; X required. The responsibility to maintain the disinfection device(s) and provide any necessary chemicals is that of the Customer.

VI. Electronic Monitoring:

Electronic Monitoring is not included in this Agreement.

VII. Performance of Agreement:

Commencement of performance by Contractor under this Agreement is contingent on the following conditions:

a. If this is an initial Agreement (new installation):

I. Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.

If the above conditions are not met, Contractor is not obligated to perform any portion of this Agreement.

VIII. Customer's Responsibilities:

The customer is responsible for each and all of the following:

a. Provide all necessary yard or lawn maintenance and removal of all obstacles, including but not limited to dogs and other animals, vehicles, trees, brush, trash, or debris, as needed to allow the OSSF to function properly, and to allow Contractor safe and easy access to all parts of the OSSF.

b. Protect equipment from physical damage including but not limited to that damage caused by insects.

c. Maintain a current license to operate, and abide by the conditions and limitations of that license, and all requirements for and OSSF from the State and/or local regulatory agency, whichever requirements are more stringent, as well as the proprietary system's manufacturer recommendations.

d. Notify Contactor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.

e. Provide, upon request by Contractor, water usage records for the OSSF so that the Contractor can perform a proper evaluation of the performance of the OSSF.

f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluating the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section IV (d) above, Customer agrees to pay Contractor for the sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing.

g. Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.

h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.

i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at Customer's expense.

j. Maintain site drainage to prevent adverse effects on the OSSF.

k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

IX. Access by Contractor:

Contractor is hereby granted an easement to the OSSF for the purpose of performing services described herein. Contractor may enter the property during Contractor's normal business hours and/or other reasonable hours without prior notice to Customer to perform the Services and/or repairs described herein. Contractor shall have access to the OSSF electrical and physical components. Tanks and treatment units shall be accessible by means of man ways, or risers and removable covers, for the purpose of evaluation as required by State and/or local rules and the proprietary system manufacturer. It is Customers responsibility to keep lids exposed and accessible at all times.

X. Limit of Liability:

Contractor shall not be held liable for any incidental, consequential, or special damages, or for economic loss due to expense, or for loss of profits or income, or loss of use to Customer, whether in contract tort or any other theory. In no event shall Contractor be liable in an amount exceeding the total Fee for Services amount paid by Customer under this Agreement.

XI. Indemnification:

Customer (whether one or more) shall and does hereby agree to indemnify, hold harmless and defend Contractor and each of its successors, assigns, heirs, legal representatives, devisees, employees, agents and/or counsel (collectively "Indemnitees") from and against any and all liabilities, claims, damages, losses, liens, causes of action, suits, fines, judgments and other expenses (including, but not limited to, attorneys' fees and expenses and costs of investigation), of any kind, nature or description, (hereinafter collectively referred to as "Liabilities") arising out of, caused by, or resulting, in whole or in part, from this Agreement.

Customer's Initials



BS

THIS INDEMNITIFCATION APPLIES EVEN IF SUCH LIABILITIES ARE CAUSED BY THE CONCUMENT OF 2019 CONTRIBUTORY NEGLIGENCE OR BY THE STRICT LIABILITY OF ANY INDEMNITEE.

Customer hereby waives its right of recourse as to any Indemnitee when Indemnification applies, and Customer delivery in the insurer(s) to waive its/their right of subrogation to the extent such action is required to render such waiver of subrogation effective. Customer shall be subrogated to Indemnitees with respect to all rights Indemnitees may have against third parties with respect to matters as to which Customer provides indemnity and/or defense to Indemnitees. No Indemnification is provided to Indemnitees when the liability or loss results from (1) the sole responsibility of such Indemnite; or, (2) the willful misconduct of such Indemnitee. Upon irrevocable acceptance of this Indemnification obligation, Customer, in its sole discretion, shall select and pay counsel to defend Indemnitees of and from any action that is subject to this Indemnification provision. Indemnitees hereby covenant not to compromise or settle any claim or cause of action for which Customer has provided Indemnification without the consent of Customer.

XII. Severability:

If any provision of the "Proposal and Contract" shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of the "Agreement" is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.

XIII. Fee for Services:

The Fee for Services does not include any fees for equipment, material, labor necessary for non-warranty repairs, unscheduled inspections, or Customer requested visits to the site.

XIV. Payment:

Full payment is due upon execution of this Agreement (Required of new Customer). For any other service(s) or repair(s) provided by Contractor the Customer shall pay the invoice(s) for said service(s) or repair(s) within thirty (30) days of the invoice date. The Contractor shall mail all invoices on the date of invoice. All payments not received within thirty (30) days from the invoice date will be subject to a \$29.00 late penalty and a 1.5% per month carrying charge, as well as any reasonable attorney's fees, and all collection and court costs incurred by Contractor in collection of unpaid debt(s). Contractor may terminate contract at any time for nonpayment for services. Any check returned to Contractor for any reason will be assessed a \$30.00 return check fee.

XV. Application or Transfer of payment:

The fees paid for this agreement may be transferred to subsequent property owner(s); however, this Agreement is not transferable. Customer shall advise the subsequent property owner(s) of the State requirement that they sign a replacement agreement authorizing Contractor to perform the herein described Services, and accepting Customer's Responsibilities. This replacement must be signed and received in Contractor's offices within ten (10) business days of date of transfer of property ownership. Contractor will apply all funds received from Customer first to any past due obligation arising from this Agreement including late fees or penalties, return check fees, and/or charges for services or repairs not paid within thirty (30) days of invoice date. Any remaining monies shall be applied to the funding of the replacement Agreement. The consumption of funds in this manner may cause a reduction in the termination date of effective coverage per this Agreement. See Section IV.

XVI. Entire Agreement:

This agreement contains the entire Agreement of the parties, and there are no other conditions in any other agreement, oral or written.

unto S. industick

Block Creek Aerobic Services, LLC, Contractor MC# 0000042 and MC#0000002

Date Signature

BS

Customer's Initials



Contractor's Initials

OSSF SOIL EVALUATION FORM

Owner's Name: Lisa & Jeffrey Barrett

Physical Address: 171 Barrett View

Legal Description: Lot 147, Forest View North 2 - 6.2 acres

Date Performed: 2-27-19

Proposed Excavation Depth: 6"

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-ft. below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
- Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

Depth (ft.)	Textural Class	Structure (For class III – blocky, platy or massive)	Drainage (Mottles, Water Table)	Restrictive Horizon	Observations
0 0-6" 1 0-6" 2 3 4 5	III	< 30 % gravel	No signs of Mottling	6"	Class III. No shallow groundwater noted. Not suitable for standard disposal. Aerobic surface irrigation recommended.

Soil Boring Number: 1

Soil Boring Number: 2

Depth (ft.)	Textural Class	Structure (For class III – blocky, platy or massive)	Drainage (Mottles, Water Table)	Restrictive Horizon	Observations
0 0-6" 1 0-6" 2 3 4	III	< 30 % gravel	No signs of Mottling	6"	Class III. No shallow groundwater noted. Not suitable for standard disposal. Aerobic surface irrigation recommended.

Features of Site Area

Presence of 100 year flood zone

Presence of adjacent ponds, streams, water impoundment's Existing or proposed water well in nearby area Organized sewage available to lot or tract Recharge features within 150 feet

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

Signature of Site evaluator & Detter

No STEPHEN F. JETTON S530 SOMAL



Southwest Septic Design

On-Site Sewage Facility Application and Design

Prepared For:

Lisa & Jeffrey Barrett 171 BarrettView Blanco, Texas

Design 2002619

Prepared By:

Stephen F. Jetton _____ Revision 5/8/2019 Registered Professional Sanitarian



Stephen Jetton

Stephen F. Jetton • Southwest Septic Design 2573 Deer Stand Loop • San Marcos, Texas 78666 • Fax (512) 392-5645 • Mobile (512) 757-1259 E – Mail <u>stephen.jetton@grandecom.com</u>

Southwest Septic Design

2573 Deer Stand Loop San Marcos, Texas 78666 Hays County

Fax (512) 392-5645 Mobile (512) 757-1259

> Design Report On-Site Sewage facility Aerobic Wastewater Treatment System Utilizing Surface Spray Application

OWNER/SITE LOCATION:

Lisa & Jeffrey Barrett 171 Barrett View Lot 147, Forrest View North 2 Blanco, Texas

SITE DESCRIPTION & EVALUATION:

A site evaluation indicated class III soils (see attached soil evaluation report). No evidence of shallow groundwater was noted. This property is not within the Edwards Aquifer Recharge Zone, and no recharge features are located within 150 feet of the proposed system. *All portions of this proposed OSSF will maintain at least a 10' separation from all water lines*. According to the Federal Emergency Management Agency Flood Insurance Rate Map, this tract is not within zone A, 100-year Floodplain (see attached site plan). Minimum separation distances as stated in §285 TCEQ, On-Site Sewage Facilities, must be maintained.

WASTEWATER DESIGN FLOW:

This design is for a 1568 sq. ft., 3-bedroom single-family residence utilizing low-flow fixtures. This site is serviced by a private water well. The proposed OSSF will be designed to accommodate *240 gallons per day*, as per TCEQ, On Site Sewage Facilities effective 12-27-2012.

Please Note that this permit will not be valid if final heated square footage exceeds 2499 sq. ft., and/or 3 bedrooms.

AEROBIC TREATMENT SYSTEM DESCRIPTION:

This residence will utilize a Nuwater Aerobic Treatment Plant, Model B-550-PC-400P. A 353gallon pretreatment/trash tank will precede the 600-gallon per day aerobic treatment tank. Effluent from the aeration tank will flow through a liquid chlorinator (**Model NG 300V 200**) to a 768-gallon pump tank. The pump tank serves as a chlorine contact chamber and a storage tank prior to the treated/chlorinated effluent being discharged to sprinkler heads. The disposal area will consist of 2 - 25 ft. 360° radius patterns. The system is considered a "package system", and will be installed according to manufacturer's instructions.

Stephen Jetton



Design Specification:

Size of Residence	Primary Living Area	1568 ft ²
Number of Bedrooms		3
Average Expected Flow		240 GPD
Application Rate	0.064 Gal./ft²/Day	0.064
Minimum Application Area	(GPD)/(0.064 Gal./ft²/Day)	3750.00 ft ²
Actual Application Area	$3.14(r^2)$ x number of heads	3925.00 ft ²

System Components:

Trash Tank	353 gallon one-compartment
Aeration Tank	600 gallon per day
Pump Tank	768 gallon

Pump Tank:

Pump Tank gallons per inch: 14.49"

Operating Capacity: 14.49" x 17" = 246.33 operating gallons.

Reserve Capacity: 53" usable depth (53 x 14.49 = 768.00) 768.00 - 449.19 = 318.8 reserve gallons.

Pump off	13" Above tank floor	188.37 Gallons
Pump on	14" Above tank floor	202.86 Gallons
Alarm on	31" Above tank floor	449.19 Gallons

Combined capacity of pretreatment and aeration tank is 953-gallons. A 768-gallon, singlecompartment pump tank allows for a one-third days flow above the alarm-on level.

Pump and Sprinkler Head Requirements:

Pump: Franklin C1 Series Pump, Model 20C1-05P4-2W115 1/2 H.P.

Sprinkler Head: Hunter I20-3RV-2.0LA (equipped with anti-siphon nozzles and purple top).

Nozzle #: **3.0** *LA* (Low angle trajectory, 11 degrees), operating at 25 psi, 25ft. radius and 2.5 GPM flow per sprinkler.

Dosing:

Application Flow Rate 2.5 gpm/head x 2 heads = 5.0

Application Time: 2 doses @ 120 gal/dose / 5.0 gpm = $\sim 24 \text{ min/dose}$



Stephen Jettor

Head Requirements:

Elevation head: 3 (assumed elevation at top of pump 1185 and highest spray head at 1188) Pressure head: 25 psi x 2.31 ft/psi = 57.75 ft Friction head: 1" Sch. 40 PVC @ 5.0 gpm = 2.13 ft. ($80 \times 2.13/100 \times 1.2$) = 2.04 TDH = 3 ft. + 57.75 ft. + 2.04 ft = 61.79 (within pump curve).

A commercial timer must be set to provide two doses a day, one at 1 a.m. and the other at 4 a.m. An unthreaded sampling valve must also be provided. Under the Texas Administrative Code, §285 On-Site Sewage Facilities, this system must be installed with a night timer, set to spray between the hours of 1 am and 5 am.

Alarm System:

An audio/visual high water alarm will be installed on this system. NuWater control panel (SPI-BIO Model 50B138-AAV-PT) with Timed Control with 24hr timer (Grasslin FM/1 Pin Timer) or equal. The alarm/light will be installed in a high visible location close to the pump tank.

Optional Components:

- 40 PSI Pressure Regulator will be used to maintain the 40 PSI to the sprinkler heads. The installer will consult me or G.P. Equipment when purchasing this device. The pressure reducer will be placed in-line between the pump and the spray heads. Additionally this particular spray head is adjustable to help achieve the required radius.
- Pressure Gauge of not less than 45PSI will be installed to regulate flow to the spray field.

Installation Notes:

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage Facility's set forth in the Texas Administrative Code, δ285 On-Site Sewage Facilities.
- The installer must have a current and valid Texas installer certificate, and is required to have at the minimum an Installer II certification.
- The installer must notify designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with the approved plans and specifications.
- The installer may not alter these plans without the approval of the designer.
- Diversion berms will be place when needed to protect irrigation area from excessive runoff.
- All electrical installation must be in compliance with applicable electric codes.
- All outside electrical components must be placed in electrical conduit.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in §285 for On-Site Sewage Facilities.

Tank Notes:

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



- All tanks are to be set level on a layer, with a minimum thickness of 4 inches, of sand, sandy loam, clay loam, or pea gravel.
- Tank excavations must be backfilled with soil or pea gravel that is free of rock larger than ¹/₂ inch in diameter. Class IV soils and gravel larger than ¹/₂ inch in diameter are not acceptable for use as backfill material. If the top of a septic tank extends above the ground surface, soil may be mounded over the tank to maintain slope to the drain field.
- Risers are required over all tank openings and must extend to the ground surface.
- Risers shall be permanently fastened to the tank lid.
- The riser lid shall screw down and have a lock or weigh 65lbs.
- A secondary plug, cap, netting, etc. shall be provided below the riser lid.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, or to prevent the infiltration of water.
- Tanks must be filled with water for 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8" per foot from house to tank.
- PVC pipe from house to tank must be at least Sch.40 or SDR 26.

Irrigation & Landscaping Notes:

- Irrigation lines shall be 1" Sch.40 PVC. Sleeve any pipe that crosses under any roads or driveways with Sch.40 PVC.
- Purple Pipe must be used for all irrigation lines.
- Supply lines must be buried at least 6" below finished grade.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify property owner prior to removal of any trees that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4" of suitable soil
- Vegetation must be established before system is in use.

Additional Notes:

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when the alarms are activated.
- A hose bib must be installed in pump tank at tank inspection port.
- The chlorinator must be constructed to allow a chlorine residual of 1.0 mg/1 in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in §285, TCEQ, On-Site Sewage Facilities. Approved disinfections methods using chlorinated tablets, must use calcium hypochlorite that is properly labeled for wastewater disinfections.

Maintenance Requirements:

- The applicant must furnish to the regulatory authority a valid maintenance contract with a certified maintenance company before a permit will be issued.
- The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation.
- The initial contract will be a minimum of 2 years.



Stephen Jetton

- A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed.
- The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Affidavit:

- The applicant must file a certified copy of an affidavit at the County clerk's office and filed in reference to the real property deed on which the surface application system is the be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:
 - (1) The new owner being advised that the property contains a surface application system for wastewater disposal;
 - (2) The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules, i.e.; the permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF had been severed from the property.
 - (3) The new owners submitting a valid maintenance contract to the permitting authority.

Operation and Management Notes:

- The OSSF should not be treated as a normal city sewer.
- Water conservation practices should be used at all times. Consult your local authorities for more information.
- Run the dishwasher with a full load whenever possible
- Avoid running water continuously when brushing teeth, washing hands, or cleaning food and utensils.
- Repair any water leaks immediately, such as running toilets or leaky faucets.
- The owner is responsible for cleaning and pumping the septic tank, typically every 2 to 3 years depending on system usage.
- Do not use the toilet to dispose of tissue, feminine hygiene products, trash, cigarettes, etc.
- It is recommended that you do not use the garbage disposal and/ or garbage grinders in the facility serviced by this system.
- Household chemicals should be used in moderation.
- According to §285, no water softener will be allowed to enter the OSSF.
- Chemical additives or the so-called enzymes should not be used during the operation of this system. Some of these additives may even be harmful to the facilities operation.
- Do not build driveways, storage buildings, decks, or other structures over the tank or disposal area.
- The OSSF must be protected from coming in contact with vehicular traffic.
- A strong vegetative cover is essential for the proper operation of this system. The property owner is solely responsible for maintaining this vegetation. The irrigation area should be groomed by mowing on a regular basis.
- If you notice a problem with the spray patterns, or any of the alarms are activated, contact your maintenance provider immediately.
- Never place a greater wastewater load on your system than that prescribed by the design of the system (240 gallons per day).



Stephen Jetton

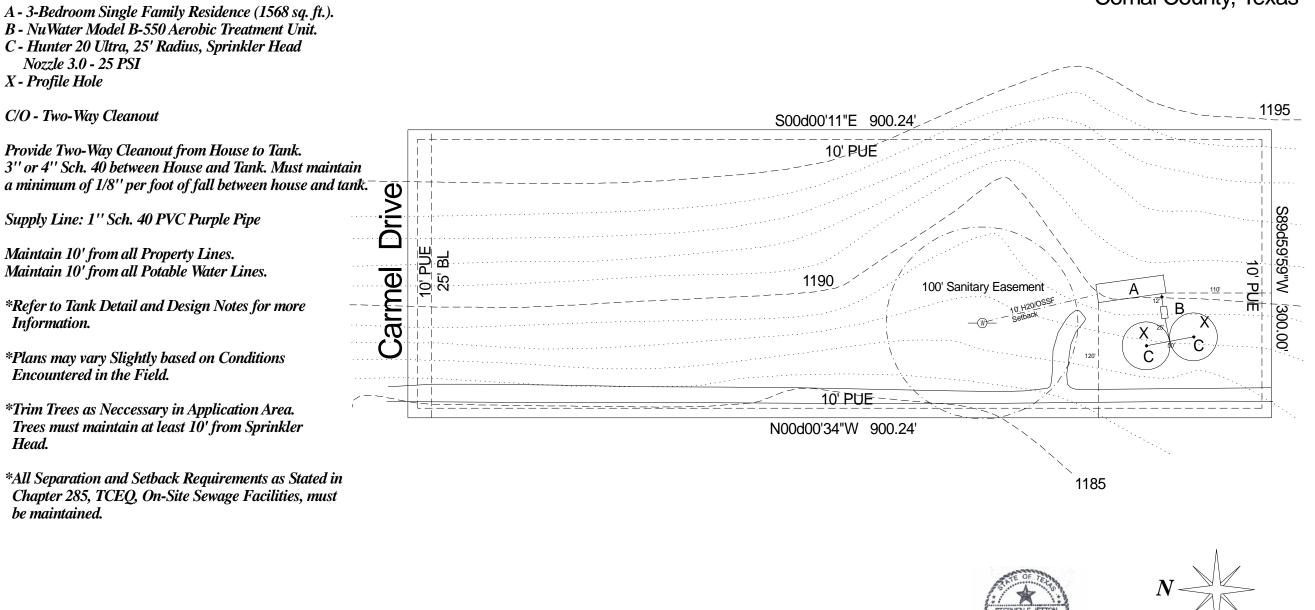
*The proposed system has been designed generally following the minimum requirements under TCEQ §285 On Site Sewage Facilities. The site evaluation and subsequent design are based on technical information currently available. The performance of the OSSF is not, and cannot be guaranteed even though all provisions of the Standards have been complied with. If failure should occur, additions to the OSSF may have to be made. In extreme cases a substitute system may be required. By accepting this design, the homeowner/contractor understands the aforementioned conditions, and agrees that the designer will not be liable for any more than the agreed upon design





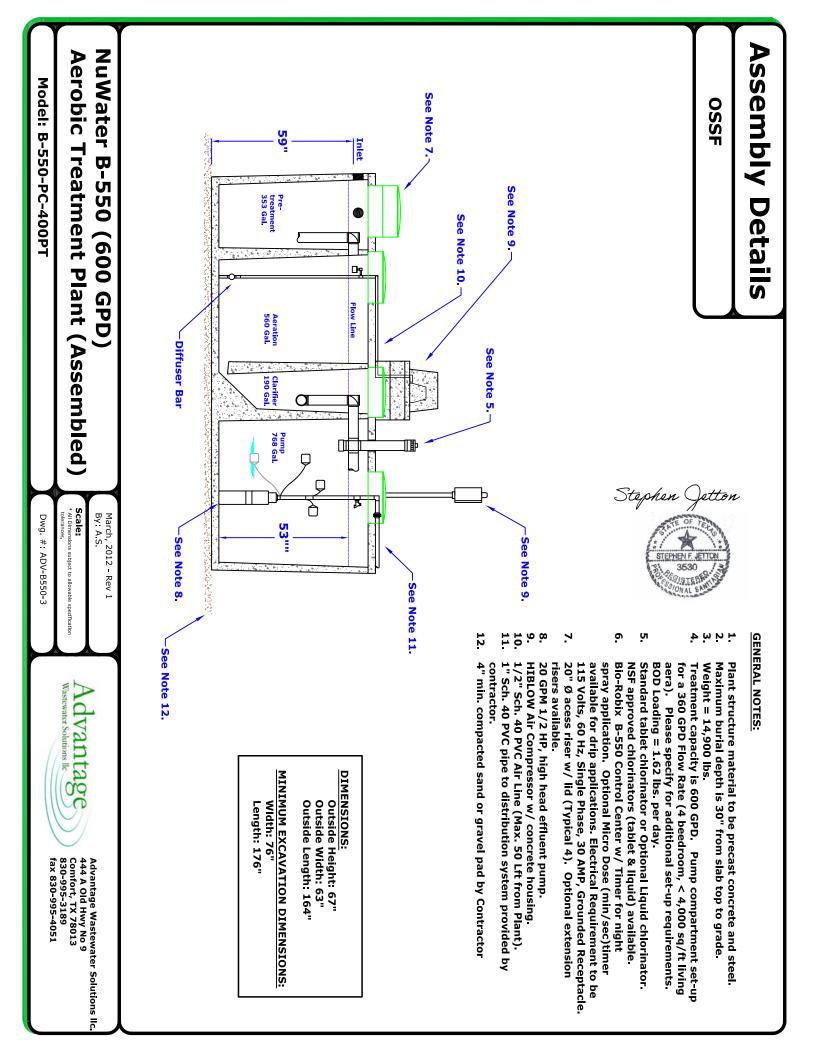
171 Barrett View Blanco, Texas

Lot 147 Forest View North Unit No. 2 Comal County, Texas



*This is not intended to be used as an official survey. All structures and Contour locations are approximate. *Flood Plain Note: This property is not within the Regulated Flood Plain. Panel 48209C0237F Dated: 9/2/2005 Stephen Jetto

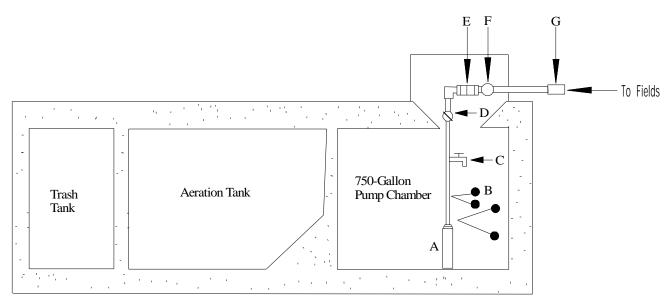
Scale: 1'' = 100'



Typical Pump Tank Cross Section

A -Franklin C1 Series Pump Model 20C1-05PA-2W115 1/2 HP

- **B** Wide Angle Mercury Float Switch
- **C** Sampling Port
- D Pressure Regulator
- **E** Quick Disconnect Union
- F 40 PSI Pressure Guage
- G Check Valve



NuWater B-550 (600 GPD) Aerobic Treatment Plant



Not to Scale

CISTERN PUMPS

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

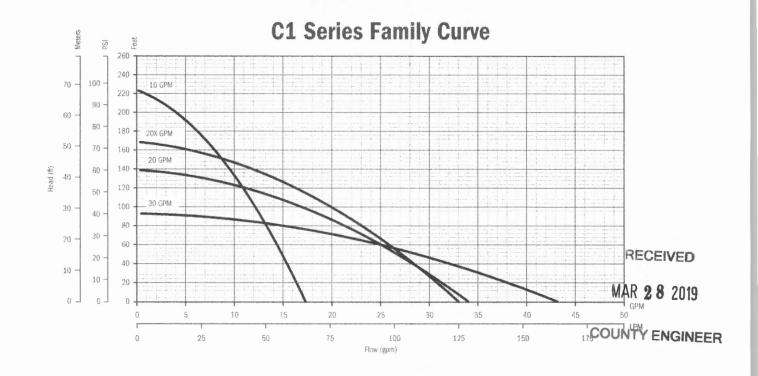
The pump's unique bottom suction design allows for maximum fluid drawdown without compromising durability or overall life, and it does not require the use of a flow induction sleeve. Intended specifically for use in a cistem or tank, C1 Series pumps are suitable for use in agricultural, residential, and commercial installations. MAR RECEIVED MAR 28 2019 COUNTY ENGINE

GT SERIES

(+) (+)

ranklin Electric

franklinwater.com



FEATURES

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

APPLICATIONS

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

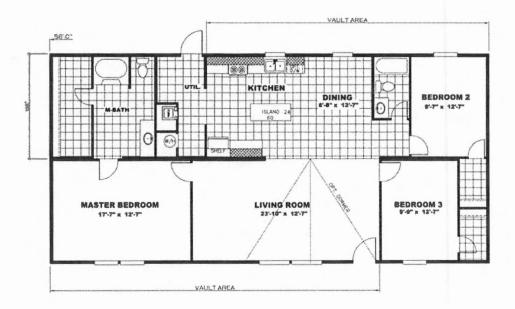


ORDERING INFORMATION

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
20	1/0	230	5	20C1-05P4-2W230	90302010	25	16
202	1/2	115	6	20XC1-05P4-2W115	90302015	26	17
20X		230	6	20XC1-05P4-2W230	90302020	26	17
20		115	4	30C1-05P4-2W115	90303005	25	16
30		230	4	30C1-05P4-2W230	90303010	25	16

Note: All units have 10 foot long SJOOW leads.

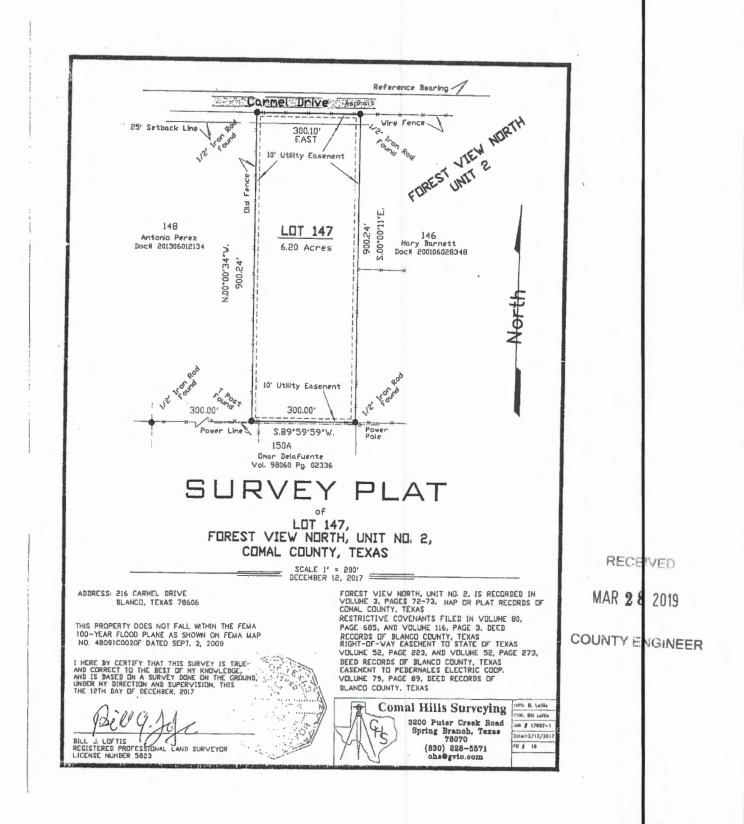




RECEIVED

MAR 28 2019

COUNTY ENGINEER



Hernandez, Sandra

From:	Hernandez, Sandra
Sent:	Thursday, May 9, 2019 8:59 AM
То:	'stephen.jetton@gmail.com'; 'jeffandlisa.barrett@gmail.com'
Subject:	108924 deficiency comment
Attachments:	Pages from 108924.pdf

RE: Forest View North, Unit 2, Lot 147

Stephen,

We received revised planning materials yesterday, but still need the following:

Have the homeowner revise the address on the permit application and maintenance contract. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thanks you,

Sandra Ann Hernandez Envíronmental Health Asst. Comal County Engíneer's Office cceo.org 830-608-2090 (Ext. 3156)

Hernandez, Sandra

From:	Hernandez, Sandra
Sent:	Tuesday, April 2, 2019 12:17 PM
То:	'jeffandlisa.barrett@gmail.com'
Subject:	108924 deficiency comment

RE: Forest View North Unit No. 2, Lot 147

Dear property owner,

We received planning materials for the referenced permit application on March 28, 2019 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:

VIt appears that there is discrepancy with the address being used for this property. Please contact Holly Braun, Comal County Address Coordinator for more information at, 830-608-2090.

Thank you,

Sandra Ann Hernandez Envíronmental Health Asst. Comal County Engíneer's Office cceo.org 830-608-2090 (Ext. 3156)

Hernandez, Sandra

From:Braun,HollySent:Friday, March 29, 2019 9:05 AMTo:Ritzen, Brenda; Hernandez, SandraSubject:OSSF - 108923 & 108924Attachments:Request_For_Naming_A_Private_Driveway.pdf

Brenda, Sandra,

The address 216B & 216C Carmel Dr referenced on OSSF Permit# 108923 & 108924 are not valid addresses; alphanumeric primary addresses are not assigned within Comal County. Comal County requires a shared driveway serving multiple addressed structures be named by the property owner(s) as to create a named private driveway. The existing address 216 Carmel Dr would require a change of address to reflect the approved private driveway.

To move forward with naming the shared private driveway the property owners must complete the attached form. When the form is returned our office will review the proposed road names and forward to Bexar Metro 9-1-1 and the United States Postal Service for approval. The proposed road name is then submitted to the Comal County Commissioners Court for final approval. After the road has been approved the property owners will receive an approval letter with new address assignments and the Comal County Road Department will install a road name sign at the juncture of the driveway.

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

Sincerely,



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



Comal County office of comal county engineer

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

Permit Number:	108924
Issued This Date:	04/09/2019
This permit is hereby given to:	Lisa & Jeffrey Barrett

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

216 CARMEL DR BLANCO, TX 78606

Subdivision: Forest View North Unit: 2 Lot: 147 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 County requirements.

Call (830) 608-2090 to schedule inspections.

PERMIT CONDITION - ADDRESS MUST BE APPROVED AND ANY CHANGES UPDATED BEFORE A LICENSE TO OPERATE CAN BE ISSUED.

* * * 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 2/13/2019		VOID		Permit #	108924
Owner Name	Lisa & Jeffrey Barrett	Age	ent Name		
Mailing Address	s 317 Chama Trace	Age	ent Address		
	Dripping Springs, TX 78620	City			
Phone #	512-749-4677		one #		
Email	jeffandlisa.barrett@gmail.com	Em	ail		
All corres	spondence should be sent to: 🔀 Ow	vner 🗌 Agent	Both	Method:	Mail 🗌 Email
Subdivision Na	me Forest View North 2	U	Init	Lot 147	Block
Acreage/Legal	6.2 acres				
Street Name/Ad	ddress 216C Carmel Dr		City Blanco		Zip 78606
Type of Develo	opment:				
🔀 Single Fa	mily Residential				
Type of Co	nstruction (House, Mobile, RV, Etc.)	Mobile Home			
Number of	Bedrooms 3			F	RECEIVED
Indicate Sq	Ft of Living Area 1568	VOID		MA	R 28 2019
Retractional Control of Control o	ial or Institutional Facility				
(Planning mat	terials must show adequate land area for	doubling the require	d land needed for	treatment units a	nd disposal area)
Type of Fa					
Offices, Fa	ctories, Churches, Schools, Parks, Et	tc Indicate Numb	per Of Occupant	s	
Restaurant	s, Lounges, Theaters - Indicate Num	ber of Seats			
	el, Hospital, Nursing Home - Indicate				
	ler/RV Parks - Indicate Number of Sp				
Miscellane					
Estimated Co	ost of Construction: \$	(Structure O	nly)		
Is any portior	of the proposed OSSF located in the	United States Arr	my Corps of Eng	ineers (USACE) flowage easement?
Yes 🛛	No (If yes, owner must provide approval	from USACE for propo	sed OSSF improven	nents within the US	ACE flowage easement)
Source of Wate	er 🔲 Public 🔀 Private Well				
Are Water Savi	ing Devices Being Utilized Within the	Residence? 🔀 🗎	res 🔲 No		
By signing this a	pplication, I certify that: application and all additional information			nformation and d	bes not conceal any material
- Authorization is	hereby given to the permitting authority a		its to enter upon t	ne above describe	ed property for the purpose of
	tion and inspection of private sewage faci at a permit of authorization to construct w		the Floodplain A	dministrator has p	performed the reviews required
by the Comal C	County Flood Damage Prevention				
- I affirmatively c	onsent to the online posting/put lic		ss associated with	n this permit appli	cation, as applicable.
AND	alts		2-3-19	1	
Signature of	Owner		Date		Pare 1 of 2

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

Revited J uly 2018



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MAR 28 2019

WASTEWATER TREATMENT FACILITYY MONITORING AGREEMENT

Regulatory Authority	Permit/License Number	JUNTY ENGINEER
Block Creek Aerobic Services, LLC	Customer server sorrel	JUNIT ENGINEERN
444 A Old Hwy #9	Site Address 216 Carmel Dr	
Comfort, TX 78013	City Blanco Zip 78606	- P T
Off. (830) 995-3189	Mailing Address 317 Chema Trace	Drippin Spring (X
Fax. (830) 995-4051	County Map #	
	Phone 512-743-4677	78620
	Email jeffand Isa. porrette gmail.	com
	J	

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between Deffrey Dorret (hereinafter referred to as "Customer") and Block Creek Aerobic Services, LLC. By this agreement, Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein.

II. Effective Date:

This Agreement commences on

and ends on

for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may of may not commence the same time as any warranty period of installed equipment, but in no case shall it extend the specified warrant of the same time as any warrant period of installed

III. Termination of Agreement:

This Agreement may be terminated by either party for any reason, including for example, substantial failure of either party to perform in accordance with the terms of this Agreement, without fault or liability of the terminating party. The terminating party must provide written notice to the non-terminating party thirty (30) days prior to the termination of this Agreement. If this Agreement is terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any remaining monies from prepayment for services will be refunded to customer within thirty (30) days of termination of this Agreement. Either party terminating this Agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination. Nonpayment of any kind shall be considered breach of contract and a termination of contract.

IV. Services:

Contractor will:

a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: control panel, Electrical circuits, timer, Aeration including compressor and diffusers, CFM/PSI measured, lids safety pans, pump, compressor, sludge levels, and anything else required as per the manufacturer.

b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel.

c. Repair or replace, if Contractor has the necessary materials at site, any component of the OSSF found to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and the service(s) cost less than \$100.00, Customer hereby authorizes Contractor to perform the service(s) and bill Customer for said service(s). When service costs are greater than \$100.00, or if contractor does not have the necessary supplies at the site, Contractor will notify Customer of the required service(s) and the associated cost(s). Customer must notify Contractor of arrangements to affect repair of system with in two (2) business days after said notification.

d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).

e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.

f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

V. Disinfection:

Customer's Initials



Contractor's Initials

OSSF SOIL EVALUATION FORM

Owner's Name: Lisa & Jeffrey Barrett



Physical Address: 216C Carmel Drive

Legal Description: Lot 147, Forest View North 2 - 6.2 acres

Date Performed: 2-27-19

Proposed Excavation Depth: 6"

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-ft. below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
- Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

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Soil Boring Nur	nber: 1					
Depth (ft.)	Textural Class	St uc V O (For class III – blocky, platy or massive)	Water Table)	Restrictive Horizon	Obser GODANYTY ENGINE	Banny b
0 1 2 3 4 5	III	< 30 % gravel	No signs of Mottling	6"	Class III. No shallow groundwater noted. Not suitable for standard disposal. Aerobic surface irrigation recommended.	

Soil Boring Number: 2

Depth (ft.)	Textural Class	Structure (For class III – blocky, platy or massive)	Drainage (Mottles, Water Table)	Restrictive Horizon	Observations
0 1 2 3 4	III	< 30 % gravel	No signs of Mottling	6"	Class III. No shallow groundwater noted. Not suitable for standard disposal. Aerobic surface irrigation recommended.



EL.

Presence of 100 year flood zone Presence of adjacent ponds, streams, water impoundment's Existing or proposed water well in nearby area Organized sewage available to lot or tract Recharge features within 150 feet



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

Signature of Site evaluator

2-27-19



Southwest Septic Design

On-Site Sewage Facility Application and Design



Design 2002619

Prepared By:

Stephen F. Jetton Registered Professional Sanitarian

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Stephen F. Jettor • VOID Design 2573 Deer Stand Loop • San Marcos, Texas E – Mail <u>stephen etton@grande_om.com</u>

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Stephen F. Jetton

Southwest Septic Design

2573 Deer Stand Loop San Marcos, Texas 78666 Hays County

Fax (512) 392-5645 Mobile (512) 757-1259

> Design Report On-Site Sewage facility Aerobic Wastewater Treatment System Utilizing Surface Spray Application

VOID

OWNER/SITE LOCATION:

Lisa & Jeffrey Barrett 216C Carmel Drive Lot 147, Forrest View North 2 Blanco, Texas

SITE DESCRIPTION & EVALUATION

A site evaluation indicated class III soils (sector of participation report). No evidence of shallow groundwater was noted. This proposed VOID in the Edwards Aquifer Recharge Zone, and no recharge features are located within 150 feet of the proposed system. All portions of this proposed OSSF will maintain at least a 10' separation from all water lines. According to the Federal Emergency Management Agency Flood Insurance Rate Map, this tract is not within zone A, 100-year Floodplain (see attached site plan). Minimum separation distances as stated in §285 TCEQ, On-Site Sewage Facilities, must be maintained.

WASTEWATER DESIGN FLOW:

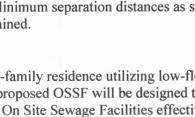
This design is for a 1568 sq. ft., 3-bedroom single-family residence utilizing low-flow fixtures. This site is serviced by a private water well. The proposed OSSF will be designed to accommodate *240 gallons per day*, as per TCEQ, On Site Sewage Facilities effective 12-27-2012.

Please Note that this permit will not be valid if final heated square footage exceeds 2499 sq. ft., and/or 3 bedrooms.

AEROBIC TREATMENT SYSTEM DESCRIPTION:

This residence will utilize a Nuwater Aerobic Treatment Plant, Model B-550-PC-400P. A 353gallon pretreatment/trash tank will precede the 600-gallon per day aerobic treatment tank. Effluent from the aeration tank will flow through a liquid chlorinator (**Model NG 300V 200**) to a 768-gallon pump tank. The pump tank serves as a chlorine contact chamber and a storage tank prior to the treated/chlorinated effluent being discharged to sprinkler heads. The disposal area will consist of 2 - 25ft. 360° radius patterns. The system is considered a "package system", and will be installed according to manufacturer's instructions.

VOID





Registered Sanitarian #3530

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Design Specification:

Size of Residence	Primary Living Area	1568 ft ²	
Number of Bedrooms		3	
Average Expected Flow		240 GPD	
Application Rate	0.064 Gal./ft ² /Day	0.064	
Minimum Application Area	(GPD)/(0.064 Gal./ft ² /Day)	3750.00 ft ²	
Actual Application Area	$3.14(r^2)$ x number of heads	3925.00 ft ²	

System Components:

Trash Tank	353 gallon one-compartment
Aeration Tank	600 gallon per day
Pump Tank	768 gallon

Pump Tank:

Pump Tank gallons per inch: 14.49"

Operating Capacity: 14.49" x 17" = 246.33 op

Reserve Capacity: 53" usable depth (53 x 14.49 = 768.00) 768.00 - 449.19 = 318.8 reserve gallons.

Pump off	13" Above tank floor	188.37 Gallons	
Pump on	14" Above tank floor	202.86 Gallons	
Alarm on	31" Above tank floor	449.19 Gallons	

Combined capacity of pretreatment and aeration tank is 953-gallons. A 768-gallon, singlecompartment pump tank allows for a one-third days flow above the alarm-on level.

Pump and Sprinkler Head Requirements:

Pump: Franklin C1 Series Pump, Model 20C1-05P4-2W115 ½ H.P.

Sprinkler Head: Hunter I20-3RV-2.0LA (equipped with anti-siphon nozzles and purple top).

Nozzle #: **3.0** LA (Low angle trajectory, 11 degrees), operating at 25 psi, 25ft. radius and 2.5 GPM flow per sprinkler.

Dosing:

Application Flow Rate 2.5 gpm/head x 2 heads = 5.0

Application Time: 2 doses @ 120 gal/dose / 5.0 gpm = ~ 24 min/dose





Registered Sanitarian #3530

Head Requirements:



Elevation head: 3 (assumed elevation at top of pump 1185 and highest spray head at 1188) Pressure head: 25 psi x 2.31 ft/psi = 57.75 ft Friction head: 1" Sch. 40 PVC @ 5.0 gpm = 2.13 ft. ($80 \times 2.13/100 \times 1.2$) = 2.04 TDH = 3 ft. + 57.75 ft. + 2.04 ft = 61.79 (within pump curve).

A commercial timer must be set to provide two doses a day, one at 1 a.m. and the other at 4 a.m. An unthreaded sampling valve must also be provided. Under the Texas Administrative Code, §285 On-Site Sewage Facilities, this system must be installed with a night timer, set to spray between the hours of 1 am and 5 am.

Alarm System:

An audio/visual high water alarm will be installed on this system. NuWater control panel (SPI-BIO Model 50B138-AAV-PT) with Timed Control with 24hr timer (Grasslin FM/1 Pin Timer) or equal. The alarm/light will be installed in a pinor of pinor at tion close to the pump tank.



Optional Components:

- 40 PSI Pressure Regulator will be used to maintain the 40 PSI to the sprinkler heads. The installer will consult me or G.P. Equipment when purchasing this device. The pressure reducer will be placed in-line between the pump and the spray heads. Additionally this particular spray head is adjustable to help achieve the required radius.
- Pressure Gauge of not less than 45PSI will be installed to regulate flow to the spray field.

Installation Notes:

- Refer to site plan for component placement and follow manufacturer's instructions for installation of treatment plant and aerator.
- All materials and construction methods are required to conform to the standards for Private Sewage Facility's set forth in the Texas Administrative Code, δ285 On-Site Sewage Facilities.
- The installer must have a current and valid Texas installer certificate, and is required to have at the minimum an Installer II certification.
- The installer must notify designer and regulatory authority at least 48 hours in advance to schedule required inspections to ensure that the system is installed in accordance with the approved plans and specifications.
- The installer may not alter these plans without the approval of the designer.
- Diversion berms will be place when needed to protect irrigation area from excessive runoff.
- All electrical installation must be in compliance with applicable electric codes.
- All outside electrical components must be placed in electrical conduit.
- It is the responsibility of the installer to maintain the minimum setback requirements as stated in §285 for On-Site Sewage Facilities.

Tank Notes:



• The bottom of the excavation for the tanks shall be level and free of large rocks and de



COUNTY ENGINEER

- All tanks are to be set level on a layer, with a minimum thickness of 4 inches, of sand, sandy loam, clay loam, or pea gravel.
- Tank excavations must be backfilled **Work** gravel that is free of rock larger than ¹/₂ inch in diameter. Class IV soils and gravel larger than ¹/₂ inch in diameter are not acceptable for use as backfill material. If the top of a septic tank extends above the ground surface, soil may be mounded over the tank to maintain slope to the drain field.
- Risers are required over all tank openings and must extend to the ground surface.
- Risers shall be permanently fastened to the tank lid.
- The riser lid shall screw down and have a lock or weigh 65lbs.
- A secondary plug, cap, netting, etc. shall be provided below the riser lid.
- All openings in the tank must be properly sealed to prevent the escape of wastewater, or to prevent the infiltration of water.
- Tanks must be filled with water for 24 hours to test for leaks and structural integrity.
- The tanks must be set low enough to have fall of at least 1/8" per foot from house to tank.
- PVC pipe from house to tank must be at least Sch.40 or SDR 26.

Irrigation & Landscaping Notes:

- Irrigation lines shall be 1" Sch.40 PVC Sleeve any pipe that crosses under any roads or driveways with Sch.40 PVC.
- Purple Pipe must be used for all irrigation and the
- Supply lines must be buried at least 6' below finished gride.
- If irrigation area does not have established vegetation, a mixture of winter rye and Bermuda grasses will be seeded to establish seasonal vegetation.
- The installer shall notify property owner prior to removal of any trees that may obstruct the operation of the irrigation system.
- All exposed surface rock must be covered with at least 4" of suitable soil
- Vegetation must be established before system is in use.

Additional Notes:

- Install audio-visual alarm for aerator and pump on separate breakers.
- The high water and air compressor alarms shall be audio/visual and mounted in a place that can be easily seen and heard when the alarms are activated.
- A hose bib must be installed in pump tank at tank inspection port.
- The chlorinator must be constructed to allow a chlorine residual of 1.0 mg/1 in the pump tank for the period of time between scheduled inspections.
- The disinfected effluent must obey the standards as stated in §285, TCEQ, On-Site Sewage Facilities. Approved disinfections methods using chlorinated tablets, must use calcium hypochlorite that is properly labeled for wastewater disinfections.

Maintenance Requirements:

- The applicant must furnish to the regulatory authority a valid maintenance contract with a certified maintenance company before a permit will be issued.
- The maintenance company will verify that the system is operating properly and that the system provide on-going maintenance of the system is operating properly and that the system is operating properly and the system i
- The initial contract will be a minimum
- VOID

• A maintenance contract will a **VOID** system as needed.

enance Company to maintain and repair the

• The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Affidavit:

- The applicant must file a certified copy of an affidavit at the County clerk's office and filed in reference to the real property deed on which the surface application system is the be installed.
- The affidavit will state that the property shall not be transferred to a new owner without:
 - (1) The new owner being advised that the property contains a surface application system for RECEIVED wastewater disposal;
 - (2) The permit issued to the previous over the property being transferred to the new owner in accordance with §2 **VOUD** EQ OSSF Rules, i.e.; the permit will be issued in the name of the owner of the OSSF. The transferred to the newCOUNTY ENGINEER this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF had been severed from the property.
 - (3) The new owners submitting a valid maintenance contract to the permitting authority.

Operation and Management Notes:

- The OSSF should not be treated as a normal city sewer.
- Water conservation practices should be used at all times. Consult your local authorities for more information.
- Run the dishwasher with a full load whenever possible
- Avoid running water continuously when brushing teeth, washing hands, or cleaning food and utensils.
- Repair any water leaks immediately, such as running toilets or leaky faucets.
- The owner is responsible for cleaning and pumping the septic tank, typically every 2 to 3 years depending on system usage.
- Do not use the toilet to dispose of tissue, feminine hygiene products, trash, cigarettes, etc.
- It is recommended that you do not use the garbage disposal and/ or garbage grinders in the facility serviced by this system.
- Household chemicals should be used in moderation.
- According to §285, no water softener will be allowed to enter the OSSF.
- Chemical additives or the so-called enzymes should not be used during the operation of this system. Some of these additives may even be harmful to the facilities operation.
- Do not build driveways, storage buildings, decks, or other structures over the tank or disposal area.
- The OSSF must be protected from coming in contact with vehicular traffic.
- A strong vegetative cover is essential for the proper operation of this system. The property owner is solely responsible for maintaining this vegetation. The irrigation area should be groomed by mowing on a regular basis.
- If you notice a problem with the spray patterns, or any your maintenance provider immediately VOID
 Never place a greater wastewater load ov VOID
- Never place a greater wastewater loa the system (240 gallons per day).

an that prescribed by the design

f the alarms are activated cont

*The proposed system has been designed voil wing the minimum requirements under TCEQ §285 On Site Sewage Facilities. The site evaluation and subsequent design are based on technical information currently available. The performance of the OSSF is not, and cannot be guaranteed even though all provisions of the Standards have been complied with. If failure should occur, additions to the OSSF may have to be made. In extreme cases a substitute system may be required. By accepting this design, the homeowner/contractor understands the aforementioned conditions, and agrees that the designer will not be liable for any more than the agreed upon design

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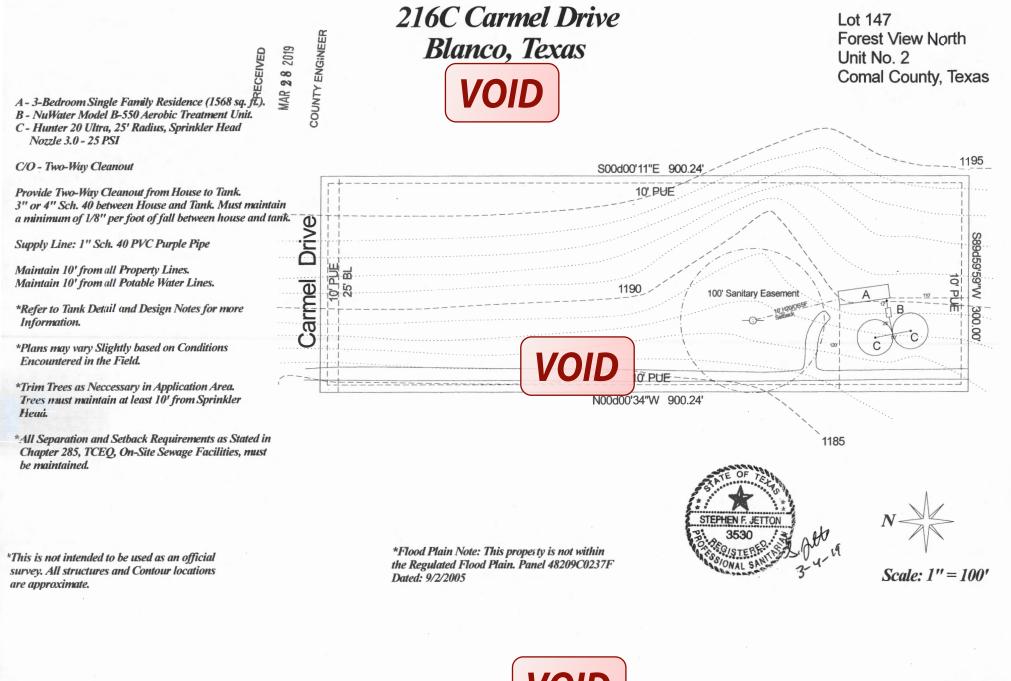
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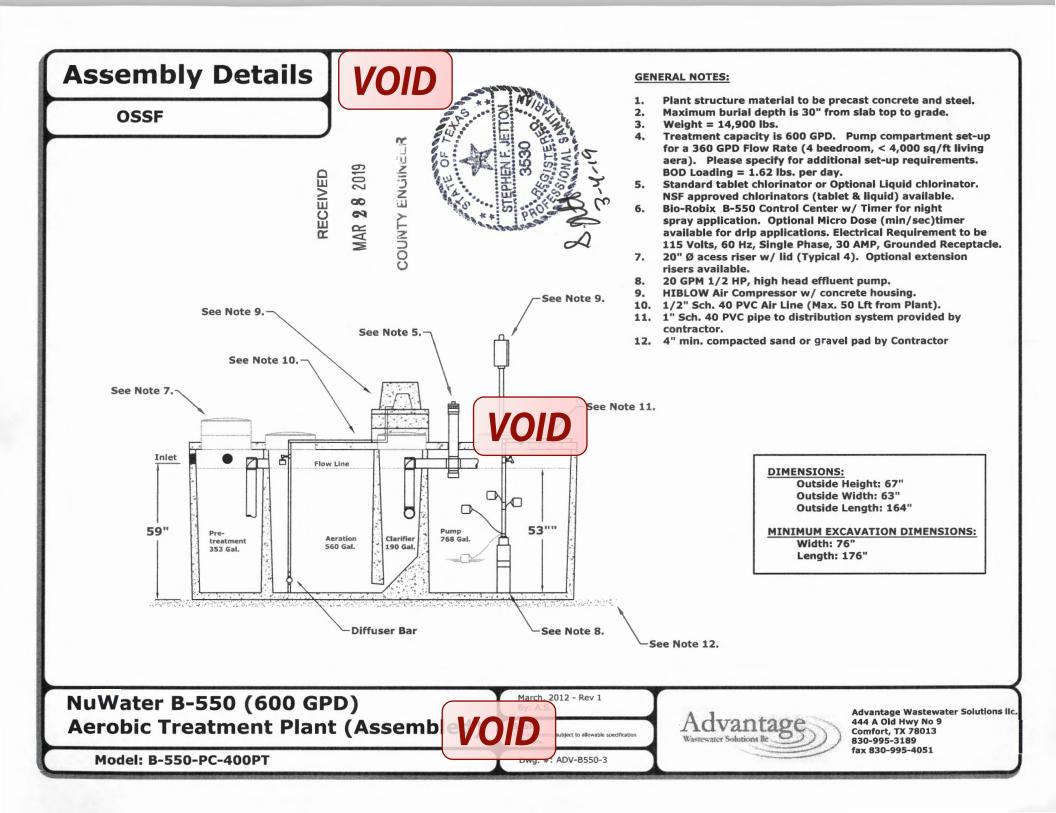
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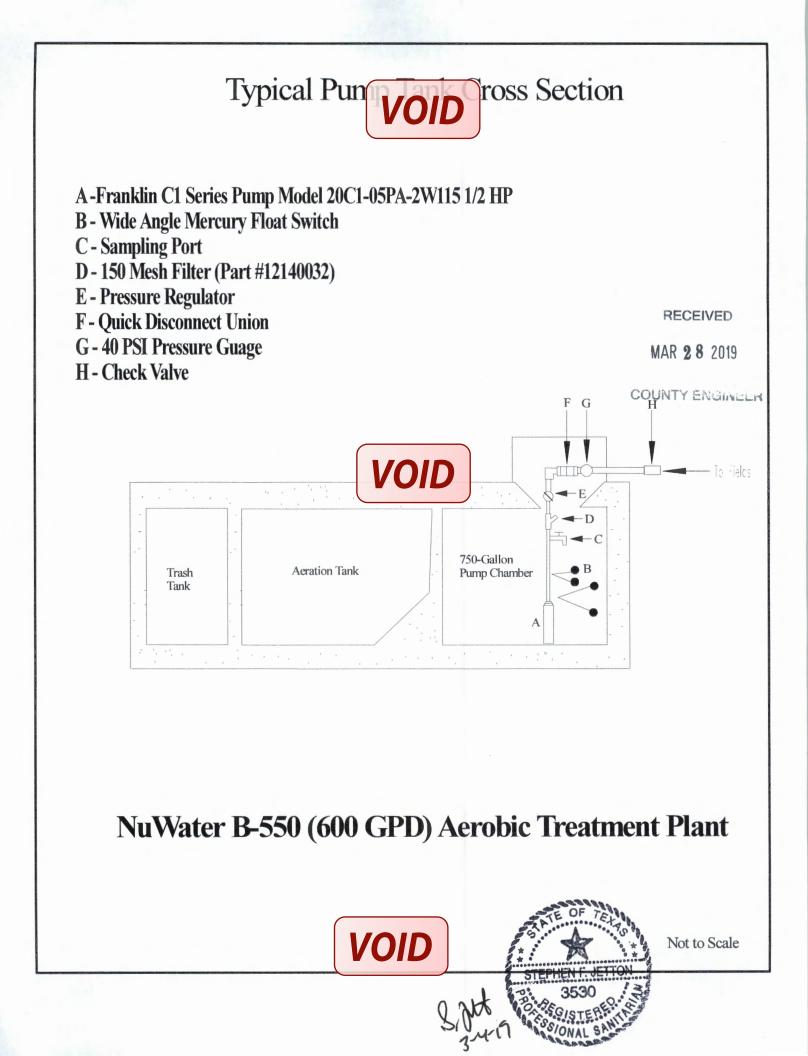












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-BV Warranty Deed with Vendor's Lien

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Notice of confidentiality rights: If you are a natural person, you may remove or strike any or all of the following information from any instrument that transfers an interest in real property before it is filed for record in the public records: your Social Security number or your driver's license number.

Date: May Q4, 2018

Grantor: Kandee Jo Walker as successor Trustee of the The Fredricksen Family Trust and Kandee Jo Walker, as Independent Executrix of the Estate of Joseph R. Fredricksen, Deceased under Probate Cause No. 2016PCB0403, Comal County, Texas

Grantor's Mailing Address: 805 Secretariat Drive, Schertz, Texas 78108

Grantee: Lisa F. Barrett and husband, Jeffrey L. Barrett

Grantee's Mailing Address: 317 Chama Trace, Dripping Spring, Texas 78620

Consideration:

Cash and other good and valuable consideration along with a note of even date executed by Grantee and payable to the order of Lone Star Capital Bank, N.A. in the principal amount of \$60,000.00 (Sixty Thousand and 00/100 Dollars). The note is secured by a first and superior vendor's lien and superior title retained in this deed in favor of Lone Star Capital Bank, N.A. and by a first-lien deed of trust of even date from Grantee to Danny L Buck, trustee.

Property (including any improvements):

Lot 147, Forest View North Unit No. 2, an Addition in Comal County, Texas, according to the Map or Plat recorded in Volume 3, Page 72, Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None

Exceptions to Conveyance and Warranty:

This conveyance, however, is made and accepted subject to any and all restrictions, encumbrances, easements, covenants and conditions, if any, relating to the hereinabove described property as the same are filed for record in the County Clerk's Office of Comal County, Texas.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the

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Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as MAR the 2019 Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

The vendor's lien against and superior title to the Property are retained until each not COUNTY ENGINEER is fully paid according to its terms, at which time this deed will become absolute. The Vendor's Lien and Superior Title herein retained are hereby transferred, assigned, sold and conveyed to Lone Star Capital Bank, N.A. the payee of such Note, and the successors and assigns of such payee.

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

EXECUTED this Q4 day of May, 2018.

Kandee Jo Walker as successor Trustee of the The Fredricksen Family Trust and Kandee Jo Walker, as Independent Executrix of the Estate of Joseph R. Fredricksen, Deceased under Probate Cause No. 2016PCB0403, Comal County, Texas

By: Kandee Jo Walker, Independent Executor THE STATE OF

The foregoing instrument was acknowledged before me on the 24 day of May, 2018 by Kandee Jo Walker as successor Trustee of the The Fredricksen Family Trust and Kandee Jo Walker, as Independent Executrix of the Estate of Joseph R. Fredricksen, Deceased under Probate Cause No. 2016PCB0403, Comal County, Texas.



COUNTY OF

AFTER RECORDING, RETURN TO: nama (ra

OF

PREPARED IN THE LAW OFFICE OF Shaddock & Associates, P. C. 2400 N. Dallas Parkway, Ste. 560 Plano, Texas 75093 Filed and Recorded Official Public Pacords

Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 05/29/2018 09:12:15 AM LAURA 2 Pages(s) 201806020572



Block Creek Concrete Products, LLC 444 A Old Hwy No 9 Comfort, TX 78013

Phone: (830) 995-3189 Fax: (830) 995-4051

To: Jeff & Lisa Barrett Printed:2/10/2020 Site: 171 Barrett View **171 Barrett View** Blanco, TX 78606 Blanco, TX 78606 (512) 743-4677 Customer ID: 6780 Permit #: 108924 Contract Dates: 10/16/2019 - 10/16/2021 Agency: Comail County Scheduled Date: 2/16/2020 Inspection 1 of 6 County: Elanco Sub. Installed: 5/15/2019 Mfg / Erancl: Advantage Wastewater LLC - Nu Water Treatment Type: Aerobic With Chlorine System S/N: B35577 Warranty End: 5/15/2021 **Disposal:** Surface Application GFS Coordinates - Latitude: 30.01718 Longitude: -98.30508 This counts as a type of "Scheduled Inspection" Service Type: Scheduled Inspection Entered By: Jose Luis Ramos Visit Date: 2/10/2020 Time In: 2:50pm Out: 3:05 pm Method: Grab Technician: Jose Luis Ramos Maint, Provider: Rudy Carson Aerators: Operational Sludge Levels Filters: Operational For Tank 1: 4" For Tank 2: 0" Irrigation Pumps: Operational For Tank 3: 0" Disinfection Device: Operational Chorine Supply: Operational CFM: 2.6 Chlorine Residual: .45 Air Filter: Good Tank Lid / Riser: Secured Electri c Circuits: Operational Distribution System: Operational Color: Good Sprayfield Veg: Operational Odor: Good PSI Pressure: 3.2 Alarm: Operational Service Completed Commerts - Techncian Secured the Tank Lid and/or Riser prior to leaving location. - Scum in pretreatment is trace. - Cleaned compressor filter. - Secu red system in the on position with a lock bolt. nsp ID #:89653 Provider: Rudy Carson Technciain: Jose Luis Ramos License#: N IP0002036 Liense #: MTD001770 Expires: 9/30/2022 neok

Rudy Carson

Block Creek Concrete Products, LLC 444 A Old Hwy No 9 Comfort, TX 78013

Phone: (830) 995-3189 Fax: (830) 995-4051

To: Jeff & Lisa Barrett Printed:10/1/2020 171 Barrett View Site: 171 Barrett View Blanco, TX 78606 Blanco, TX 78606 (512) 743-4677 Customer ID: 6780 Permit #: 108924 Contract Dates: 10/16/2019 - 10/16/2021 Agency: Comal County County: Blanco Scheduled Date: 10/16/2020 Sub: Inspection 3 of 6 Mfg / Brand: Advantage Wastewater LLC - Nu Water Installed: 5/15/2019 Treatment Type: Aerobic With Chlorine System S/N: B35577 Warranty End: 5/15/2021 Disposal: Surface Application GPS Coordinates - Latitude: 30.01718 Longitude: -98.30508 This counts as a type of "Scheduled Inspection" Service Type: Scheduled Inspection Entered By: Ronnie W Krampota Visit Date: 10/1/2020 Time In: 4:20pm Out: 4:35pm Method: Grab Technician: Ronnie W Krampota Maint. Provider: Rudy Carson Aerators: Operational Sludge Levels Filters: Operational For Tank 1: 5 Irrigation Pumps: Operational For Tank 2:8 Disinfection Device: Operational For Tank 3: 0" Chlorine Supply: Operational Chlorine Residual: 0.43mg/L Tank Lid / Riser: Secured Electric Circuits: Operational Distribution System: Operational Color: Good Sprayfield Veg: Operational Odor: Good Alarm: Operational Comments Service Completed - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Secured system in the on position with a lock bolt -Checked sprinklers - Reset timer - Customer needs to add bleach its low - Scum in pretreatment is 3" Insp ID #:99389 Provider: Rudy Carson Technician: Ronnie W Krampota License #: MP0002036 License #: MT0001175 Expires: 7/31/2023

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Rudy Carson

Block Creek Concrete Products, LLC 444 A Old Hwy No 9 Comfort, TX 78013

Phone: (830) 995-3189 Fax: (830) 995-4051

To: Jeff & Lisa Barrett Printed:6/30/2021 Site: 171 Barrett View **171 Barrett View** Blanco, TX 78606 Blanco, TX 78606 (512) 743-4677 Customer ID: 6780 Permit #: 108924 Contract Dates: 10/16/2019 - 10/16/2021 Agency: Comal County Scheduled Date: 6/16/2021 Inspection 5 of 6 County: Blanco Sub: Installed: 5/15/2019 Mfg / Brand: Advantage Wastewater LLC - Nu Water Treatment Type: Aerobic With Chlorine System S/N: B35577 Warranty End: 5/15/2021 Disposal: Surface Application GPS Coordinates - Latitude: 30.01718 Longitude: -98.30508 This counts as a type of "Scheduled Inspection" Service Type: Scheduled Inspection Entered By: Ronnie W Krampota Visit Date: 6/30/2021 Time In: 3:20pm Out: 3:35pm Method: Grab Technician: Ronnie W Krampota Maint. Provider: Rudy Carson Aerators: Operational Sludge Levels For Tank 1: 11 Filters: Operational For Tank 2: 18 Irrigation Pumps: Operational For Tank 3: 0" Disinfection Device: Operational Chlorine Supply: Operational CFM: 2.8 Chlorine Residual: 0.30mg/L Air Filter: Good Tank Lid / Riser: Secured Electric Circuits: Operational Distribution System: Operational Color: Good Sprayfield Veg: Operational Odor: Good PSI Pressure: 3.4 Alarm: Operational Comments Service Completed - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Secured system in the on position with a lock bolt -Checked sprinklers - Reset timer - Scum in pretreatment is trace - Cleaned compressor filter - Customer needs to add bleach Insp ID #:110827



Technician: Ronnie W Krampota

License #: MT0001175

Expires: 7/31/2023

License #: MP0002036