

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

Issued This Date:

07/05/2023

Permit Number:

115830

Location Description:

608 LUEHLFING DR

CANYON LAKE, TX 78133

Subdivision:

THE OAKS

Unit:

2

Lot:

9T (pt)

Block:

0

Acreage:

0.0000

Type of System:

Aerobic

**Drip Irrigation** 

Issued to:

DONELL L. MARKS

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

15 cm ( 0500301

ENVIRONMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEALTH COORDINATOR

# **Comal County Environmental Health OSSF Inspection Sheet**

staller Name:	OSSF Installer #:	
1st Inspection Date:	2nd Inspection Date:	3rd Inspection Date:
Inspector Name:	Inspector Name:	Inspector Name:

Perm	it#:		Address:				
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)				
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)				
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(G)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

**Inspector Notes:** 

# Comal County Environmental Health OSSF Inspection Sheet

			2331 1113	pection Sheet			
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and " T " Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum 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) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1)(C) (i)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)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)				
	SEPTIC TANK Secondary restraint system providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed						
	PUMP TANK Volume Installed						
	AEROBIC TREATMENT UNIT Size Installed						
	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
18							

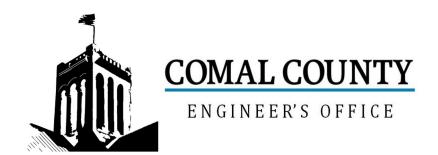
6/27/23 CA: Water line in front needs to be exposed and sleeved tightline between houses is not sleeved water line between houses is in same trench as tightline system is covered need re inspection fee. Need pump receipt

# Comal County Environmental Health OSSF Inspection Sheet

No.	Docorintian	Answer	Citations	Notes	1ct lease	2nd Inco	2rd Inco
NO.	Description  EFFLUENT DISPOSAL SYSTEM Utilized	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	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)				
	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						
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	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 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						
38	PUMP TANK Secondary restraint system provided						
	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						

# Comal County Environmental Health OSSF Inspection Sheet

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



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

Permit Number: 115830

Issued This Date: 03/06/2023

This permit is hereby given to: DONELL L. MARKS

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

608 LUEHLFING DR

CANYON LAKE, TX 78133

Subdivision: THE OAKS

Unit: 2

Lot: 9T (pt)

Block: 0

Acreage: 0.0000

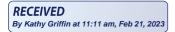
#### APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

**Drip Irrigation** 

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

Call (830) 608-2090 to schedule inspections.





# **OSSF DEVELOPMENT APPLICATION**

COMA	L COUNTY		CHECK	L13 I
	EER'S OFFICE	Staf	f will complete	shaded items
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			115830
		Date Received	Initials	Permit Number
nstructions:				
Place a check mark next to a Checklist <u>must</u> accompany t		ns that do not apply, plac	e "N/A". This (	DSSF Development Application
mookist <u>mast</u> accompany to	по сотрыеса аррисанет			
DSSF Permit				
Completed Application 1	for Permit for Authorization	ı to Construct an On-Site	Sewage Facili	ty and License to Operate
Site/Soil Evaluation Cor	npleted by a Certified Site	Evaluator or a Professio	nal Engineer	
	e OSSF as Required by th all system specifications.	e TCEQ Rules for OSSF	Chapter 285.	Planning Materials shall consist
Required Permit Fee - S	See Attached Fee Schedul	е		
Copy of Recorded Deed	i			
Surface Application/Aer	obic Treatment System			
Recorded Certific	ation of OSSF Requiring N	faintenance/Affidavit to t	he Public	
Signed Maintenar	nce Contract with Effective	Date as Issuance of Lice	ense to Operat	e
- 650 mm - 41 - 4 - 1 - 1 - 1			4 A 11 4	
aπirm that I have provided constitutes a completed OS			ment Applicat	ion and that this application
	8	02	2/10/20	23
Signature	of Applicant			Date
COMPLE	TE APPLICATION		INCOMPLE	TE APPLICATION
Check No.	Receipt No.	(Mi		cled, Application Refeused)

Revised: September 2019

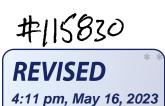




## **ON-SITE SEWAGE FACILITY APPLICATION**

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 WWW.CCEO.ORG

Date Jai	nuary 16, 2023		Permit N	umber	115830
	AGENT INFORMATION				
Owner Name	DONELL L. MARKS	Agent Name		GREG JOH	NSON, P.E.
Mailing Address	608 LUEHLFING DR	Agent Address		170 HOLL	OW OAK
City, State, Zip	CANYON LAKE, TX 78133	City, State, Zip	NEW	BRAUNFE	LS TEXAS 78132
Phone #	713-922-1795	Phone #		830-90	5-2778
Email	donellsdesigns@yahoo.com	Email	gı	regjohnsonpe	e@yahoo.com
2. LOCATION		-			
Subdivision Nam	ne THE OAKS	Ur	nit2	Lot 9T S	W PT Block
	Abstract Number				
	608 LUEHLFING DRIVE		N LAKE		TX Zip 78133
3. TYPE OF DEV	/ELOPMENT				
Single Fam	nily Residential				
Type of Co	onstruction (House, Mobile, RV, Etc.)	EXISTING HOUS	E+Deta	ched livi	ng
	f Bedrooms 2+1				
Indicate So	q Ft of Living Area 1556+408				
	Family Residential				
(Planning m	aterials must show adequate land area for doubling	ng the required land need	ed for treatn	nent units and	d disposal area)
Type of Fa	acility				
	actories, Churches, Schools, Parks, Etc Ind		pants		
	ts, Lounges, Theaters - Indicate Number of S		-		
	el, Hospital, Nursing Home - Indicate Numbe				
	iler/RV Parks - Indicate Number of Spaces				
Miscellane					
Estimated Cos	et of Construction: \$ EXSTING	(Structure Only)			
	of the proposed OSSF located in the United	States Army Corps of I	Engineers (	USACE) flo	wage easement?
et market	No (If yes, owner must provide approval from USACE	The state of the s		Cra-c-ocid-visioscale leader	
	er Public Private Well Rainwat				,
4. SIGNATURE					
By signing this app - The completed ap facts. I certify tha	olication, I certify that: oplication and all additional information submitted at I am the property owner or I possess the approp				
site/soil evaluatio	nereby given to the permitting authority and design on and inspection of private sewage facilities				
by the Comal Cor	a permit of authorization to construct will not be is unty Flood Damage Prevention Order. asent to the online posting/public release of my e-n	nail address associated w	vith this pern	nit application	
Signature of O	UV V ()		1202	<i>)</i>	D4
Signature of O	WITEI	Date			Page 1 of :



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

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

Planning Materials & Site Evaluation as Required Comp	leted By GREG W.	JOHNSON, P.E.	<u>.</u>
System Description PROPRIETARY	; AEROBIC TREATI	MENT AND DRIP TUBIN	4G
Size of Septic System Required Based on Planning Mate	rials & Soil Evaluation	1	
Tank Size(s) (Gallons) FUJI CE-5 500 GPD / 500 PUMP	Absorption/Applica	tion Area (Sq Ft)	2000
Gallons Per Day (As Per TCEQ Table III) 240 (Sites generating more than 5000 gallons per day are required	to obtain a permit throu	gh TCEQ)	
Is the property located over the Edwards Recharge Zone (If yes, the planning materials must be completed by a Registe		Professional Engineer (P.E.	.))
Is there an existing TCEQ approved WPAP for the prope			
(if yes, the R. S. or P. E. shall certify that the OSSF design com	plies with all provisions of	of the existing WPAP.)	
If there is no existing WPAP, does the proposed develop			
(If yes, the R.S. or P. E. shall certify that the OSSF design will not be issued for the proposed OSSF until the proposed WPAF	comply with all provision has been approved by	s of the proposed WPAP. A the appropriate regional off	Nermit to Construct will ice.)
Is the property located over the Edwards Contributing Zo	one? 🛛 Yes 🔲 No		
is there an existing TCEQ approval CZP for the property (if yes, the P.E. or R.S. shall certify that the OSSF design com		of the existing CZP)	
If there is no existing CZP, does the proposed developm (if yes, the P.E. or R.S. shall certify that the OSSF design will c not be issued for the proposed OSSF until the CZP has been	omply with all provisions	of the proposed CZP. A Per	
Is this property within an incorporated city?	∕es ⊠ No	ANTE OF TEX	A.
If yes, indicate the city:		GREG W. JOHNSON	
		FIR	RM #2585
By signing this application, I certify that:  - The information provided above is true and correct to the best - I affirmatively consent to the online posting/public release of my		ed with this permit application	on, as applicable
	0	1/18/2023	
Signature of Designe	Date		Page 2 of 2

Bobbie Koepp

#### **AFFIDAVIT**

# THE COUNTY OF COMAL STATE OF TEXAS

### CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

T

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

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

2	UNIT PHASE/SECTION BLOCK9T/1	LOT	THE OAKS	SUBDIVISION
IF N	NOT IN SUBDIVISION: ACREAGE			SURVEY
	The property is owned by (insert owner's full	name):	DONE	ELL L. MARKS
	This OSSF must be covered by a continuous at the initial two-year service policy, the owner or residence shall either obtain a maintenance copersonally.	f an aerobic trea	atment system for a single f	amily
	Upon sale or transfer of the above-described p transferred to the buyer or new owner. A copy obtained from the Comal County Engineer's Of	of the planning	g materials for the OSSF c	an be
	WITNESS BY HAND(S) ON THIS 15 DAY	or Febr	rugry ,20 23	
	X DYWWYO X		IELL L. MARKS	
	Owner(s) signature(s)  DONEU L. MARKS SWORT	• • •	Printed name (s) SCRIBED BEFORE ME O	N THIS_15 DAY OF
	February ,20 23			
	Notary Public Signature			l Recorded Public Records
	GREG W. JOHNSON			Koepp, County Clerk Jounty, Texas
	Notary Public, State of Taxes Comm. Expires 05-17-2020		02/16/202	23 12:07:50 PM
	Matery ID 124218810		20230600	1 Pages(s) 04908

### GRUENE AEROBIC SERVICES 420 Bear Creek Dr. New

Braunfels, TX 78132 (830) 387-0550

THE OAKS, U NIT 2, LOT 9T SW PT 608 LUEHLFING DRIVE CANYON LAKE, TX 78133

### grueneaerobicservices@gmail.com

INITIAL
TWO YEAR SERVICE POLICY

•	, for the period of <i>Two (2)</i> year
	and ending
effluent quality, color, turbidity, odor, sludge and scum	every <b>FOUR</b> (4) months. We will visually inspect the treatment plant, buildup. A mechanical visual inspection will include, aerator, irrigation trol conditions. We will also visually inspect the irrigation pump station, is and appurtenances.
the system; failure to maintain electrical power to syste disposal of non biodegradable materials (i.e. baby wipe oil, paint, etc.; or any usage contrary to the requiremen representative. All testing and reporting is required by_Copies of this contract and all reports will be submitted inspection between the hours of 8AM and 4PM, Monda	I to the County. ** The system must be accessible at the time of the ay thru Friday. There will be an extra charge for special appointments. when when the special is the system of the service calls will be within TWO (2) work
Owner Signature and Date	<u> </u>
Maintenance Operator	
Maintenance Operator's License No. MP0001745	
Plant Make, Model and Serial No. NUWATER B-550-	PC
Owner Contact Phone Number and Email	
113-922-1795 donells	designseyahoo.com

# THE COUNTY OF COMAL STATE OF TEXAS

## **CERTIFICATION OF SINGLE FAMILY DWELLING**

According to Texas Commission of Environmental Quality Rules for On-Site Sewage Facilities, this document is filed in the Deed Records of **COMAL COUNTY**, **TEXAS**.

		ELL L.		
Before me this day appeared	MARKS	, being t	he owners of the	referenced property at
Before me this day appeared 608 LUEHLFING living space on this property will be	OCCUPIED ONLY by a sing	le family.	hat the Residence	e and any additional
An OSSF requiring a Certification of	of Single Family Dwellin	ng, will be installed	on the property de	escribed as:
BLOCK	<u>9T(pt)</u> LOT _	тне о	AKS	SUBDIVISION
IF NOT IN SUBDIVISION:	_ ACREAGE			SURVEY
The property is owned by		DONELI	L. MARKS	
WITNESS MY HAND ON THIS	<u>5</u> of day of	JANUARY	, 2023	
OWNER (SIGNATURE) SWORN TO AND SUBSCRIBED I	OWN  BEFORE ME ON THIS	ER (SIGNATURE)  DAY OF	February JANUARY	, 20 <u>23</u> BY
OWNER NAME (PRINTED)		DONELL L. MA	RKS	
Notary Public Signature	<u>-</u>		_ (*	
GREG W. JOHNSON Notary Public, State of Texas Comm. Expires 05-17-2026				

(Notary Seal)

Notary ID 124218310

# ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	January 17, 2023	
Site Location:	The OAKS, UNIT 2, LOT 9T (Southwest Part)	
Proposed Excavation Depth:	N/A	
Requirements:		
At least two soil excava	tions must be performed on the site, at opposite ends of the proposed dispos	al area.
Locations of soil boring	or dug pits must be shown on the site drawing.	
For subsurface disposal,	, soil evaluations must be performed to a depth of at least two feet below the	}

proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

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

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
8"	Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 8"	BROWN

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

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

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

Date

Applicant Information:	Site Evaluator Information:		
Name: DONELL L. MARKS	Name: Greg W. Johnson, P.E., R.S, S.E. 11561		
	Address: 170 Hollow (	Oak	
Address: State:TEXAS	City: New Braunfels	State: Texas	
Zip Code: Phone:(713) 922-1795	Zip Code: <u>78132</u> Ph	one & Fax (830)905-2778	
Property Location:	Installer Informat	ion:	
Lot szz Unit 2 Blk Subd. The OAKS	Name:		
Street Address: 608 LUEHLFING DRIVE	Company:		
City: CANYON LAKE Zip Code: 7813	3 Address:		
Additional Info.: LOT 9T (Southwest Part)	City:	State:	
		Phone	
Presence of 100 yr. Flood Zone: Existing or proposed water well in nearby area.	YES NO X YES NO X		
Existing or proposed water well in nearby area.  Presence of adjacent ponds, streams, water impoundments  Presence of upper water shed	YES NO X YES NO X YES NO X		
Existing or proposed water well in nearby area.  Presence of adjacent ponds, streams, water impoundments  Presence of upper water shed	YES NO X YES NO X YES NO X		
Existing or proposed water well in nearby area.  Presence of adjacent ponds, streams, water impoundments  Presence of upper water shed	YES NO X YES NO X YES NO X		
Existing or proposed water well in nearby area.  Presence of adjacent ponds, streams, water impoundments Presence of upper water shed	YES NO X YES NO X YES NO X		
Existing or proposed water well in nearby area.  Presence of adjacent ponds, streams, water impoundments Presence of upper water shed	YES NO X YES NO X YES NO X		

I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (EFFECTIVE DECEMBER 29, 2016).

GREG W. JOHNSON P.E. 67587 - S.E. 11561

01/18/2023

GREG W. JOHNSON

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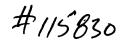
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FIRM #2585





AEROBIC TREATMENT DRIP TUBING SYSTEM DESIGNED FOR: DONELL L. MARKS 608 LUEHLFING DRIVE CANYON LAKE, TX 78133

#### **SITE DESCRIPTION:**

Located in The Oak Unit 2, Lot 9T SW Part, at 608 Luehlfing Drive, the proposed system will serve an existing two bedroom residence (1556sf.) and a one bedroom detached living (408 sf), situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

#### **PROPOSED SYSTEM:**

A 3 or 4-inch SCH-40 pipe discharges from the residence into a Fuji CE500 500gpd aerobic plant. Additionally, a 3-inch SCH-40 pipe discharges from the detached living and joins flow from the residence to the aerobic plant containing a 198-gallon pretreatment tank, an aerobic treatment plant, and a 500-gallon pump tank containing a submersible (Franklin C1 20XC1-05P4-W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 2000 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the disc filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 4" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). A minimum of 12" of soil required between tank and drip tubing. The field area will be sodded with grass prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.



#### **DESIGN SPECIFICATIONS:**

Daily waste flow: 240 GPD Table III Pretreatment tank size: 198 Gal

Plant Size: Fuji CE5 500 gpd (TCEQ Approved)

Pump tank size: 500 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.)

Total linear feet drip tubing: 1000' Netifim Bioline drip tubing .61 GPH

Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833gpm

Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$ 

MSV = 2(3.14159((.55/12)†2)/4)\*7.48\*60

MSV = 1.5 gpm PER LINE \* 3 LINES = 4.5 GPM MIN FLOW RATE

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$ 

 $MSV = 2(3.14159((1.049/12) \uparrow 2)/4)*7.48*60$ 

MSV = 5.4 GPM

#### **PIPE AND FITTINGS:**

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

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29,2016)

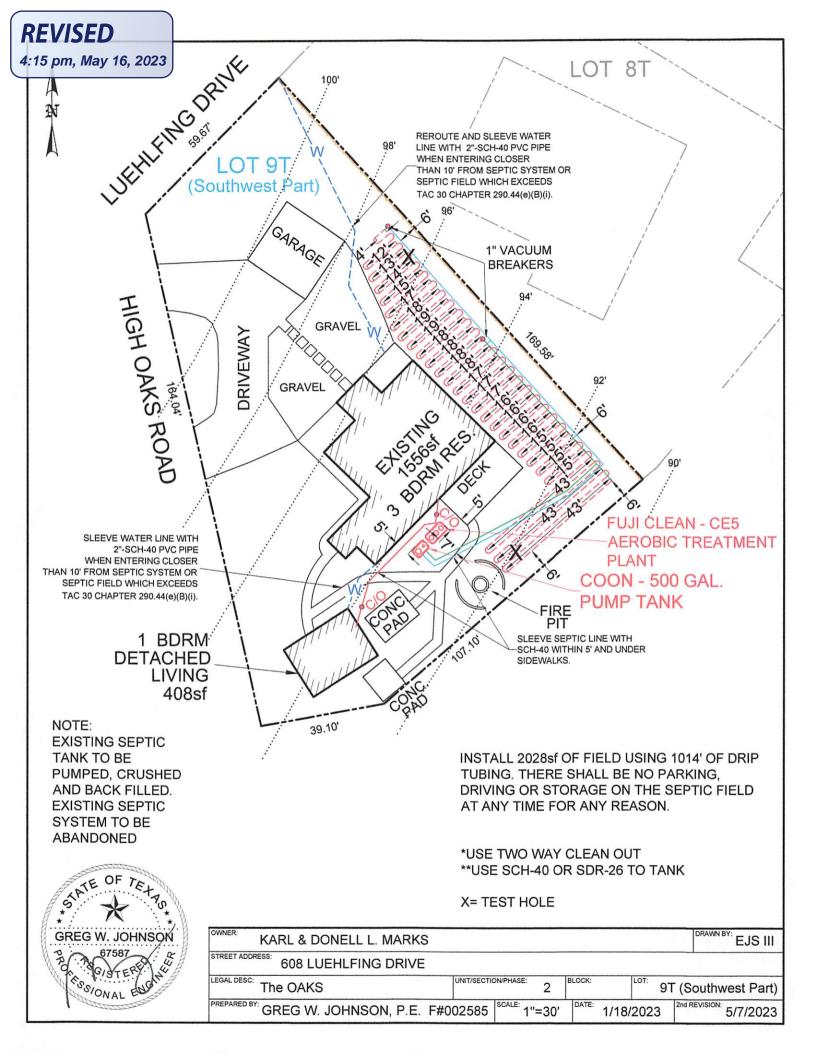
Greg W. Johnson, P.E. 'No. 67587 / F-2585

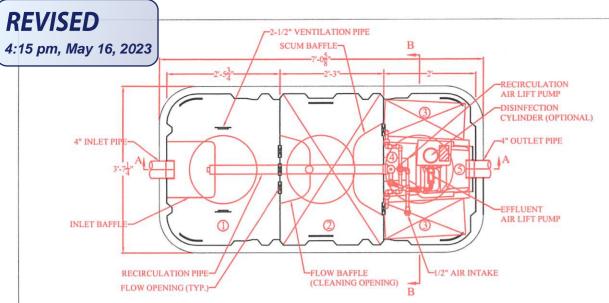
170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778

Page 2 of 2

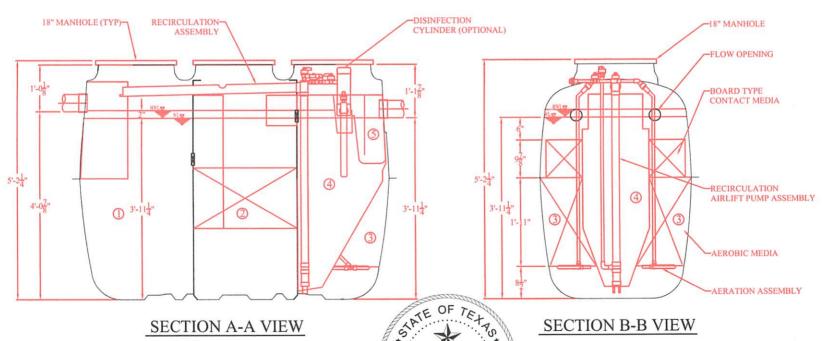




	CHAMBER	Volume (gal)
1	Sedimentation Chamber	198
2	Anaerobic Filtration Chamber	198
3	Aerobic Contact Filtration Chamber	95
4	Storage Chamber	44
3	Disinfection Chamber	4
	Total Volume	540

SPEC	CIFICATIONS			
Anaerobic Media	PP / PE	Filling Rate	31%	
Board Type Aerobic Media	PVC / PP / PE	Filling Rate	16%	
Aerobic Media	PP / PE	Filling Rate	55%	
Blower	2.8 cfm			
Tank	FRP			
Piping	PVC / PP / PE			
Access Covers	Plastic / Cast Iron			
Disinfectant (Optional)	Chlorine Tablets			

## PLAN VIEW



GREG W. JOHNSON

SECTION A-A VIEW

SECTION B-B VIEW



CE-5 Structural Drawing

DATE: 03/21/2014 SCALE: 1/2" = 1"



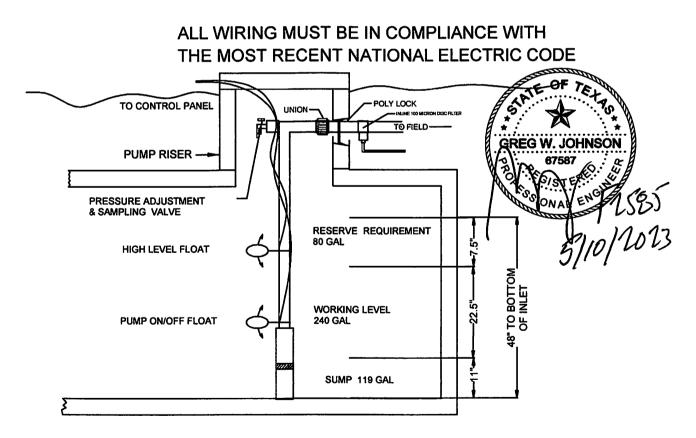
## **TANK NOTES:**

Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks



TYPICAL PUMP TANK CONFIGURATION 500 GAL PUMP TANK - 11 gal/in.

# **Arkal 1" Super Filter**

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

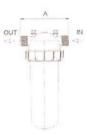
#### Features

- . A "T" shaped filter with two 1" male threads.
- A "T" volume filter for in-line installation on 1" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- · Manufactured entirely from fiber reinforced plastic.
- A cylindrical column of grooved discs constitutes the filter element.
- Spring keeps the discs compressed.
- Screw-on filter cover.
- Filter discs are available in various filtration grades.



#### **Technical Data**

	1" BSPT (male)	1" NPT (male)	
Inlet/outlet diameter	25.0 mm - nominal diameter		
	33.6 mm – pipe diameter (O. D.)		
Maximum pressure	10 atm	145 psi	
Maximum flow rate	8 m³/h (1.7 l/sec)	35 gpm	
General filtration area	500 cm <sup>2</sup>	77.5 in <sup>2</sup>	
Filtration volume	600 cm <sup>3</sup>	37 in <sup>3</sup>	
Filter length L	340 mm	13 13/32"	
Filter width W	130 mm	5 3/32"	
Distance between end connections A	158 mm	6 7/32"	
Weight	1.420 kg	3.13 lbs.	
Maximum temperature	70° C	158 °F	
рН	5-11	5-11	





#### Filtration Grades

Blue (400 micron / 40 mesh)

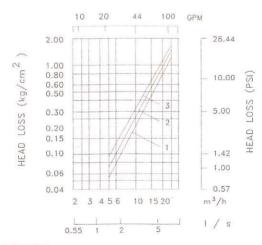
Yellow (200 micron / 80 mesh)

Red (130 micron / 120 mesh)

Black (100 micron /140 mesh)

Green (55 micron)

#### Head Loss Chart





# PMR-MF

#### PRESSURE-MASTER REGULATOR - MEDIUM FLOW

### Specifications

The pressure regulator shall be capable of operating at a constant, factory preset, non-adjustable outlet pressure of 6, 10, 12, 15, 20, 25, 30, 35, 40, 50, or 60 PSI (0.41, 0.69, 0.83, 1.03, 1.38, 1.72, 2.07, 2.41, 2.76, 3.45, or 4.14 bar) with a flow range between:

4 - 16 GPM (909 - 3634 L/hr) for 6 - 10 PSI models or

2 - 20 GPM (454 - 4542 L/hr) for 12 - 60 PSI models.

The pressure regulator shall maintain the nominal pressure at a minimum of 5 PSI (0.34 bar) above model inlet pressure and a maximum of 80 PSI (5.52 bar) above nominal model pressure\*. Refer to the PRU performance curve to establish specific outlet pressures based on relative inlet pressure and flow rate. Always install downstream from all shut off valves. Recommended for outdoor use only. Not NSF certified.

All pressure regulator models shall be equipped with one of these inlet-x-outlet configurations:

Inlet

3/4-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

1-inch Female British Standard Pipe Thread (FBSPT) 1-inch Female British Standard Pipe Thread (FBSPT)

Outlet

34-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

The upper housing, lower housing, and internal molded parts shall be of engineering-grade thermoplastics with internal elastomeric seals and a reinforced elastomeric diaphragm. Regulation shall be accomplished by a fixed stainless steel compression spring, which shall be enclosed in a chamber isolated from the normal water passage.

Outlet pressure and flow shall be clearly marked on each regulator.

The pressure regulator shall carry a two-year manufacturer's warranty on materials, workmanship, and performance. Each pressure regulator shall be water tested for accuracy before departing the manufacturing facility.

The pressure regulator shall be manufactured by Senninger Irrigation in Clermont, Florida. Senninger is a Hunter Industries Company.

#### Physical

3/4" FNPT x 3/4" FNPT model (shown on right)

Overall Length

5.2 inches (13.1 cm)

Overall Width

2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

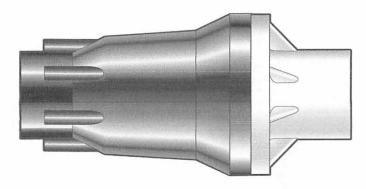
1" FBSPT x 1" FBSPT model

Overall Length

5.8 inches (14.6 cm)

Overall Width

2.5 inches (6.4 cm)



<sup>\*</sup> Please consult factory for applications outside of recommended guidelines.



# PMR-MF

## PRESSURE-MASTER REGULATOR - MEDIUM FLOW

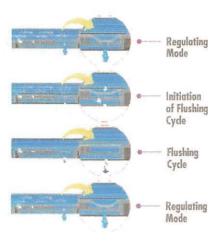
#### **Model Numbers**

Model #	Flow Range	Preset Operating Pressure	Maximum Inlet Pressure
PMR-6 MF	4 - 16 GPM	6 PSI	80 psi
	(909 - 3634 L/hr)	(0.41 bar)	(5.51 bar)
PMR-10 MF	4 - 16 GPM	10 PSI	90 psi
	(909 - 3634 L/hr)	(0.69 bar)	(6.20 bar)
PMR-12 MF	2 - 20 GPM	12 PSI	90 psi
	(454 - 4542 L/hr)	(0.83 bar)	(6.20 bar)
PMR-15 MF	2 - 20 GPM	15 PSI	95 psi
	(454 - 4542 L/hr)	(1.03 bar)	(6.55 bar)
PMR-20 MF	2 - 20 GPM	20 PSI	100 psi
	(454 - 4542 L/hr)	(1.38 bar)	(6.89 bar)
PMR-25 MF	2 - 20 GPM	25 PSI	105 psi
	(454 - 4542 L/hr)	(1.72 bar)	(7.24 bar)
PMR-30 MF	2 - 20 GPM	30 PSI	110 psi
	(454 - 4542 L/hr)	(2.07 bar)	(7.58 bar)
PMR-35 MF	2 - 20 GPM	35 PSI	115 psi
	(454 - 4542 L/hr)	(2.41 bar)	(7.93 bar)
PMR-40 MF	2 - 20 GPM	40 PSI	120 psi
	(454 - 4542 L/hr)	(2.76 bar)	(8.27 bar)
PMR-50 MF	2 - 20 GPM	50 PSI	130 psi
	(454 - 4542 L/hr)	(3.45 bar)	(8.96 bar)
PMR-60 MF	2 - 20 GPM	60 PSI	140 psi
	(454 - 4542 L/hr)	(4.14 bar)	(9.65 bar)

# NETAFIM

# Bioline® Dripperline

#### Pressure Compensating Dripperline for Wastewater



BioLine's Self-Cleaning, Pressure Compensating Dripper is a fully selfcontained unit molded to the interior wall of the dripper tubing.

As shown at left, BioLine is continuously self-cleaning during operation, not just at the beginning and end of a cycle. The result is dependable, clog free operation, year after year.



#### **Product Advantages**

#### The Proven Performer

- · Tens of millions of feet used in wastewater today.
- · Bioline is permitted in every state allowing drip disposal.
- · Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- · Proven track record of success for many years of hard use in wastewater applications.

#### Quality Manufacturing with Specifications Designed to Meet Your Needs

- Pressure compensating drippers assure the highest application uniformity even on sloped or rolling terrain
- Excellent uniformity with runs of 400 feet or more reducing installation costs.
- · Highest quality-control standards in the industry: Cv of 0.25 (coefficient of manufacturer's variation).
- A selection of flows and spacings to satisfy the designer's demand for almost any application rate.

#### Long-Term Reliability

- Protection against plugging:
  - Dripper inlet raised 0.27" above wall of tubing to prevent sediment from entering dripper.
  - Drippers impregnated with Vinyzene to prevent buildup of microbial slime.
  - Unique self-flushing mechanism passes small particles before they can build up.

#### Cross Section of Bioline Dripperline



#### Root Safe

- · A physical barrier on each BioLine dripper helps prevent root intrusion.
- Protection never wears out never depletes releases nothing to the environment.
- Working reliably for up to 15 years in subsurface wastewater installations.
- Additional security of chemical root inhibition with Techfilter supplies
   Trifluralin to the entire system, effectively inhibiting root growth to the dripper outlets.



### **Applications**

- · For domestic strength wastewater disposal.
- · Installed following a treatment process.
- Can be successfully used on straight septic effluent with proper design, filtration and operation.
- Suitable for reuse applications using municipally treated effluent designated for irrigation water.

#### **Specifications**

Wall thickness (mil): 45\*

Nominal flow rates (GPH): .4, .6, .9\*

Common spacings: 12", 18", 24"\*

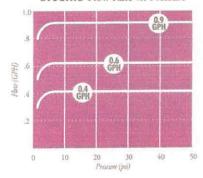
Recommended filtration: 120 mesh

Inside diameter: .570\*

Color: Purple tubing indicates non-potable source

\*Additional flows, spacings, and pipe sizes available by request. Please contact Netafim USA Customer Service for details.

#### BIOLINE Flow Rate vs. Pressure





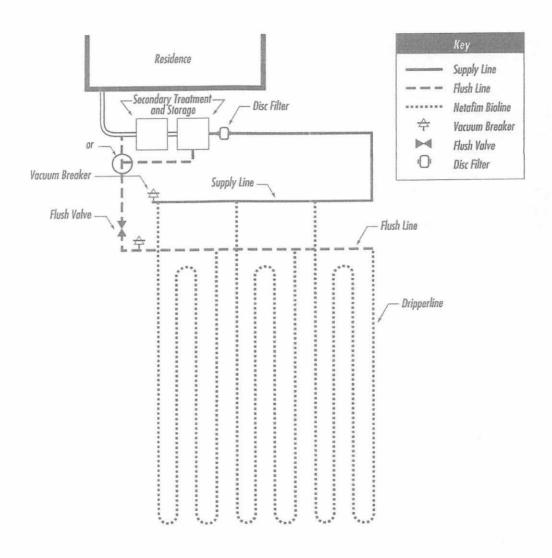
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

#### SAMPLE DESIGNS

#### SINGLE TRENCH LAYOUT

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

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



### Olvera, Brandon

From: Olvera, Brandon

**Sent:** Friday, March 3, 2023 10:41 AM

**To:** 'Greg Johnson'; 'donelldesigns@yahoo.com'

**Subject:** 115830

RE: 608 Luehlfing Dr

The Oaks 2 Lot 9T (SW PT)

Property Owner & Agent,

We received planning materials for the referenced permit application on 02-21-2023 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:

Both names on the deed need to be on the application Address the drip tubing over the tanks

3. Revise accordingly and resubmit.

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

Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

# AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR:
DONELL L. MARKS
608 LUEHLFING DRIVE
CANYON LAKE, TX 78133

#### S ...

Located in The Oak Unit 2, Lot 9T SW Part, at 608 Luehlfing Drive, the proposed system will serve an existing two bedroom residence (1556sf.) and a one bedroom detached living (408 sf), situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment property of the condition of this living and the state of the condition of of the

#### PROPOSE /ST

A 3 or 4-inc CH lipe degrees from lesid into luWater 10 600gpd aerobic plant do hally, a sch SCH-4 le di rges le the deta living and joins flow from sidence to lerobic con hg a leallor timent tank, an aerobic translation at plant, and some pump amb les a submersible (Franklin C1 20XC1-05P4-W115 ) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump spil. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1"

schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the disc filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 4" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). The field area will be sodded with grass prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

### **DESIGN SPECIFICATIONS:**

Daily waste flow: 240 GPD Table III Pretreatment tank size: 353 Gal

Plant Size: NuWater B550 600gpd (TCEQ Approved)

Pump tank size: 768 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.)

Total linear feet drip tubing: 1000' Netifim Bioline drip tubing .61 GPH

Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833gpm

Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump

INIMUM SCOUR VELUCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

 $MSV = 2 FPS (\Pi d 12)/4*7.48 gal/cf*60 sec/min$ 

 $MSV = 2(3.14159((.55/12)^{2})/4)*7.48*60$ 

MSV = 1.5 gpm PER LINE \* 3 LINES = 4.5 GPM MIN FLOW RATE

IN RETU MANIV DW 4. DIA 9" ID

Ms 2 FP A12 .48 gal/cf ec/n

MS  $2(3 89((1 12) \uparrow 2)/4)^*$  \*60

01/18/2023

MS 5.4 M

PIPE AND NGS:

All pipes an angle of this drip to them shall all some of the sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29,2016)

Greg W. Johnson, P.E. No. 67587 / F-25

170 Hollow Oak

New Braunfels, Texas 78132

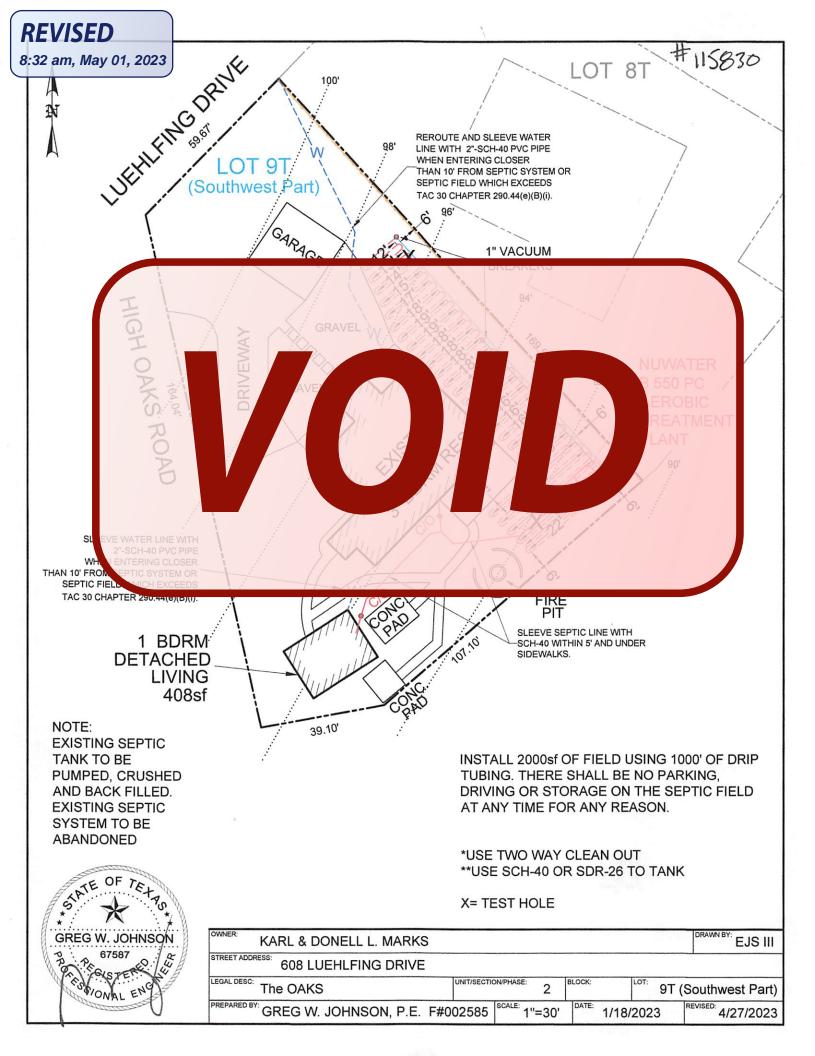
830/905-2778

GREG W. JOHNSON

OREG W. JOHNSON

OREG STERE

OREGONAL ENGLIS



#### **Assembly Details GENERAL NOTES:** Plant structure material to be precast concrete and steel. Maximum burial depth is 30" from slab top to grade. OSSF Weight = 14,900 lbs. Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 beedroom, < 4,000 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day. Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available. Bio-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer available for drip applications. Electrical Requirement to be 20 AMP, Grounded Receptacle. 20" Ø acess riser w/ lid (Typi 4). Optional extension ump. housing. t from Plant). 1/2" Sch. 40 PVC Air Line (Max. 50 I 1" Sch. 40 PVC pipe to distribution s stem provided by ted sand or gravel pa by Contractor See Note 7. ht: 67" **Outside Hei Outside Wid** h: 63" th: 164" 59" ATION DIMENSIONS: Diffuser Bar See Note 8. See Note 12. March, 2012 - Rev 1 NuWater B-550 (600 GPD) By: A.S. Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 **Aerobic Treatment Plant (Assembled)** Scale: Comfort, TX 78013 \* All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B550-3

Model: B-550-PC-400PT

830-995-3189 fax 830-995-4051

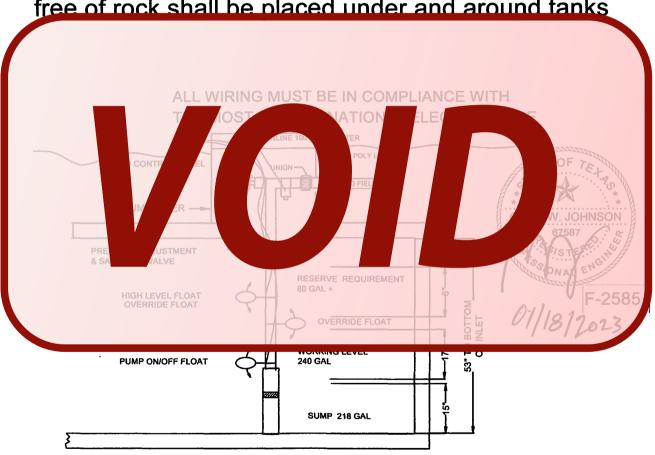
## TANK NOTES:

Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

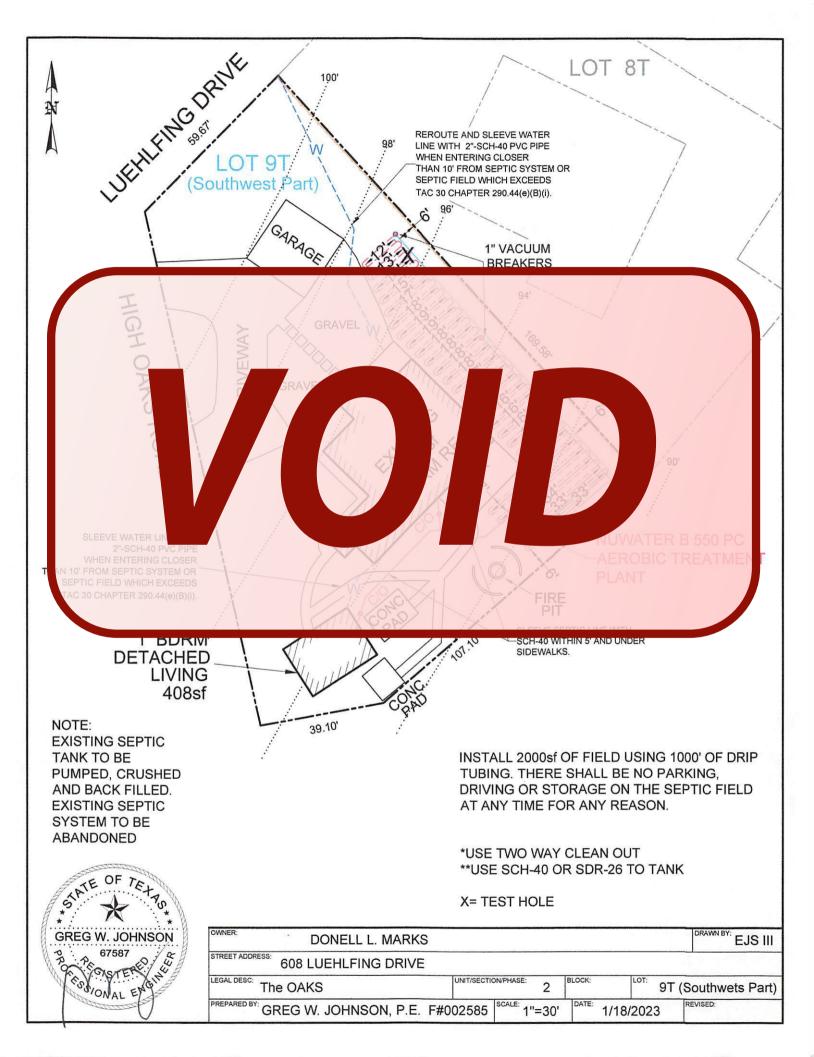
Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks



TYPICAL PUMP TANK CONFIGURATION NU-WATER 550PC -400PT 768 GAL PUMP TANK



#### Olvera, Brandon

From: Olvera, Brandon

Sent:Monday, May 1, 2023 8:34 AMTo:'Greg Johnson'; Ritzen, BrendaCc:Traci Field; Katelyn Neumann

**Subject:** RE: 608 LUEHLING DR - MARKS #115830

Good Morning,

File has been updated.

Thank You,

Brandon Olvera | Designated Representative: OS0034792 | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

From: Greg Johnson <gregjohnsonpe@yahoo.com>

Sent: Thursday, April 27, 2023 11:04 AM

**To:** Olvera, Brandon < Olverb@co.comal.tx.us>; Ritzen, Brenda < rabbjr@co.comal.tx.us> **Cc:** Traci Field < traci@psseptics.com>; Katelyn Neumann < katelyn@psseptics.com>

Subject: 608 LUEHLING DR - MARKS #115830

## This email originated from outside of the organization.

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

- Comal IT

#### REVISED TANK ORIENTATION.

THX, GREG

Send for Greg W. Johnson, P.E., R.S.)

170 Hollow Oak

New Braunfels, TX 78132

Office/Fax (830) 905-2778

Email: gregjohnsonpe@yahoo.com

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

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

					ID DRIP TUBI	
ize of Septic System F	Required Based on Plann	ing Materials & S	Soil Evaluatio	n		
ank Siz (a) (Gallons)	NAME OF SECOND	ADSO	rption/Applic	ation Area	(Sq Ft)	2000
Sal ons Per Day (As Pe	er TCEQ Table III)	240				
Si s generating more that	an 5000 gallons per day are	required to obtain	a permit thro	ugh TCEQ)		
te property locat	er the Edwa		s 🔀 No			
es, the planning ma	must be / Led by	atered &	1 (R.S.)	fessio	gineer (.	
lere an existing T	pproy PAP f	property?				
es, the R. S. or P. E.	ertif the OS	gn complies wi	rovis	the e	WPAP.)	
t ere is no existing \	Also a second	evelopmer	ity re	a TCI	proved W	☐ Yes ☐ I
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othe issued for the prop	SF until the propos	de	en appro	the a	0	ffice.)
,, <del></del> . • • . • . • . • . • . • . •						
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f yes, the P.E. or R.S. sh not be issued for the pro	all certify that the OSSF desposed OSSF until the CZP	sign will comply with has been approv	h all provisions ed by the app	of the propropriate reg	osed CZP. A Pe	ermit to construct will)
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195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078



AEROBIC TREATMENT DRIP TUBING SYSTEM DESIGNED FOR: DONELL L. MARKS 608 LUEHLFING DRIVE CANYON LAKE, TX 78133

#### **SITE DESCRIPTION:**

Located in The Oak Unit 2. Lot 9T SW Part, at 608 Luehlfing Drive, the proposed system with serve an existing two bedroom residence (1556sf.) and a one bedroom detached living 408 sf), situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditional this lot.

#### PROPOSEI STEN

A 3 or 4-inch ges from 0 600gpd h SCH-40 the detac iving and ges joins flow from ence to aerobic pl ont ga3abmersible olant. um mbe ntainir 05P4-W ed by a time controller allowing the distribution to mes per da setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" CH-40 manifold to a 2000 sf. drip tubing field, with Netifim Bioline drip lines set appr schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the disc filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 4" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). A minimum of 12" of soil required between tank and drip tubing. The field area will be sodded with grass prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.



### **DESIGN SPECIFICATIONS:**

Daily waste flow: 240 GPD Table III Pretreatment tank size: 353 Gal

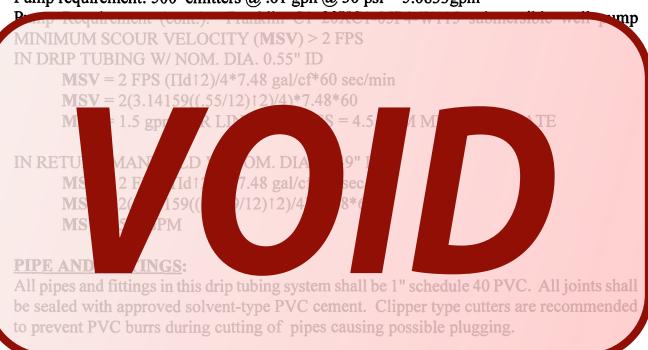
Plant Size: NuWater B550 600gpd (TCEQ Approved)

Pump tank size: 768 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.) Total linear feet drip tubing: 1000' Netifim Bioline drip tubing .61 GPH Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833gpm



Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29,2016)

Greg W. Johnson, P.E.

No. 67587 / F-2585

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778

SONAL E

#### Olvera, Brandon

From: Olvera, Brandon

**Sent:** Tuesday, May 16, 2023 4:17 PM

**To:** Greg Johnson

**Cc:** Katelyn Neumann; Traci Field

Subject: RE: 608 LUEHLFING DR - MARKS #115830

Good Afternon,

date the planning materials to reflect the new ATU being installed.

Thank You,

Brandon Olvera | Designated Representative OS0034792 | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

From: Greg Johnson <gregjohnsonpe@yahoo.com>

**Sent:** Wednesday, May 10, 2023 11:14 AM **To:** Olvera,Brandon < Olverb@co.comal.tx.us>

Cc: Katelyn Neumann <katelyn@psseptics.com>; Traci Field <traci@psseptics.com>

Subject: 608 LUEHLFING DR - MARKS #115830

## This email originated from outside of the organization.

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

- Comal II

REVISED TANKS.

THX,

Send for Greg W. Johnson, P.E., R.S.)

170 Hollow Oak

New Braunfels, TX 78132

Office/Fax (830) 905-2778

Email: gregjohnsonpe@yahoo.com

FILED C2021-1879A 9/7/2022 9:20 AM Heather N. Kellar Comal County District Clerk Accepted By:

FILED FOR RECORD

At 7:15 o'clock A M

9/9/2022

HEATHER N. WELLAR
CLERK DISTRICT COUNT.
COMM. POWN. TEXAS

OF TEXAS

DEFUTY. TEXAS

OF TEXAS

DEFUTY. TEXAS

#### CAUSE NO. <u>C2021-1879A</u>

IN THE MATTER OF \$ IN THE DISTRICT COURT
THE MARRIAGE OF \$

8

DONELL LYNN MARKS 

§ 22<sup>ND</sup> JUDICIAL DISTRICT

AND

KARL EDWARD MARKS § COMAL COUNTY, TEXAS

#### FINAL DECREE OF DIVORCE

On the 8th day of September 2022 the Court heard this case.

### Appearances

Petitioner, DONELL LYNN MARKS, appeared in person and through attorney of record, Carter Casteel, and agreed to these orders as evidenced by her signature affixed hereto.

Respondent, KARL EDWARD MARKS, through attorney of record, MELISSA D. ROWCLIFFE, and agreed to these orders as evidenced by his signature affixed hereto.

#### Record

The record of testimony was duly reported.

#### Jurisdiction and Domicile

The Court finds that the pleadings of Petitioner are in due form and contain all the allegations, information, and prerequisites required by law. The Court, after receiving evidence, finds that it has jurisdiction of this case and of all the parties and that at least sixty days have elapsed since the date the suit was filed.

The Court further finds that, at the time this suit was filed, Petitioner had been a domiciliary of Texas for the preceding six-month period and a resident of the county in which this suit was filed for the preceding ninety-day period. All persons entitled to citation were

properly cited.

Jury

A jury was waived, and questions of fact and of law were submitted to the Court.

Agreement of Parties

The Court finds that the parties have entered into a written agreement as contained in this decree by virtue of having approved this decree as to both form and substance. To the extent permitted by law, the parties stipulate the agreement is enforceable as a contract. The Court approves the agreement of the parties as contained in this Final Decree of Divorce.

Divorce

IT IS ORDERED AND DECREED that DONELL LYNN MARKS, Petitioner, and KARL EDWARD MARKS, Respondent, are divorced and that the marriage between them dated June 1, 1985, is dissolved on the ground of insupportability.

Child of the Marriage

The Court finds that there is no child of the marriage of Petitioner and Respondent now under eighteen years of age or otherwise entitled to support and that none is expected.

Division of Marital Estate

The Court finds that the following is a just and right division of the parties' marital estate, having due regard for the rights of each party.

**Property to Petitioner** 

IT IS ORDERED AND DECREED that Petitioner, DONELL LYNN MARKS, is awarded the following as her sole and separate property, and Respondent, KARL EDWARD MARKS, is divested of all right, title, interest, and claim in and to that property:

#### APPROVED AS TO FORM ONLY:

CASTEEL & CASTEEL, PLLC

254 E. Mill Avenue

New Braunfels, Texas 78130

Tel: (830) 608-1611 Fax: (830) 608-0449

By:

RTER CASTEEL

Attorney at Law

State Bar No. 03981600 carter@casteellaw.com Attorney for Petitioner

Law Office of Melissa D. Rowcliffe, P.C.

893 S. Castell Ave.

New Braunfels, Texas 78130 Telephone: 830-608-1650 Fax: 1-830-299-3939

Email: melissa@rowcliffelaw.com

MELISSA D. ROWCLIFFE

Attorney for Respondent State Bar No. 00795655

APPROVED AND CONSENTED TO AS TO BOTH FORM AND SUBSTANCE:

Karl Edward Marks, Respondent

316 GR. 132-594 JA



#### WARRANTY DEED WITH VENDOR'S LIEN

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.

PROVIDENCE TITLE GF NO. 132000594

Date:

DECEMBER 8, 2016 BEING MADE EFFECTIVE DECEMBER 9, 2016

**Grantor:** 

CAROLE J. KUENTZ, A SINGLE WOMAN

Grantor's Address (including County):

4787 WEST BIG CREEK ST. MERIDIAN, ID 83642 ADA COUNTY

Grantee:

KARL MARKS, A MARRIED MAN AND DONELL L. MARKS, HIS WIFE

Grantee's Address (including County):

12431 WOODTHORPE LN HOUSTON, TX 77024-4109 HARRIS COUNTY

and other good and valuable considerations in hand paid by the GRANTEE herein named, the receipt of which is hereby acknowledged;

AND, THE FURTHER CONSIDERATION of the execution and delivery by GRANTEE of that one certain promissory note in the original principal sum of ONE HUNDRED TWENTY THOUSAND AND NO/160 DOLLARS (\$120,000.00), bearing interest as therein specified and being due and payable as therein provided to the order of QUICKEN LOANS INC., and providing for the acceleration of maturity in event of default and for attorney's fees; and secured by the Vendor's Lien and Superior Title retained herein; and being additionally secured by a Deed of Trust of even date therewith to JASON SILVA, as Trustee; on the condition that this Vendor's Lien is cumulative of and without prejudice of or to said Deed of Trust;

#### Property (including any improvements):

BEING LOT 9-T, OF THE OAKS, UNIT II, AN ADDITION TO COMAL COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN VOLUME 1, PAGE 92, OF THE PLAT RECORDS, COMAL COUNTY, TEXAS.

SAVE AND EXCEPT: THE PORTION OF LOT 9-T CONVEYED TO MRS. JONNIE M. MULLINS BY DEED DATED SEPTEMBER 28, 1978 AND RECORDED IN VOLUME 272, PAGE 697, REAL PROPERTY RECORDS, COMAL COUNTY, TEXAS.

#### Reservations from Conveyance:

None.

#### Exceptions to Conveyance and Warranty:

Liens described as part of the Consideration and any other liens described in this deed as being either assumed or subject to which title is taken; validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing instruments, other than conveyances of the surface fee estate, that affect the Property; and taxes for current year, which Grantee assumes and agrees to pay.

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

QUICKEN LOANS INC., at Grantee's request, has paid cash to Grantor that portion of the purchase price of the Property that is evidenced by the note. The first and superior vendor's lien against and superior title to the Property are retained for the benefit of QUICKEN LOANS INC. and are transferred to QUICKEN LOANS INC. without recourse against Grantor.

The vendor's lien against and superior title to the property herein conveyed are retained until each note described herein is fully paid according to its terms, at which time this Deed shall become absolute.

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

#### MADE EFFECTIVE THE DATE FIRST HEREINABOVE SPECIFIED.

> Carole J. Kyentz

	ACKNOWLEDGMEN	NT
THE STATE OF IdaMo  COUNTY OF PLA	Ø 69 69	
Before me, the undersigned, on this day pers on the oath of or throu subscribed to the foregoing instrument and consideration therein expressed.	onally appeared CARO ugh <u>DYIVEVS LICENS</u> acknowledged to me th	LE J. KUENTZ known to me (or proved to me SC) to be the person whose name is nat he executed the same for the purposes and
Given under my hand and seal of office this	a_9)* day of DECE	MBER, 2016.
AUBIO ATE OF	NOTA	A Jamaquero RY PUBLIC, STATE OF 1dans
AFTER RECORDING RETURN TO:	PREP	ARED IN THE LAW OFFICE OF:
KARL MARKS 12431 WOODTHORPE LN. HOUSTON, TX 77024-4109	5001 F	SEY & FOSTER, P.C. HWY 287 SOUTH, STE. 105 NGTON, TEXAS 76017
MARRANTY DEED WITH VENDOR'S LIEN	Page 3 of 3	Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County Texas 12/09/2016 01:26:44 PM TERRI 3 Page(s) 201606046660

MBS/gw

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VOL 272 PAGE 697 1978 OCT -4 PM 3: 21

COUNTY CLERK COMAL COUNTY

BY Charling hosts

\$ 5.00 Feb

## 172697

GENERAL WARRANTY DEED

From: MARSHAL J. KUENTZ and wife, DORYCE JEANNE KUENTZ To: MRS. JONNIE M. MULLINS

THE STATE OF TEXAS

COUNTY OF COMAL

KNOW ALL MEN BY THESE PRESENTS:

That We, MARSHALLJ. KUENTZ and wife, DORYCE JEANNE KUENTZ, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00), and other good and valuable consideration to us, cash in hand paid by MRS. JONNIE M. MULLINS, the receipt of which is hereby conclusively acknowledged and confessed; have GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents do GRANT, BARGAIN, SELL and CONVEY unto the said MRS. JONNIE M. MULLINS, all that certain piece or parcel of land lying and being situated in Comal County, Texas, and described as follows, to-wit:

Being a portion of Lot 9-T, of The Oaks Subdivision, Unit 2, as recorded in Vol. 1, pages 92-93 of the Map and Plat Records of Comal County, Texas and being more particularly described by metes and bounds as follows, to-wit:

BEGINNING at an iron stake in the Southeasterly right-of-way line of Luehlfing Drive for the most Northerly corner of said Lot 9-T and for the most Northerly corner of the tract herein described;

THENCE; along said right-of-way line South 44° 29' West a distance of 4.66 feet to an iron stake set for the most Westerly corner of the tract herein described;

THENCE; severing said Lot 9-T South 42° 14' 40" East a distance of 169.58 feet to a nail set in the side of a concrete block wall for the most Southerly corner of the tract herein described;

THENCE; along said block wall and the Southeasterly boundary line of said Lot 9-T North 49° 14' East a distance of 5.85 feet to an iron stake for the most Easterly corner of said Lot 9-T and for the most Easterly corner of the tract herein described, being also the most Southerly corner of Lot 8-T of said subdivision;

THENCE; along the common boundary line between said Lot 8-T and 9-T North 42° 39' West a distance of 170.0 feet to the point of beginning of the tract herein described.

# CCEO<sup>®</sup> COPY

## VOL 272 PAGE 698

TO HAVE AND TO HOLD, the above described premises, together with, all and singular, the rights and appurtenances thereto in anywise belonging, unto the said MRS. JONNIE M. MULLINS, her heirs and assigns forever; and

We do hereby bind ourselves, our heirs, executors and administrators to WARRANT AND FOREVER DEFEND, all and singular, the above said premises unto MRS. JONNIE M. MULLINS, her heirs or assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, subject to restrictions, reservations, exceptions and easements of record, if any, running with the land.

WITNESS OUR HANDS, this the 28

ay of Legitimber, 1978

Smarshall J. HUENTZ

DORYCE JEANNE KUENTZ

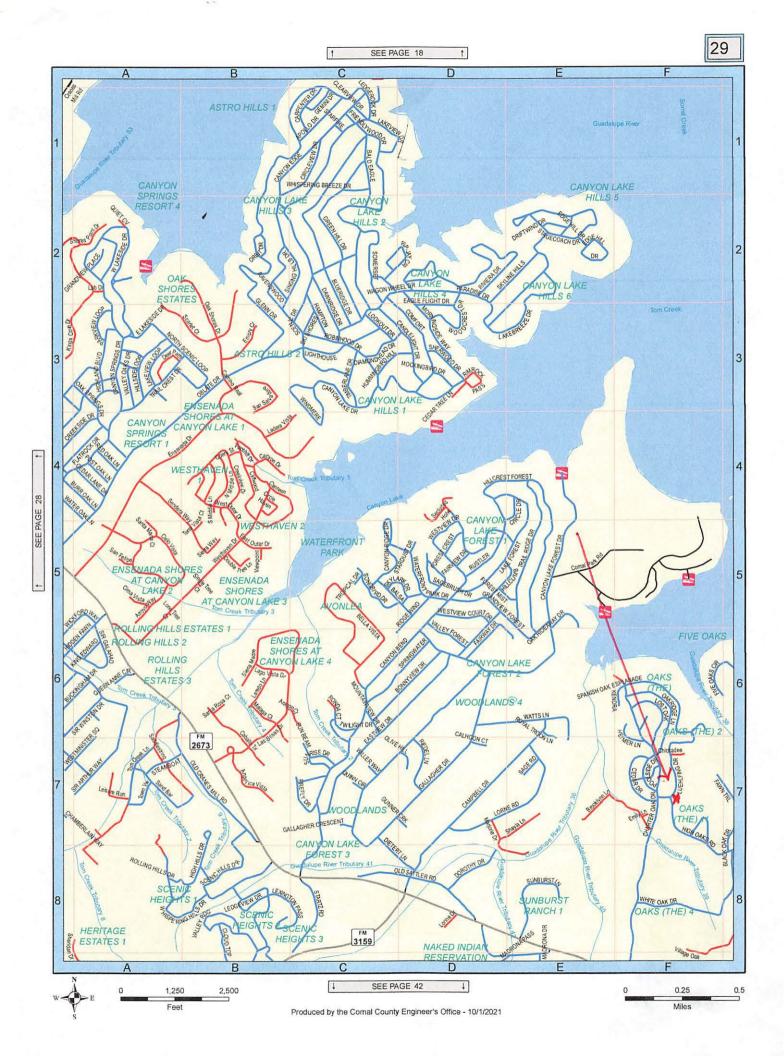
THE STATE OF TEXAS
COUNTY OF COMAL

BEFORE ME, the undersigned authority, on this day personally appeared MARSHALL J. KUENTZ and wife, DORYCE JEANNE KUENTZ, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they had executed the same for the purposes and consideration therein expressed.

day of Joylen under MY HAND and SEAL OF OFFICE, this the 28 th

NOTARY PUBLIC, in and for Comal County, Texas

My commission expires 3-17-78



Baker Septic Service, a Series LLC **Baker Septic Pumping PS LLC** PO Box 2221 Canyon Lake, TX 78133-0009 830-899-2971 \*\*\*<del>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*</del>

# Invoice

Bill To

Swoyer, Paul 23011 Fm 306

Canyon Lake TX, 78133

830-935-4936

Date: 5/24/2023

Invoice # 16199

Item	Description	Qty	Price	Amount
Pump	Septic pump up to 1000 gal.	1.00	450.00	450.00
Labor	Labor \$85.00/ hour			
Add. Waste	Additional waste \$0.45 per gallon			
	(Re:608 Luehfling Dr.)			

bakersepticservice@yahoo.com Subtotal \$450.00 Sales Tax (8.... \$0.00 Total \$450.00 \$0.00 Payments/Credit: **Balance Due** \$450.00