

Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: **08/22/2019** Permit Number: **108158**

Location Description: 1287 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

Subdivision: Preiss Heights

Unit:

Lot: 7

Block: 7

Acreage:

Type of System: Aerobic
Drip Irrigation

Issued to: Karl M. Hanner

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.**

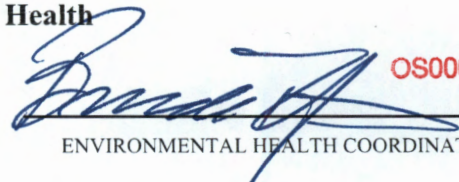
Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

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


OS8497
 ENVIRONMENTAL HEALTH INSPECTOR


OS0007722
 ENVIRONMENTAL HEALTH COORDINATOR

Final

Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Sweyer OSSF Installer #: 050026238
 1st Inspection Date: 8-15-19 2nd Inspection Date: _____ 3rd Inspection Date: 08-22-2019
 Inspector Name: Conner Inspector Name: _____ Inspector Name: Mike T
 Permit#: 108158 Address: Preis Heights 1287 Edwards Blvd

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)		/		08-22-19
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)(B) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(A) 285.32(b)(1)(E)(ii)(ii) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(i)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

Tank set level no leaks operational irrigation heads were broken: flooding field - need to shut off system revision needed for no detached living bldg. on site tight line comes from main residence

08-22-2019 BMO
Conner

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If Single Tank, 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)(H) 285.32(b)(1)(E)(ii)(I) 285.32(b)(1)(E)(i) 285.32(b)(1)(D) 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)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	/	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		/		8-22 10
10	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed	/			/		/
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	/		<i>Always Clean Municipal 3550</i>	/		/
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

**Comal County Environmental Health
OSSF Inspection Sheet**

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

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	<p>EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling</p> <p>EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0%</p> <p>EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom)</p> <p>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</p> <p>EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart</p>		<p>285.33(b)(3)(A)</p> <p>285.33(b)(3)(A)</p> <p>285.33(b)(3)(B)</p> <p>285.91(13)</p> <p>285.33(b)(3)(D)</p> <p>285.33(b)(3)(F)</p>				
32	AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.	/	285.32(c)(1)		/		8-29 19
33	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided	/			/		
	AEROBIC TREATMENT UNIT Secondary restraint system provided	/			/		
	AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank	/			/		
34	AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions	/			/		
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.	N/A					
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						
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						
38	PUMP TANK Secondary restraint system provided						
39	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried	/			/		

**Comal County Environmental Health
OSSF Inspection Sheet**

Itm.	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)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)				8-28 1a
41	APPLICATION AREA Low Angle Nozzles Used / Pressure Is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G)(i) 285.33(d)(2)(A) 285.33(d)(2)(F)				
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						

Hernandez, Sandra

From: Hernandez, Sandra
Sent: Tuesday, August 20, 2019 8:31 AM
To: 'Greg Johnson'
Subject: RE: 1287 EDWARD BLVD - HANNER #108158

Greg,
The following information is still needed:

1. The one bedroom detached living area that is shown on the site plan is not yet built. Please revise accordingly and resubmit.

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

Thank you,
Sandra

From: Greg Johnson <gregjohnsonpe@yahoo.com>
Sent: Tuesday, August 20, 2019 5:24 AM
To: Hernandez, Sandra <rabsah@co.comal.tx.us>
Cc: Marisa Kane <marisa@paulswoyerseptics.com>; Katelyn Neumann <katelyn@paulswoyerseptics.com>
Subject: 1287 EDWARD BLVD - HANNER #108158

REVISED.
THANKS,
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 Environmental Health OSSF Inspection Sheet

Installer Name: Swayer OSSF Installer #: 050026238
 1st Inspection Date: 8-15-19 2nd Inspection Date: _____ 3rd Inspection Date: _____
 Inspector Name: Conner Inspector Name: _____ Inspector Name: _____
 Permit#: 108158 Address: Preis Heights 1287 Edwards Blvd

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
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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)		/		
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tank set level no leaks operational irrigation heads were broken: flooding field - need to shut off system. revision needed for no detached living bldg. on site tight line comes from main residence

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12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed	✓			✓		
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	✓		<i>Allyson Cox Newater 3550</i>	✓		
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)				
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33	<p>AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.</p>	/	285.32(c)(1)		/		
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35	<p>AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.</p>	N/A					
36	<p>PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction</p> <p>PUMP TANK Sampling Port Provided in the Treated Effluent Line</p> <p>PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required</p> <p>PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump</p>						
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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						

GUADALUPE RIVER

99.09'

FLOOD ZONE "A"

LOT 7

EXISTING 3 BDRM RES. 1873sf

PATIO

HOT TUB

WELL HOUSE

WELL

WELL

C/O

C/O

C/O

EXISTING SEPTIC LINE SCH-40 UNDER DRIVEWAY.

TIES FROM HOUSE

NUWATER B 550 PC AEROBIC TREATMENT PLANT

1" VACUUM BREAKERS

SLEEVE SEPTIC LINE WITH SCH-40 WITHIN 5' AND UNDER DRIVEWAY.

1 BDRM DETACHED LIVING 800sf

DRIVEWAY

*shut cap
sprinkler system
found broken
sprinkler heads
flooded from
wells*

WELL

R100'



EDWARDS BLVD.

100.15'

328.38'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

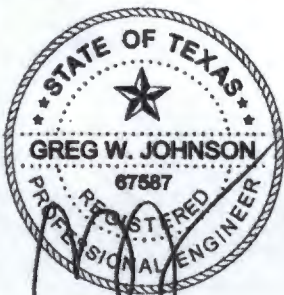
100'

100'

100'

100'

NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED



OWNER:	KARL M. HANNER			DRAWN BY:	EJS III	
STREET ADDRESS:	1287 EDWARDS BLVD.					
LEGAL DESC:	PREISS HEIGHTS	UNIT/SECTION/PHASE:	BLOCK:	7	LOT:	7
PREPARED BY:	GREG W. JOHNSON, P.E. F#002585	SCALE:	1"=40'	DATE:	9/19/2018	REVISED:

INSTALL 3000sf OF FIELD USING 1500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

Remove from design

R100'

R100'

328.38'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

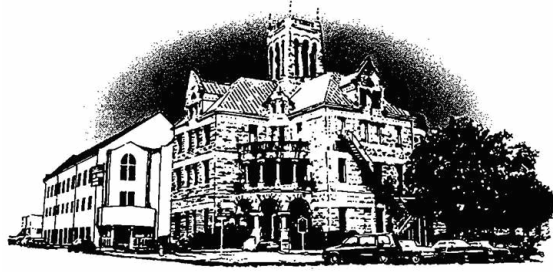
100'

100'

100'

100'

100'



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: 108158
Issued This Date: 10/30/2018
This permit is hereby given to: Karl M. Hanner

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

1287 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

Subdivision: Preiss Heights

Unit:

Lot: 7

Block: 7

Acreage:

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.

REVISED

COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * *

8:16 am, Aug 21, 2019

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

Date September 17, 2018

Permit # 108158

Owner Name KARL M HANNER
Mailing Address 1287 EDWARDS BLVD
City, State, Zip NEW BRAUNFELS TEXAS 78132
Phone# 830-708-7617
Email shanner@satx.rr.com

Agent Name GREG W. JOHNSON, P.E.
Agent Address 170 HOLLOW OAK
City, State, Zip NEW BRAUNFELS, TX 78132
Phone # (830) 905-2778
Email gregjohnsonpe@yahoo.com

All correspondence should be sent to: Owner Agent Both Method: Mail Email

Subdivision Name PREISS HEIGHTS Unit/Phase/Section _____ Lot 7 Block 7
Acreage/Legal _____
Street Name/Address 1287 EDWARDS BLVD City NEW BRAUNFELS Zip 78132

Type of Development:

Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) HOUSE
Number of Bedrooms 3
Indicate Sq Ft of Living Area 1873

Commercial or Institutional Facility

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility _____
Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants _____
Restaurants, Lounges, Theaters - Indicate Number of Seats _____
Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds _____
Travel Trailer/RV Parks - Indicate Number of Spaces _____
Miscellaneous _____

Estimated Cost of Construction: \$ EXISTING (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

Yes No (if yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water Public Private Well

Are Water Saving Devices Being Utilized Within the Residence? Yes No

By signing this application, I certify that:

- the completed application and all additional information submitted does not contain any false information and does not conceal any material facts.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities.
- I also understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Karl M. Hanner
Signature of Owner

09/18/18
Date

REVISED
8:12 am, Aug 20, 2019

PREISS HEIGHTS, BLOCK 7, LOT 7

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***

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

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

Size of Septic System Required Based on Planning Materials & Soil Evaluation

MAXX AIR M-600

Tank Size(s) (Gallons) _____ Absorption/Application Area (Sq Ft) 3000

Gallons Per Day (As Per TCEQ Table III) 300

(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.))

Is there an existing TCEQ approved WPAP for the property? Yes No

(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)

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

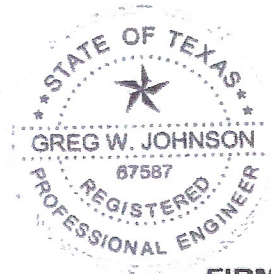
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No

(if yes, the P.E. or R.S. 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: _____



FIRM #2585

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]
Signature of Designer

September 24, 2018
Date

Greg W. Johnson, P.E.
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778

September 24, 2018

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

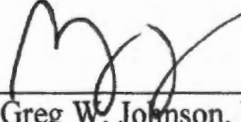
RE- SEPTIC DESIGN
1287 EDWARDS BLVD
PREISS HEIGHTS, BLOCK 7, Lot 7
NEW BRAUNFELS, TX 78132
HANNER RESIDENCE

Ms. Brenda Ritzen,

The referenced property is located within the Edwards Aquifer Recharge Zone. This property is exempt from a WPAP because it is not a regulated activity according to §213.5(h)(2) "exempt ... does not exceed 20 % impervious cover on the site. To my knowledge no WPAP exists for this property.

Temporary erosion and sedimentation controls should be utilized as necessary prior to construction. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, activities must be suspended immediately and the applicant or his agent must immediately notify the TCEQ Regional Office. After that operations can only proceed after the Executive Director approves required additional engineered impact plans.

Designed in accordance with Chapter 285, Subchapter D, §285.40, 285.4 1, & 285.42, Texas Commission on Environmental Quality (Effective December 29, 2016).

 09/24/18

Greg W. Johnson, P.E. No. 67587/F#2585
170 Hollow Oak
New Braunfels, Texas 78132 - 830/905-2778



9
YCS

AFFIDAVIT



201806037506 09/24/2018 11:24:10 AM 1/1

**THE COUNTY OF COMAL
STATE OF TEXAS**

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

I

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

II

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

UNIT/PHASE/SECTION 7 BLOCK 7 LOT _____ PREISS HEIGHTS SUBDIVISION

IF NOT IN SUBDIVISION: _____ ACREAGE _____ SURVEY

The property is owned by **(insert owner's full name):** KARL M. HANNER

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 18 DAY OF SEPTEMBER, 2018

Karl M. Hanner

KARL M. HANNER

Owner(s) signature(s)

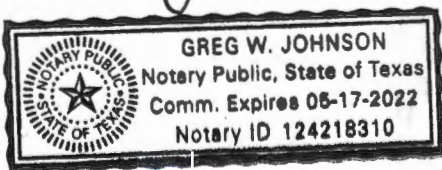
Owner (s) Printed name (s)

KARL M. HANNER

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 18 DAY OF

SEPTEMBER, 2018

Greg W. Johnson
Notary Public Signature



(Notary Seal Here)

THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
09/24/2018 11:24:10 AM
TERRI 1 Page(s)
201806037506



Bobbie Koepf

RECEIVED

By rabsah at 8:16 am, Apr 26, 2019



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

MP#0001708
CHRISTOPHER RYAN SEIDENSTICKER

PROPERTY LEGAL DESCRIPTION:

Preiss Heights, Block 7, Lot 7

Customer: Karl M. Hanner

Site Address: 1287 Edwards Blvd

City/State: New Braunfels, TX **Zip:** 78132

County: COMAL **Permit#:** 108158

Phone Number: _____

E-mail: _____

I. General: This On-Site Sewage Facility Service Agreement (hereinafter referred to as "Agreement") is entered into by and between Karl M. Hanner, (hereinafter referred to as "Client") and PS Supply & Service LLC. (hereinafter referred to as "Contractor"). By this agreement, Contractor agrees to render services, as described herein (the "Services"), and the client agrees to fulfill his/her/their responsibilities under this agreement herein.

II. Effective Dates: This agreement commences on the date of License to Operate is issued for Three (3) years.

Date of License to Operate: LTO Last Date of Service: 3 yrs from LTO

III. Services by Contractor: Contractor will provide the following Services:

1. Inspect and perform routine maintenance on the On-Site Sewage Facility ("OSSF") in compliance with the code, regulations, and/or rules of the Texas Commission on Environmental Quality ("TCEQ") and county in which the OSSF is located (the "County") and the manufacturer's requirements, at a frequency of approximately once every four (4) months.
2. Report to the appropriate regulatory authority and to Client, as required by the State of Texas' on-site rules and, if required, TCEQ or County rules. All findings must be reported to the appropriate regulatory authority within 14 days.
3. Notify Client and repair any components of the OSSF that are found to be in need of repair during the inspection. If warranty, you just do it. If not, Client will be responsible. Repairs will be made so brought up to compliance and bill forward.
4. Visit site in response to Client's request for unscheduled service within two business days from the date of Contractor's actual receipt of Client's request. Unscheduled service visits are not included in the fee agreement herein and will be billed to the client in addition to fees under this Agreement.
5. Provide notification of arrival to site to the Client or to site personnel. Additionally, Contractor will leave written notification of the visit at the site or with site personnel upon completion of inspection, and forward such notice to the appropriate regulatory authority within fourteen (14) days.

IV. Payment(s): Client shall pay to Contractor included w/ septic, for the Services describe herein (the "Inspection and Routine Maintenance Fee"), excepting those described in Section III (4), or Section IX, herein. The Fee does not include equipment, parts or labor supplied for anything beyond routine inspection and routine maintenance. Payments for such additional services are due at the time services are provided or rendered. Payments not received within thirty (30) days from the due date will be subject the greater of a \$20.00 late penalty or 1.5% carrying charge on the original balance for each month or portion thereof a balance in past due. If for any reason such charges are found to be usurious by a court of competent jurisdiction, such charges shall be reduced to the maximum allowable by law. By signing this contract, Client authorizes Contractor to remove any parts installed, but not paid in full at the end of the thirty (30) days. Client agrees to pay for any labor cost associated with the installation and the reasonable cost of removal of said parts.

Client: [Signature]

Contractor: [Signature]

RECEIVED

By rabsah at 8:16 am, Apr 26, 2019

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

1. To maintain chlorinator and provide proper chlorine supply, if OSSF is so equipped.
2. To provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, and to allow Contractor ready access to all parts of the OSSF.
3. To maintain a current license to operate, and abide by the conditions and limitations of that license and all requirements for on-site sewage facilities from the State and local regulatory agency.
4. To maintain the OSSF in accordance with manufacturer's recommendations.
5. To immediately notify Contractor and Agency of any and all problems with, the OSSF, including failure thereof.
6. Upon receipt of any written notification of required services from Contractor, to contact Contractor and authorize the required service. If Client elects a different contractor to perform the required service, Client is responsible for ensuring the substitute contractor holds the proper license (Installer II) and is certified by the manufacturer. Additionally, Client shall be responsible for ensuring proper notification is given to the appropriate regulatory authority, as required by the State and/or local regulatory authority rules.
7. To provide Contractor with water usage records, upon request, for evaluation by Contractor of the OSSF performance.
8. To pay required sampling charges for samples collected for testing (e.g. Biological Oxygen Demand/Total Suspended Solids ("BOD/TSS")) that may be required on the OSSF.
9. To prevent backwash from water treatment or water conditioning equipment to enter the OSSF.
10. To provide, at Client's expense, for pumping of tanks as needed.
11. To maintain site drainage sufficient to prevent adverse effects on the OSSF.
12. To promptly and fully pay Contractor's bills, fees, or invoices as described herein.

VI. Access by Contractor: Client agrees to allow Contractor, or personnel authorized by the Contractor, to enter the property at reasonable times without prior notice for the purpose of performing the Services described herein. Such entry shall include access to the OSSF electrical and physical components, including tanks, by means of manways or risers for the purpose of evaluations required by the manufacturer, and/or regulatory authority rules. If such manways or risers are not in place, Client shall allow and be responsible for payment of required excavation, including labor and materials, necessary to allow access to the OSSF or any required components. Such excavation shall be billed at the rate of \$75.00 per hour for labor, plus materials billed at list price. Contractor shall make only those efforts reasonable under the circumstances to replace excavated soil.

VII. Application or Transfer of Payment: The fees paid for this agreement may transfer to any subsequent owner(s) of the property on which the OSSF is located. The subsequent owner(s) must sign a similar agreement authorizing Contractor to perform the above-described Services, and accepting Client's responsibilities. The replacement Agreement must be signed and received within 30 days of transfer of ownership. Contractor will apply all funds received from Client first to any past due obligations arising from this Agreement including late charges, return check charges, and charges for repairs or services not paid within 30 days of invoicing. The consumption of the payment in this manner may lead to termination of the agreement by Contractor

VIII. Termination of Agreement: This agreement may be terminated by either party with 30 days written notice. If this agreement is so terminated by Client, Contractor shall be paid at the rate of \$75.00 per hour for any work performed or required, but not yet paid. If terminated by Contractor, all amounts outstanding shall be due within thirty days of termination. The party terminating will immediately notify the other party, the equipment manufacturer, and the regulatory agency of the termination.

IX. Limitation of Liability: In no event shall Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract, tort, or any other theory of liability. In no event shall the Contractor's liability for direct damages exceed payments by the Client under this Agreement.

X. Severability and Reformation: If any provision in this Agreement shall be held to be invalid or unenforceable for any reason, it shall be reformed to the minimum extent necessary to effect the intent of the Parties. If any provision is such that it cannot reasonably be reformed, it shall be struck from this Agreement and the remaining provisions shall continue to be valid and enforceable.

XI. Performance of Agreement: Commencement of performance by Contractor under this agreement is contingent on the following conditions: (1) Contractor receiving a fully executed original copy of this agreement. (2) Contractor receiving payment in full of the fee(s) described herein. If the above conditions are not met, then Contractor is from any obligation to perform any portion of this agreement.

XII. Modification. This Agreement may not be changed or modified except by an instrument in writing, signed by both Contractor and Client.

XIII. Waiver. Except as otherwise noted in this Agreement, the waiver by other party of a breach of any provision of this Agreement shall not operate or be construed as a continuing waiver or as a consent to or waiver of any subsequent breach hereof.

Client: RMH

Contractor: KS

RECEIVED

By rabsah at 8:17 am, Apr 26, 2019

XIV. Headings. The Article and Section headings in this Agreement are for the convenience of reference only and do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof.

XV. GOVERNING LAW AND CHOICE OF VENUE. EACH OF THE PARTIES HERETO HEREBY CONSENTS TO THE EXCLUSIVE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND TO THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS – SAN ANTONIO DIVISION, AS WELL AS TO THE JURISDICTION OF ALL COURTS TO WHICH AN APPEAL MAY BE TAKEN FROM SUCH COURTS, FOR THE PURPOSE OF ANY SUIT, ACTION, OR OTHER PROCEEDING ARISING OUT OF, OR IN CONNECTION WITH, THIS AGREEMENT OR ANY OF THE TRANSACTIONS CONTEMPLATED HEREBY, INCLUDING, WITHOUT LIMITATION, ANY PROCEEDING RELATING TO ANCILLARY MEASURES IN AID OF ARBITRATION, PROVISIONAL REMEDIES AND INTERIM RELIEF, OR ANY PROCEEDING TO ENFORCE ANY ARBITRAL DECISION OR AWARD. EACH PARTY HERETO EXPRESSLY WAIVES ANY AND ALL RIGHTS TO BRING ANY SUIT, ACTION, OR OTHER PROCEEDING IN OR BEFORE ANY COURT OR TRIBUNAL OTHER THAN COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND COVENANTS THAT IT SHALL NOT SEEK IN ANY MANNER TO PROSECUTE OR DEFEND ANY DISPUTE OTHER THAN AS SET FORTH IN THIS ARTICLE XVI OR TO CHALLENGE OR SET ASIDE ANY DECISION, AWARD, OR JUDGMENT OBTAINED IN ACCORDANCE WITH THE PROVISIONS HEREOF. EACH OF THE PARTIES HERETO HEREBY EXPRESSLY WAIVES ANY AND ALL OBJECTIONS IT MAY HAVE TO VENUE, INCLUDING, WITHOUT LIMITATION, THE INCONVENIENCE OF SUCH FORUM, IN ANY OF SUCH COURTS.

XVI. JURY TRIAL WAIVER. THE PARTIES HEREBY UNCONDITIONALLY WAIVE THEIR RIGHT TO A JURY TRIAL OF ANY AND ALL CLAIMS OR CAUSES OF ACTION ARISING FROM OR RELATING TO THEIR RELATIONSHIP. THE PARTIES ACKNOWLEDGE THAT A RIGHT TO A JURY IS A CONSTITUTIONAL RIGHT, THAT THEY HAVE HAD AN OPPORTUNITY TO CONSULT WITH INDEPENDENT COUNSEL, AND THAT THIS JURY WAIVER HAS BEEN ENTERED INTO KNOWINGLY AND VOLUNTARILY BY ALL PARTIES TO THIS AGREEMENT. IN THE EVENT OF LITIGATION, THIS AGREEMENT MAY BE FILED AS A WRITTEN CONSENT TO A TRIAL BY THE COURT.

Approved by Contractor:



MP#0001708

CHRISTOPHER RYAN SEIDENSTICKER

Approved by Client:



XVII. Reservation of Rights. Contractor reserves all rights not specifically granted herein.

XVIII. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.

XIX. Counsel. Contractor has previously recommended that Client engage counsel to assist him/her/it in reviewing this Agreement and all other matters relating to it. Contractor and Client shall each bear his/her/its own costs and expenses in connection with the negotiation and documentation of this Agreement.

XX. Entire Agreement: This agreement contains the entire agreement of the parties, and there are no promises or conditions in any other agreement, oral or written. The Parties expressly disclaim reliance on any prior statements, oral or written, by either party not expressly provided for herein.

Client:



Contractor:



**ON-SITE SEWERAGE FACILITY
SOIL EVALUATION REPORT INFORMATION**

Date Soil Survey Performed: September 18, 2018

Site Location: PREISS HEIGHTS, BLOCK 7, LOT 7

Proposed Excavation Depth: N/A

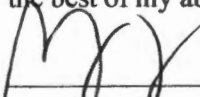
Requirements:

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

SOIL BORING NUMBER		SURFACE EVALUATION				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	III	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 16"	BROWN
1						
2						
3						
4						
5						

SOIL BORING NUMBER		SURFACE EVALUATION				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	SAME		AS		ABOVE	
1						
2						
3						
4						
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

09/18/19

 Date

REVISED

8:17 am, Aug 21, 2019

DRIP TUBING SYSTEM
DESIGNED FOR:
KARL M. HANNER
1287 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

SITE DESCRIPTION:

Located in Preiss Heights, Block 7, Lot 7, at 1287 Edwards Blvd, the proposed system will serve a three bedroom residence (1873sf.) situated in an area with Type-III soil as described in the Soil Evaluation Report. 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-inch SCH-40 pipe discharges from the residence into a Maxx Air M-600 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768-gallon pump chamber 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 300 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 3000sf. 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. 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 continuously flush the system by cycling a 1" ball valve. Solids caught in the spin filter are flushed each cycle back to the trash 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 ~2" 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 (Actual 300 gpd) Design Rate

Pretreatment tank size: 353 Gal

Plant Size: Maxx Air M-600 600gpd (TCEQ Approved)

Pump tank size: 768 Gal

Reserve capacity after High Level: 100 Gal (>1/3 day Req'd)

REVISED

8:17 am, Aug 21, 2019

Application Rate: Ra = 0.2 gal/sf

Total absorption area: $Q/Ra = 300 \text{ GPD}/0.20 = 1500 \text{ sf.}$ (Actual 3000 sf.)

Total linear feet drip tubing: 1500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 750 emitters @ .61 gph @ 30 psi = 7.625gpm

Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump Dosing volume: 50-70 gal.

Pump Tank Calculations: 768 Gal (14.5 gal/in.)

Volume below working level = 15" = 218 gal

Working level = 300 gal = 21"

Reserve Requirement = >1/3 day = 100 gal. = 7"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

$MSV = 2 \text{ FPS } (\pi d^2)/4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$

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

$MSV = 1.5 \text{ gpm MIN FLOW RATE} \times 5 = 7.5 \text{ gpm}$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

$MSV = 2 \text{ FPS } (\pi d^2)/4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$

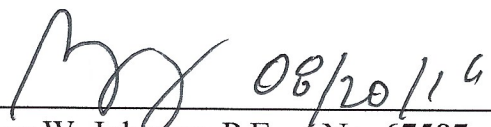
$MSV = 2(3.14159((1.049/12)^2)/4) * 7.48 * 60$

$MSV = 5.4 \text{ GPM}$

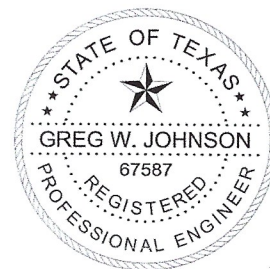
PIPE AND FITTINGS:

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. Drip tubing 0.61 gph drip tubing to be used in field.

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



#108158

GUADALUPE RIVER

REVISED

8:17 am, Aug 21, 2019

99.69'

FLOOD ZONE "A"

LOT 7

EXISTING
3 BDRM RES.
1873sf

PATIO

HOT TUB

WELL HOUSE

WELL

WELL

R100'

R100'

326.39'

C/O

C/O

FENCE

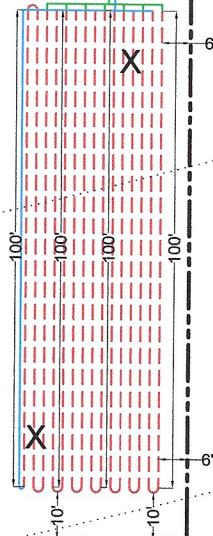
VERIFY THAT THE SEPTIC LINE IS SLEEVED WITH SCH-40 WITHIN 5' AND UNDER DRIVEWAY.

100'

MAXX AIR M-600
AEROBIC TREATMENT
PLANT

1" VACUUM
BREAKERS

DRIVEWAY



6'

98'

6'

96'

10'

10'

100.15'

EDWARDS BLVD.

WELL

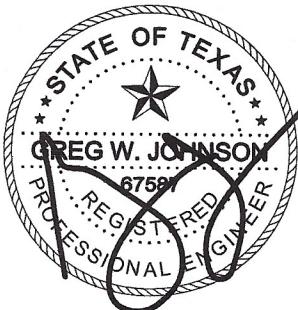
R100'

INSTALL 3000sf OF FIELD USING 1500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED



OWNER: KARL M. HANNER		DRAWN BY: EJS III	
STREET ADDRESS: 1287 EDWARDS BLVD.			
LEGAL DESC: PREISS HEIGHTS	UNIT/SECTION/PHASE:	BLOCK: 7	LOT: 7
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=40'	DATE: 9/19/2018	REVISED: 8/19/2019

REVISED

8:12 am, Aug 20, 2019

TANK NOTES:

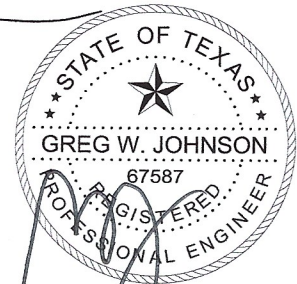
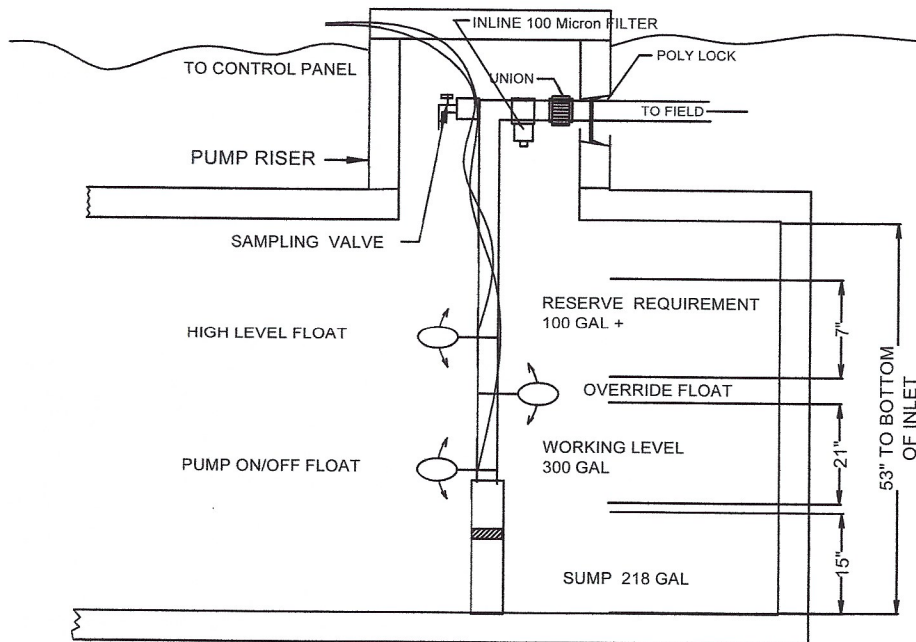
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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

ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE



F-2585

08/19/19

**TYPICAL PUMP TANK CONFIGURATION
MAXX AIR M600 768 GAL PUMP TANK**

REVISED

8:12 am, Aug 20, 2019

TANK NOTES:

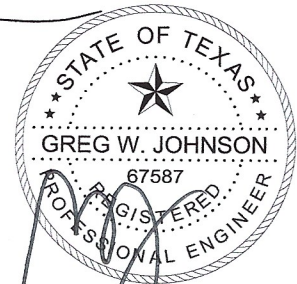
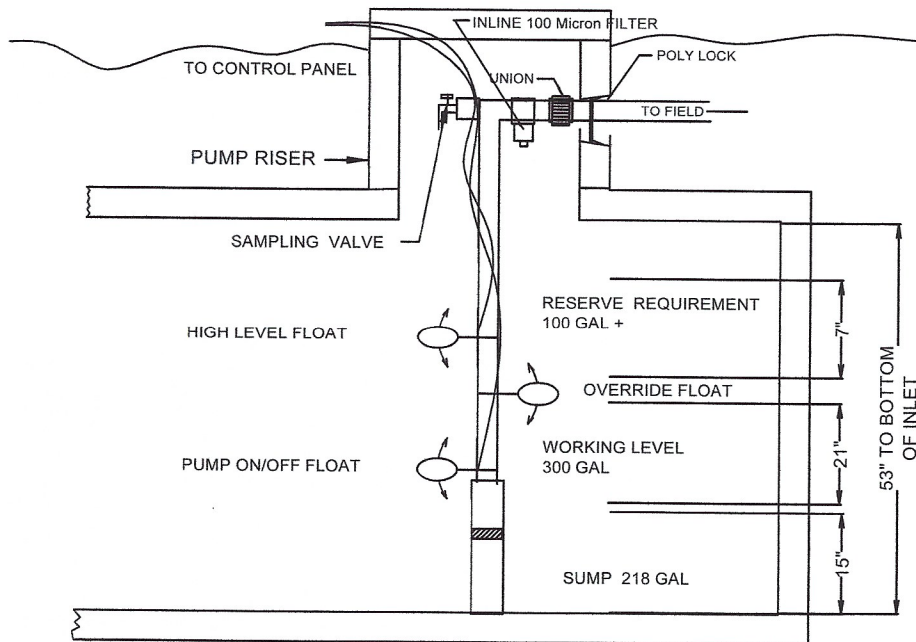
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F-2585

08/19/19

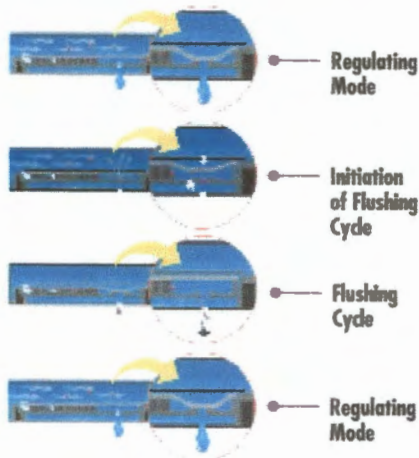
**TYPICAL PUMP TANK CONFIGURATION
MAXX AIR M600 768 GAL PUMP TANK**



Bioline® Driperline



Pressure Compensating Driperline for Wastewater



Bioline's Self-Cleaning, Pressure Compensating Dripper is a fully self-contained unit molded to the interior wall of the driper 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.



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.

Product Advantages

The Proven Performer

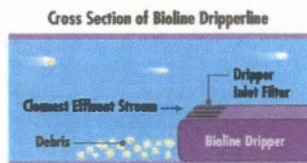
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

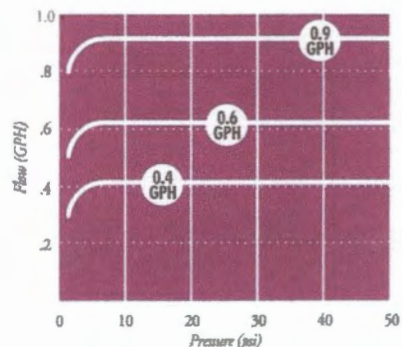


Root Safe

- 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.



BIOLINE Flow Rate vs. Pressure



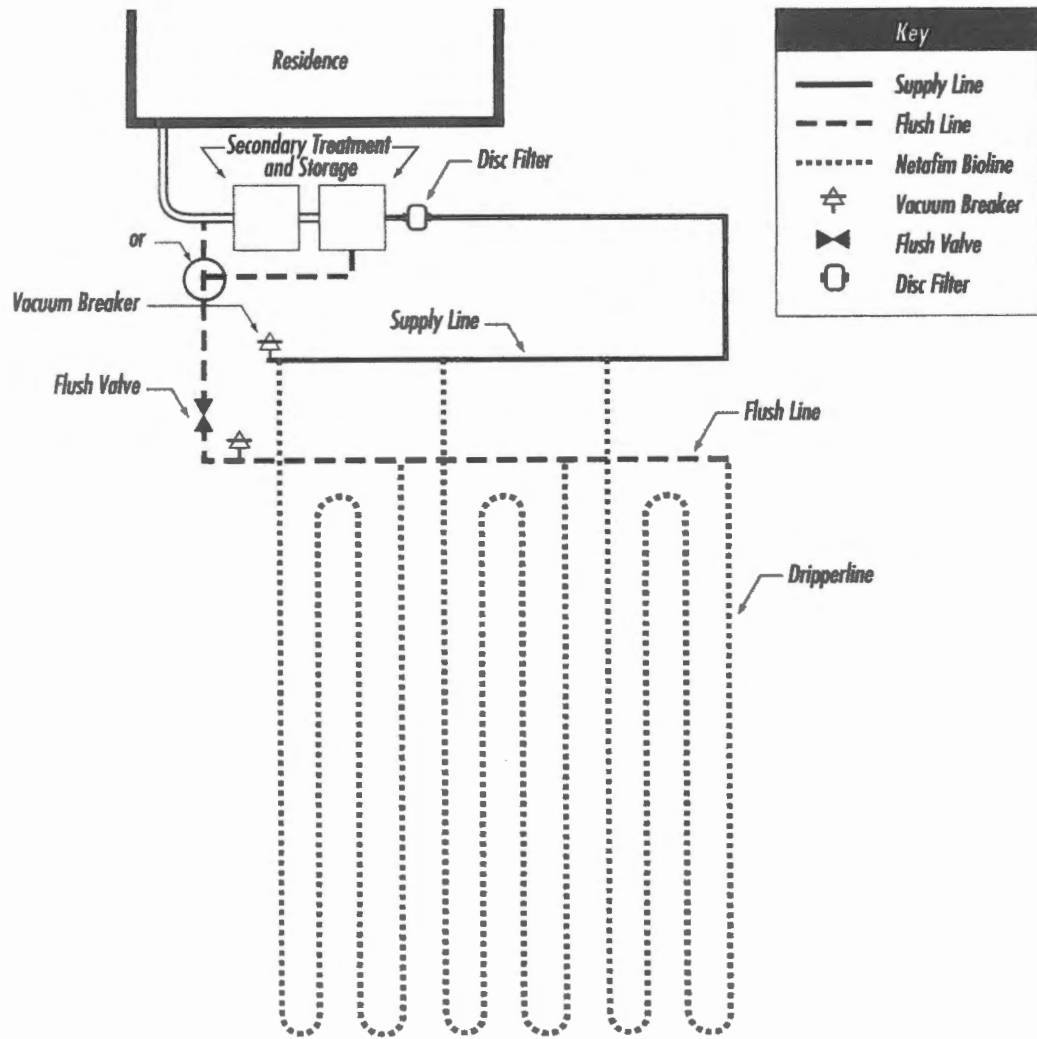
NETAFIM USA
 5470 E. Home Ave. • Fresno, CA 93727
 888.638.2346 • 559.453.6800
 FAX 800.695.4753
www.netafimusa.com

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

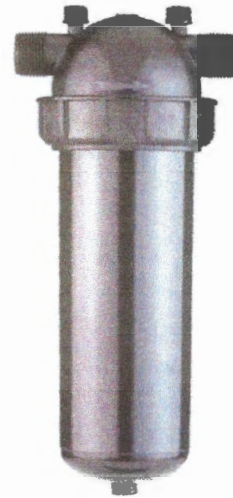


Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

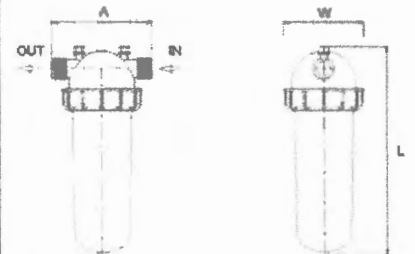
Features

- ♦ 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

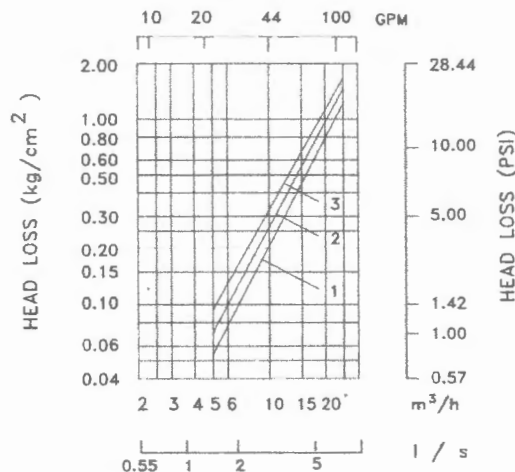
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m ³ /h (1.7 l/sec)	35 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
Filter length L	340 mm	13 13/32"
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
pH	5-11	5-11

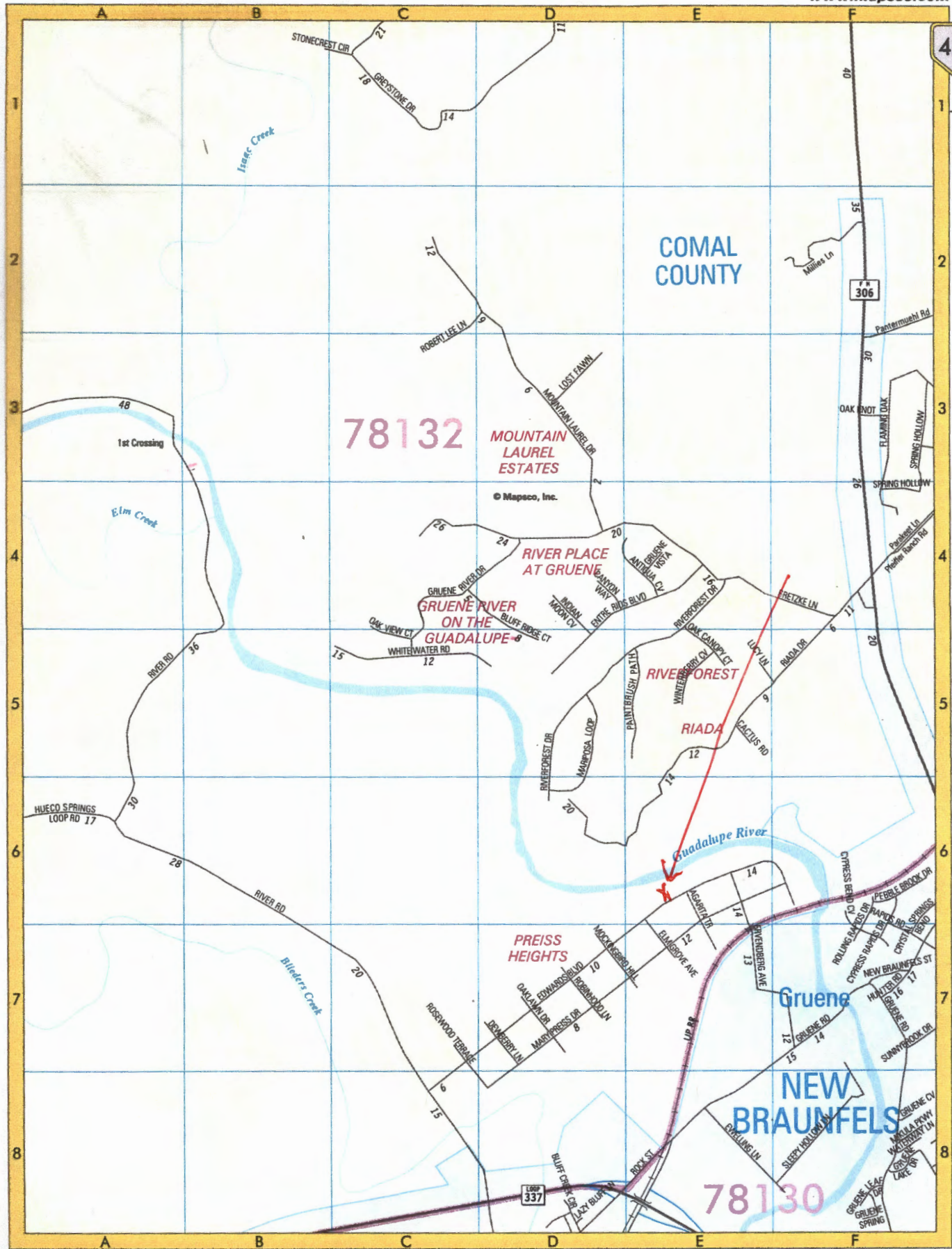


Filtration Grades

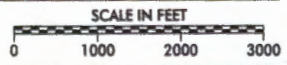
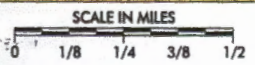
- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)

Head Loss Chart





CONTINUED ON MAP 425



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

Date September 17, 2018

VOID

Permit # 108158

Owner Name KARL M HANNER
Mailing Address 1287 EDWARDS BLVD
City, State, Zip NEW BRAUNFELS TEXAS 78132
Phone# 830-708-7617
Email shanner@satx.rr.com

Agent Name GREG W. JOHNSON, P.E.
Agent Address 170 HOLLOW OAK
City, State, Zip NEW BRAUNFELS, TX 78132
Phone # (830) 905-2778
Email gregjohnsonpe@yahoo.com

All correspondence should be sent to: [] Owner [X] Agent [] Both

Method: [] Mail [X] Email

Subdivision Name PREISS HEIGHTS Unit/Phase/Section Lot 7 Block 7

Acreage/Legal

Street Name/Address 1287 EDWARDS BLVD City NEW BRAUNFELS Zip 78132

Type of Development:

VOID

[X] Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) HOUSE w/ detached living

Number of Bedrooms 3+1

Indicate Sq Ft of Living Area 1873+800

[] Commercial or Institutional Facility

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants

Restaurants, Lounges, Theaters - Indicate Number of Seats

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds

Travel Trailer/RV Parks - Indicate Number of Spaces

Miscellaneous

Estimated Cost of Construction: \$ 50,000 (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

[] Yes [X] No (if yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water [] Public [X] Private Well

Are Water Saving Devices Being Utilized Within the Residence? [X] Yes [] No

By signing this application, I certify that:

- the completed application and all additional information submitted does not contain any false information and does not conceal any material facts.
-Authorization is hereby given to the permitting authority and designated agent upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities.

VOID

-I also understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.

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

Signature of Owner Karl M. Hanner

Date 09/18/18

REVISED

8:12 am, Aug 20, 2019

VOID

DRIP TUBING SYSTEM
DESIGNED FOR:
KARL M. HANNER
1287 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

SITE DESCRIPTION:

Located in Preiss Heights, Block 7, Lot 7, at 1287 Edwards Blvd, the proposed system will serve a three bedroom residence (1873sf.) & a one bedroom detached living (800sf) situated in an area with Type-III soil as described in the Soil Evaluation Report. 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-inch SCH-40 pipe discharges from the residence into a Maxx Air M-600 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768-gallon pump chamber containing a 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 3000sf. 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. 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 continuously flush the system by cycling a 1" ball valve. Solids caught in the spin filter are flushed each cycle back to the trash 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 ~2" 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: 300 GPD Table III

Pretreatment tank size: 353 Gal

Plant Size: Maxx Air M-600 600gpd (TCEQ Approved)

Pump tank size: 768 Gal

VOID

VOID

REVISED
8:12 am, Aug 20, 2019

Reserve capacity after High Level: 100 Gal (>1/3 day Req'd)
 Application Rate: Ra = 0.2 gal/sf
 Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf. (Actual 3000 sf.)
 Total linear feet drip tubing: 1500' *Netifim Bioline* drip tubing .61 GPH
 Pump requirement: 750 emitters @ .61 gph @ 30 psi = 7.625gpm
 Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump Dosing volume: 50-70 gal.
 Pump Tank Calculations: 768 Gal (14.5 gal/in.)
 Volume below working level = 15"= 218 gal
 Working level = 300 gal = 21"
 Reserve Requirement = >1/3 day = 100 gal. = 7"

VOID

MINIMUM SCOUR VELOCITY (MSV) IN DRIP TUBING W/ NOM. DIA


$MSV = 2 \text{ FPS } (\text{ID} \uparrow 2) / 4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$
 $MSV = 2(3.14159((.55/12) \uparrow 2) / 4) * 7.48 * 60$
 $MSV = 1.5 \text{ gpm MIN FLOW RATE } x 5 = 7.5 \text{ gpm}$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID
 $MSV = 2 \text{ FPS } (\text{ID} \uparrow 2) / 4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$
 $MSV = 2(3.14159((1.049/12) \uparrow 2) / 4) * 7.48 * 60$
 $MSV = 5.4 \text{ GPM}$

PIPE AND FITTINGS:

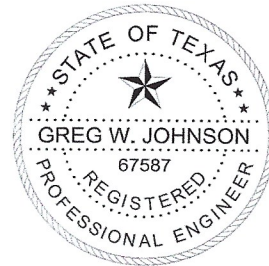
All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging. Drip tubing 0.61 gph drip tubing to be used in field.

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

 08/19/19

 Greg W. Johnson, P.E. No. 67587 - E-2585
 170 Hollow Oak
 New Braunfels, Texas 78132
 830/905-2778

VOID



#108158

GUADALUPE RIVER

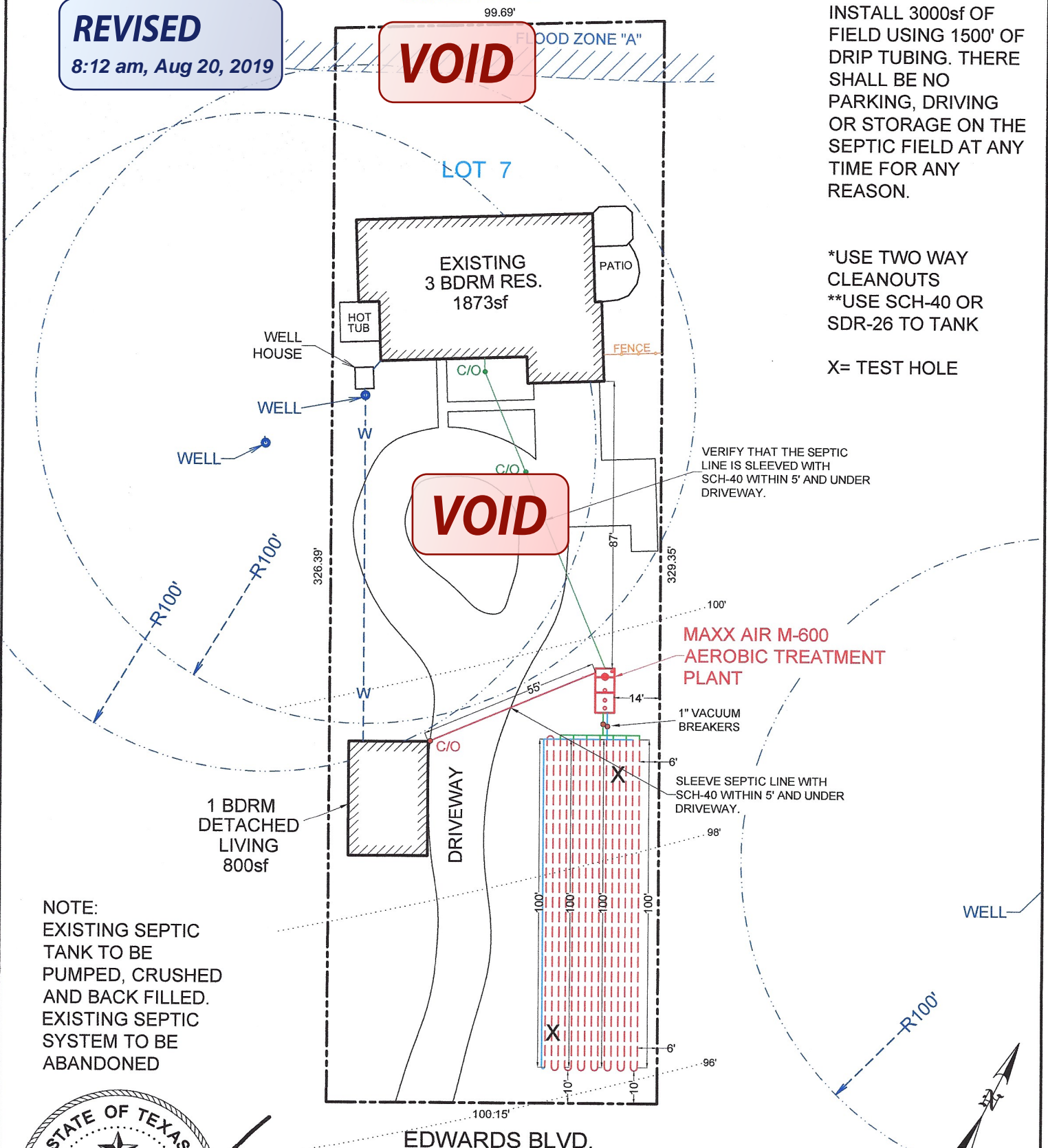
REVISED

8:12 am, Aug 20, 2019

INSTALL 3000sf OF FIELD USING 1500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE



NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED



OWNER:	KARL M. HANNON	DRAWN BY:	EJS III
STREET ADDRESS:	1287 EDWARDS BLVD.		
LEGAL DESC:	PREISS HEIGHTS	UNIT/SECTION/PHASE:	BLOCK: 7 LOT: 7
PREPARED BY:	GREG W. JOHNSON, P.E. F#002585	SCALE:	1"=40'
		DATE:	9/19/2018
		REVISED:	8/19/2019

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

VOID

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

Size of Septic System Required Based on Planning Materials & Soil Evaluation

Tank Size(s) (Gallons) NUWATER B-550-PC Absorption/Application Area (Sq Ft) 3000

Gallons Per Day (As Per TCEQ Table III) 300

(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.))

VOID

Is there an existing TCEQ approved WPAP for the property? Yes No

(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)

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 P.E. or R.S. 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: _____

VOID



FIRM #2585

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

September 24, 2018
Date

VOID

**DRIP TUBING SYSTEM
DESIGNED FOR:
KARL M. HANNER
1287 EDWARDS BLVD
NEW BRAUNFELS, TX 78132**

SITE DESCRIPTION:

Located in Preiss Heights, Block 7, Lot 7, at 1287 Edwards Blvd, the proposed system will serve a three bedroom residence (1873sf.) & a one bedroom detached living (800sf) situated in an area with Type-III soil as described in the Soil Evaluation Report. 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-inch SCH-40 pipe discharges from the residence into a NuWater B-550-400PT 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768-gallon pump chamber containing a 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 3000sf. 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. 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 continuously flush the system by cycling a 1" ball valve. Solids caught in the spin filter are flushed each cycle back to the trash 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 ~2" 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.**

VOID

DESIGN SPECIFICATIONS:

- Daily waste flow: 300 GPD Table III
- Pretreatment tank size: 353 Gal
- Plant Size: NuWater B-550-400PT 600gpd (TCEO Approved)
- Pump tank size: 768 Gal

VOID

VOID

Reserve capacity after High Level: 100 Gal (>1/3 day Req'd)
 Application Rate: Ra = 0.2 gal/sf
 Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf. (Actual 3000 sf.)
 Total linear feet drip tubing: 1500' *Netifim Bioline* drip tubing .61 GPH
 Pump requirement: 750 emitters @ .61 gph @ 30 psi = 7.625gpm
 Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump Dosing volume: 50-70 gal.
 Pump Tank Calculations: 768 Gal (14.5 gal/in.)
 Volume below working level = 15"= 218 gal
 Working level = 300 gal = 21"
 Reserve Requirement = >1/3 day = 100 gal. = 7"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS
 IN DRIP TUBING W/ NOM. DIA. 0.55" ID

MSV = 2 FPS $(\pi d^2) / 4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$
 MSV = $2(3.14159((.55/12)^2) / 4) * 7.48 * 60$
 MSV = 1.5 gpm MIN FLOW RATE x 5 = 7.5 gpm

VOID


IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

MSV = 2 FPS $(\pi d^2) / 4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$
 MSV = $2(3.14159((1.049/12)^2) / 4) * 7.48 * 60$
 MSV = 5.4 GPM

PIPE AND FITTINGS:

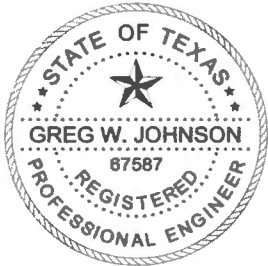
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Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission on Environmental Quality (Effective December 29, 2016)

 09/19/18

 Greg W. Johnson, P.E. No. 67587 - 82585
 170 Hollow Oak
 New Braunfels, Texas 78132
 830/905-2778

VOID



VOID

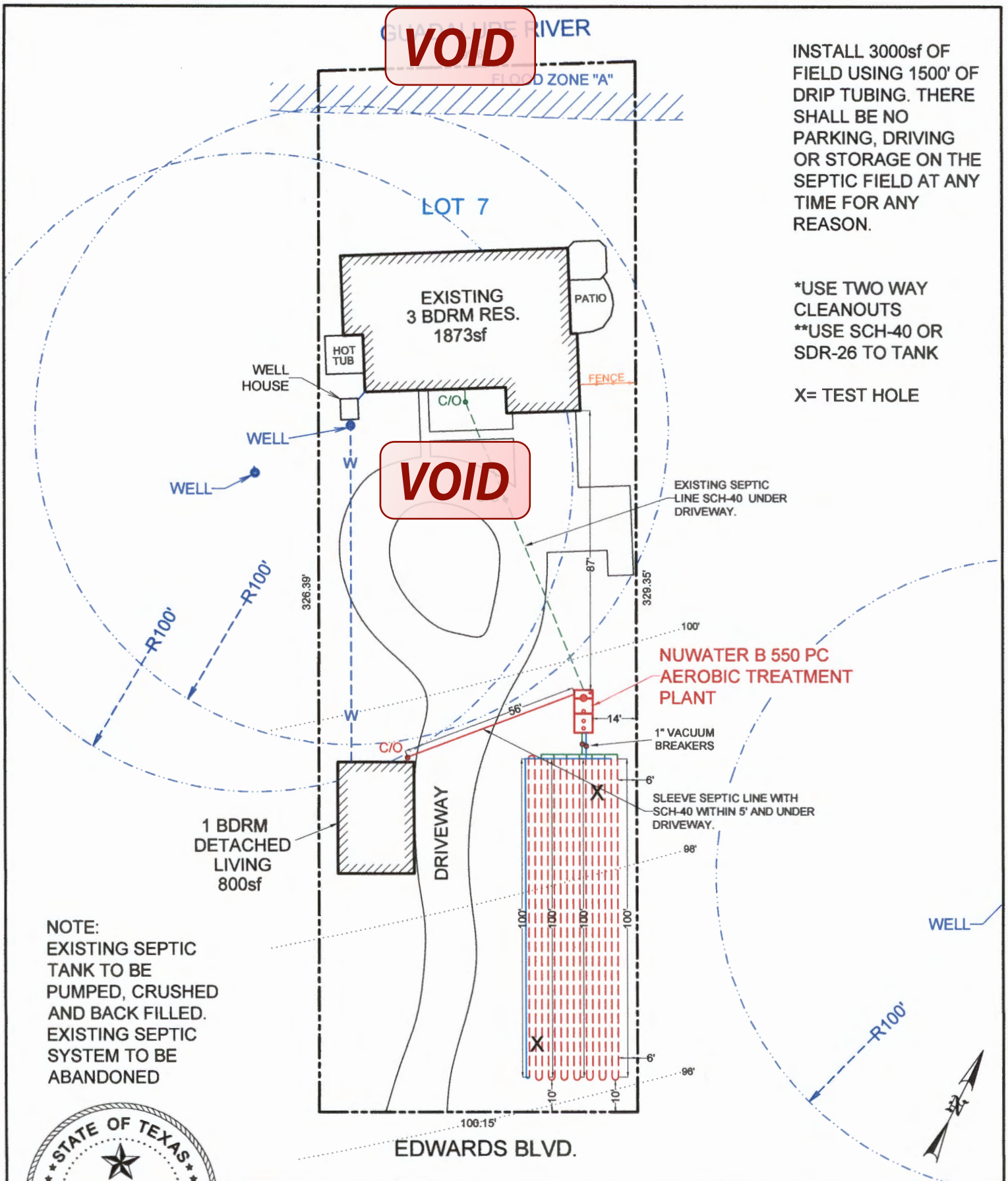
VOID

VOID

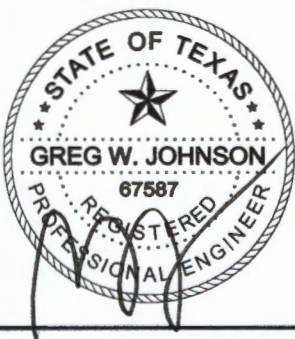
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EXISTING SEPTIC SYSTEM TO BE ABANDONED



OWNER:	KARL M. HANNER	DRAWN BY:	EJS III
STREET ADDRESS:	1287 EDWARDS BLVD.		
LEGAL DESC:	PREISS HEIGHTS	UNIT/SECTION/PHASE:	BLOCK: 7 LOT: 7
PREPARED BY:	GREG W. JOHNSON, P.E. F#002585	SCALE:	1"=40'
		DATE:	9/19/2018
		REVISED:	

VOID

TANK NOTES:

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

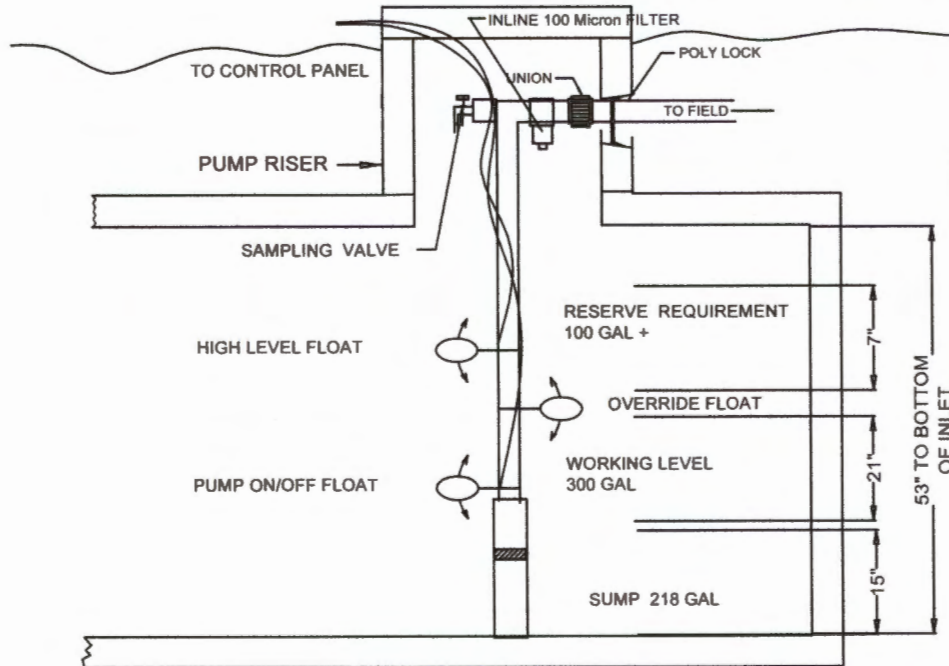
Tightlines to the tank shall be SCH-40 PVC.

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

VOID

ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE



Handwritten signature and date:
09/19/18

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

VOID

VOID

WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Regulatory Authority COMAL
Block Creek Aerobic Services, LLC
444 A Old Hwy #9
Comfort, TX 78013
Off. (830) 995-3189
Fax. (830) 995-4051

Permit/License Number _____
Customer KARL M. HANNER
Site Address 1287 EDWARDS BLVD
City NEW BRAUNFELS, Zip 78132
Mailing Address _____
County COMAL **Map #** 424 - E6
Phone 830-708-7617
Email shanner@satx.rr.com

2 YEAR CONTRACT
2 YEAR WARRANTY ON PARTS AND LABOR

Subd/Legal: PREISS HEIGHTS, BLOCK 7, LOT 7

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between KARL M. HANNER (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 LTO 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) 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.

VOID

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 within 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 excepted). Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

VOID

Kmh

BS

Customer's Initials

Contractor's Initials

VOID

V. Disinfection:

Not required; 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 Contractor immediately of an accident, 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 Contractor, 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.

KMH

VOID

VOID

BS

Customer's Initials

Contractor's Initials

THIS INDEMNIFICATION APPLIES EVEN IF THE INDEMNITIES ARE CAUSED BY THE CONCURRENT OR CONTRIBUTORY NEGLIGENCE OR BY THE NEGLIGENCE OF ANY INDEMNITEE.

VOID

Customer hereby waives its right of recourse as to any Indemnitee when Indemnification applies, and Customer shall require its 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 Indemnitee; 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 (by the 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.

VOID

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 Agreement 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.

Burt S. Sidman
Block Creek Aerobic Services, LLC,
Contractor
MC# 0000042 and MC#0000002

Karl M. Hanna 9/18/18
Customer Signature Date

VOID

[Signature]

Customer's Initials



BS

Contractor's Initials

DATE
9/1/94

LICENSE NO.
74477

**CCEO
COPY**



Comal County

OFFICE OF ENVIRONMENTAL HEALTH

LICENSE TO OPERATE A PRIVATE SEWAGE FACILITY

OWNER Carl Hanner	PROPERTY LOCATION PREISS HEIGHTS		
1257 EDWARDS BLDD.	UNIT	BLOCK	LOT B7

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to rules of Comal County, Texas, for private sewage facilities (rules).

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

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 issued under the authority of these rules is for an indefinite period. It shall be transferred to a succeeding owner. The license shall be transferred upon request of the new owner, provided the facility has not been substantially modified.

THE FACILITY IS LICENSED FOR

<input checked="" type="checkbox"/> SINGLE FAMILY RESIDENCE WITH	3	BEDROOMS AND	1860	SQUARE FEET.
<input type="checkbox"/> INSTITUTION				<input type="checkbox"/> LESS THAN 500 GALLONS PER DAY
<input type="checkbox"/> INSTITUTION				<input type="checkbox"/> GREATER THAN 500 GALLONS PER DAY
<input type="checkbox"/> OTHER ALTERNATIVE SYSTEMS				

THE FACILITY CONSISTS OF

GALLON TANK 1000	SWITCHING VALVE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	DRAINFIELD SIZE 627	SQUARE FT.	TRENCH XX	BED
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SPECIAL CONDITIONS

INSPECTOR <i>Pat Kriss</i>	ENV. HEALTH DEPT. OFFICER <i>Monica M. Hallae</i>
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*** CONAL COUNTY ***

APPLICATION FOR A PERMIT TO CONSTRUCT A PRIVATE SEWERAGE FACILITY AND LICENSE TO OPERATE

DATE 8-15-94 PRINT CLEARLY PERMIT NO.: 74477
PROPERTY OWNER'S NAME CARL HANNER PHONE NO. (HH) 625-1394
ADDRESS 410 BOBBY KRAFT PHONE NO. (WK) 625-1394
102 HILL HAVEN
NEW BRAUNFELS TX 78132 ZIP CODE

As call upon ready

DESCRIPTION OF PROPERTY: SUBDIVISION PREISS HEIGHTS
STREET NAME: 1287 EDWARDS BLVD UNIT LOT 7 BLK 7
IF NOT IN A SUBDIVISION, GIVE NAME OF ROAD/HWY. ACREAGE
LOCATION/DIRECTIONS/MAP TO PROPERTY IS ATTACHED PROOF OF OWNERSHIP ATTACHED ✓
PROPERTY LOCATED OVER EDWARDS RECHARGE ZONE? YES IF YES, WERE (4) PERC HOLES DUST? YES

TYPE OF DEVELOPMENT:
 SINGLE FAMILY RESIDENCE 3 DESIGNATED BRMS 1860 TOTAL SQ. FT. LIVING AREA
 COMMERCIAL. TYPE OF BUSINESS/INSTITUTION
NUMBER OF OCCUPANTS ESTIMATED GALLONS USED PER DAY
BUSINESS/INSTITUTION GENERATING MORE THAN 500 GALLONS PER DAY

SOURCE OF WATER: PUBLIC PRIVATE
IS AN ORGANIZED DISPOSAL SYSTEM WITHIN 300 FEET OF THE PROPOSED SYSTEM?

PERCOLATION TEST RESULTS AND DESIGN WERE COMPLETED BY: DOUGLAS R. DOWLEARN
SIZE OF SEPTIC SYSTEM REQUIRED BASED ON LIVING AREA: TANK SIZE 1000 GALLONS (DUAL TANK)
SIZE OF DRAINFIELD (BEDS) SQ. FT. TRENCHES 600 SQ. FT.
INSTALLER'S NAME: KRAUSE

I CERTIFY THAT THE COMPLETED APPLICATION AND ALL ADDITIONAL INFORMATION SUBMITTED DOES NOT CONTAIN ANY FALSE INFORMATION AND DOES NOT CONCEAL ANY MATERIAL FACTS. AUTHORIZATION IS HEREBY GIVEN TO THE LICENSING AUTHORITY AND AGENTS TO ENTER UPON THE ABOVE DESCRIBED PROPERTY FOR THE PURPOSE OF LOT/SOIL EVALUATION AND INSPECTION OF PRIVATE SEWERAGE FACILITIES. I ALSO UNDERSTAND THAT A PERMIT TO CONSTRUCT WILL NOT BE ISSUED UNTIL THE FLOOD PLAIN ADMINISTRATOR HAS APPROVED AND RELEASED THE DEVELOPMENT PERMIT FOR THIS PROPERTY.

ALL FEES ARE NON-REFUNDABLE

[Signature] SIGNATURE OF OWNER OR DESIGNATED AGENT IF SIGNED BY AGENT GIVE ADDRESS AND PHONE
102 Hill Haven NB 625-1394

OFFICE USE ONLY
DATE RECORDED IN BLUE BOOK AND ON SUMMARY SHEET 10/13/94 10/19/94
DATE LICENSE TO OPERATE WAS MAILED TO OWNER 9/16/94
(IF INSTALLATION IS DIFFERENT FROM DESIGN THE INSPECTOR HAS MADE A DESIGN OF ACTUAL INSTALLATION SIZES AS OF FINAL INSPECTION)

1000 TANK 2 - KR 500 DRAINFIELD (BEDS)
627 TOTAL SQ. FT. TRENCHES CHECK IF DIVERTER VALVE REQUIRED

INSPECTOR FOR CONAL COUNTY [Signature] P. Kniss DATE OF FINAL INSPECTION 1/9/94

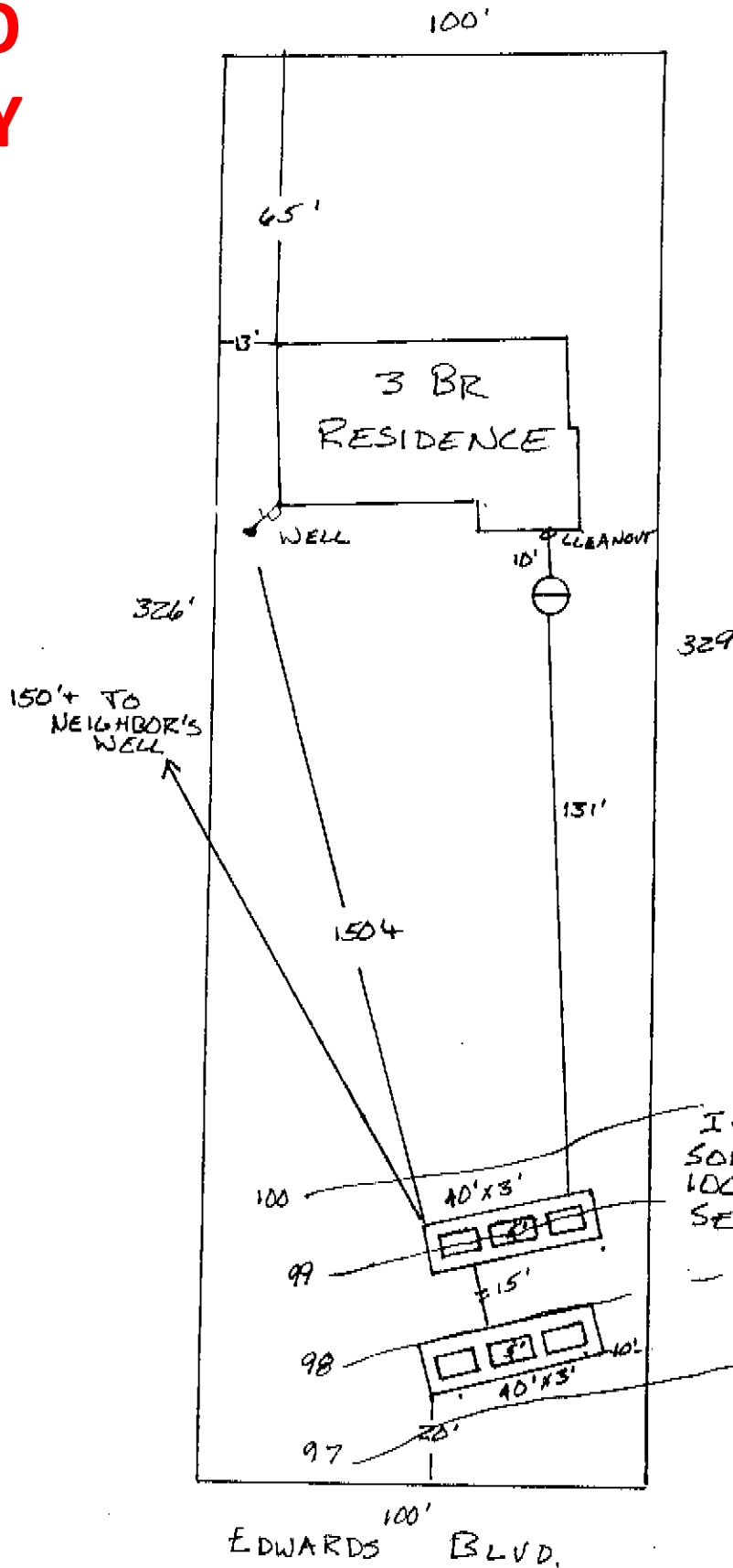
744.

74477

1"=40'

* PERC HOLES

**CCEO
COPY**



INSTALL 200 L.F. OF 36" WID
SOIL ABSORPTION TRENCH AND
1000 GAL TWO COMPARTMEN
SEPTIC TANK.

EDWARDS BLVD.

Dan B. Bunker

0923 0394

425890

STC 93806681 TRC \$11

GENERAL WARRANTY DEED

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

§

THAT DANIEL C. MOORE and wife, CAROLE INGRAM MOORE, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by KARL M. HANNER, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

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

Lot Seven (7), Block Seven (7), PREISS HEIGHTS, situated in Comal County, Texas, according to plat thereof recorded in Volume 105, pages 314-317, Deed Records of Comal County, Texas.

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

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

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

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

EXECUTED on this the 9th day of November, 1993.

FILED FOR THE
93 NOV 10 PM 3:29

BY SILESTER
COMAL COUNTY

[Handwritten Signature]

0923 0395

STATE OF TEXAS §

COUNTY OF COMAL §

This instrument was acknowledged before me on this the
day of November, 1993, by DANIEL C. MOORE and wife, CAROLE
INGRAM MOORE.

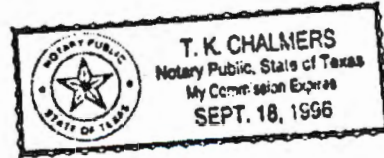
T. K. Chalmers

Notary Public in and for the
State of Texas.

GRANTEE'S MAILING ADDRESS:

2317 Windrift Way
Round Rock, Tx 78664

69.WP5



PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

Permit #: 108158

To: Paul Swoyer Septics, LLC
1287 Edwards Blvd
New Braunfels, TX 78132

Tech: Not Assigned
 Brand/Mfg.: MAXX AIR -
 System S/N:
 Aerator and S/N:

Contract: 8/22/2019 - 8/22/2022
 Inspections per year 3
 Service Due: 12/22/2019
 Alt Phone:
 Warranty Ending

Site: 1287 Edwards Blvd. New Braunfels
 Agency: Comal County
 County:
 Subdivision: Preiss Heights

Installed:
 Phone
 Cell:
 Work:

Inspection Type: _____ Inspection # _____ of _____ for the contract year

Item	Operational	Inoperative	N/A		
Aerator:	_____	_____	_____	1	12
Irrigation pump:	✓	_____	_____		
Air compressor:	✓	_____	_____		0
Disinfection device:	✓	_____	✓	2	
Chlorine supply:	✓	_____	✓		0
Spray field vegetation:	✓	_____	✓	3	
Sprinkler / Drip backwash:	✓	_____	_____		
Photocell Test:	_____	_____	✓		
Autodialer:	_____	_____	✓		
Water Meter Reading: _____	CFM: _____	PSI: _____			

Test Results and observations: (As Required)

Fecal Coliform: _____
 Chlorine Residual: _____
 Test Method: _____
 BOD: _____
 TSS: _____
 Commercial Lab: _____
 Date Submitted: _____

Repairs made: Y / N

Repairs and Comments:

SCUM 2

Inspector: _____ Date: _____

Area: / 0
 GPS: 29.7435 -98.1150 ID = 1351

Printed 12/5/2019

1287 Edwards Blvd, New Braunfels

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

Permit #: 108158

To: Home Owner
1287 Edwards Blvd
New Braunfels, TX 78132

Tech: Not Assigned
 Brand/Mfg: MAXX AIR -
 System S/N:
 Aerator and S/N:

Site: 1287 Edwards Blvd, New Braunfels
 Agency: Comal County
 County:
 Subdivision: Preiss Heights

Contract: 8/22/2019 - 8/22/2022
 Inspections per year: 3
 Service Due: 4/22/2020
 Alt Phone:
 Warranty Ending:

Inspection Type: _____ Inspection # ____ of ____ for the contract year

Item	Operational	Inoperative	N/A
Aerator:	_____	_____	____/____
Irrigation pump:	____/____	_____	_____
Air compressor:	____/____	_____	_____
Disinfection device:	____/____	_____	_____
Chlorine supply:	____/____	_____	_____
Spray field vegetation:	____/____	_____	_____
Sprinkler / Drip backwash:	____/____	_____	_____
Photocell Test:	_____	_____	____/____
Autodialer:	_____	_____	____/____
Water Meter Reading: _____ CFM: _____ PSI: _____			

1 - 16
 2 - 0
 3 - 1

Test Results and observations: (As Required)

Fecal Coliform: _____
 Chlorine Residual: _____
 Test Method: _____
 BOD: _____
 TSS: _____
 Commercial Lab: _____
 Date Submitted: _____

Repairs made: Y / N

Repairs and Comments: *scum = 3*

Inspector: _____ Date: _____

Area: / 0
 GPS: 29.7435 -98.1150 ID = 1351

Printed: 4/24/2020

1287 Edwards Blvd, New Braunfels

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

To: Home Owner
1287 Edwards Blvd
New Braunfels, TX 78132

Printed: 8/28/2020
Site: 1287 Edwards Blvd
New Braunfels, TX 78132

Permit #: **108158**

Agency: Comal County

County:

Mfg / Brand: - MAXX AIR

Treatment Type: Aerobic

Disposal: Drip Emitters

Sub: Preiss Heights

Customer ID: 1351

Contract Dates: 8/22/2019 - 8/22/2022

Scheduled Date: 8/22/2020

Inspection 3 of 9

GPS Coordinates - Latitude: 29.7435 Longitude: -98.1150

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 8/26/2020

Entered By: _

Method: Grab

Technician: Ryan Seidensticker

Maint. Provider: Ryan Seidensticker

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Sludge Levels

For Tank 1: 10

For Tank 2: 2

For Tank 3: 4

Tank Lid / Riser: Secured

Sprinkler Drip Backwash: Good

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

Comments

Scum on pretreatment:5"- Technician Secured the Tank Lid and/or Riser prior to leaving location.

Service Completed

Insp ID #:5615

Provider: Christopher Ryan Seidensticker
PS Septic Supply & Service

License Info: MP0001708 Expires:

Technician: Christopher Ryan Seidensticker
PS Septic Supply & Service

License Info: MP0001708 Expires: 9/1/2023

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

To: Sue Hanner
1287 Edwards Blvd
New Braunfels, TX 78132

Printed: 4/6/2021
Site: 1287 Edwards Blvd
New Braunfels, TX 78132
(830) 708-5528

Permit #: **108158**

Agency: Comal County
County:

Sub: Preiss Heights

Customer ID: 1351

Contract Dates: 8/22/2019 - 8/22/2022

Scheduled Date: 4/22/2021

Inspection 5 of 9

Mfg / Brand: - MAXX AIR
Treatment Type: Aerobic
Disposal: Drip Emitters

GPS Coordinates - Latitude: 29.7435 Longitude: -98.1150

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 4/5/2021

Entered By: _

Method: Grab

Technician: Landon Gronvold

Maint. Provider: Ryan Seidensticker

Aerators: Operational

Sludge Levels

Filters: Operational

For Tank 1: 20

Irrigation Pumps: Operational

For Tank 2: 2

Disinfection Device: Operational

For Tank 3: 10

Chlorine Residual: N/A

Tank Lid / Riser: Secured

Sprinkler Drip Backwash: Good

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

Comments

Scum on pretreatment: 12" - Technician Secured the Tank Lid and/or Riser prior to leaving location.

Service Completed

Owner signature: _____

Insp ID #: 8835

Provider: Christopher Ryan Seidensticker
PS Septic Supply & Service

License Info: MP0001708 Expires:

License Info: MT0001995 Expires: 10/31/2021

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

To: Sue Hanner
1287 Edwards Blvd
New Braunfels, TX 78132

Printed: 8/19/2021
Site: 1287 Edwards Blvd
New Braunfels, TX 78132
(830) 708-5528

Permit #: **108158**

Agency: Comal County
County:

Sub: Preiss Heights

Customer ID: 1351

Contract Dates: 8/22/2019 - 8/22/2022

Scheduled Date 8/22/2021

Inspection 6 of 9

Mfg / Brand: - MAXX AIR
Treatment Type: Aerobic
Disposal: Drip Emitters

GPS Coordinates - Latitude: 29.7435 Longitude: -98.1150

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 8/18/2021

Entered By: Danielle Jordan

Method: Grab

Technician: Landon Gronvold

Maint. Provider: Ryan Seidensticker

Aerators: Operational

Sludge Levels

Filters: Operational

For Tank 1: 24

Irrigation Pumps: Operational

Disinfection Device: Operational

For Tank 3: 6

Tank Lid / Riser: Secured

Sprinkler Drip Backwash: Good

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

Comments

Scum on pretreatment 12" - Technician Secured the Tank Lid and/or Riser prior to leaving location.

Service Completed

Owner signature: _____

Insp ID #: 11346

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

License Info: MP0001708 Expires:

License Info: MT0001995 Expires: 10/31/2021

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

To: Sue Hanner
1287 Edwards Blvd
New Braunfels, TX 78132

Printed: 12/6/2021
Site: 1287 Edwards Blvd
New Braunfels, TX 78132
(830) 708-5528

Permit #: **108158** Customer ID: 1351
Agency: Comal County Contract Dates: 8/22/2019 - 8/22/2022
County: Sub: Preiss Heights Scheduled Date: 12/22/2021 Inspection 7 of 9
Mfg / Brand: - MAXX AIR
Treatment Type: Aerobic
Disposal: Drip Emitters GPS Coordinates - Latitude: 29.7435 Longitude: -98.1150

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 12/3/2021

Entered By: Danielle Jordan

Method: Grab

Technician: Robert Podvin

Maint. Provider: Ryan Seidensticker

Aerators: Operational
Filters: Operational
Irrigation Pumps: Operational
Disinfection Device: Operational

Sludge Levels
For Tank 1: 13
For Tank 2: 12
For Tank 3: 1

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

Tank Lid / Riser: Secured

Sprinkler Drip Backwash: Good

Color: Good
Odor: Good

Alarm: Operational

Comments

Service Completed

Scum - 11" - Technician Secured the Tank Lid and/or Riser prior to leaving location.

Insp ID #:13447

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

License Info: MP0001708 Expires:

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

To: Sue & Karl Hanner
1287 Edwards Blvd
New Braunfels, TX 78132

Printed:4/13/2022
Site: 1287 Edwards Blvd
New Braunfels, TX 78132
(830) 708-5528

Permit #: **108158** Customer ID: 1351
Agency: Comal County Contract Dates: 8/22/2019 - 8/22/2022
County: Sub: Preiss Heights Scheduled Date: 4/22/2022 Inspection 8 of 9
Mfg / Brand: - MAXX AIR
Treatment Type: Aerobic
Disposal: Drip Emitters GPS Coordinates - Latitude: 29.7435 Longitude: -98.1150

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 4/12/2022

Entered By: Michelle Irvin

Method: Grab

Technician: Nick Zigalo

Maint. Provider: Ryan Seidensticker

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Tank Lid / Riser: Secured

Sprinkler Drip Backwash: Good

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

Comments

Scum = 0" - Technician Secured the Tank Lid and/or Riser prior to leaving location.

Service Completed

Insp ID #:16957

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

License Info: MP0001708 Expires:

License Info: MT0002016 Expires: 12/31/2023

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

To: Sue & Karl Hanner
1287 Edwards Blvd
New Braunfels, TX 78132

Printed:9/8/2022
Site: 1287 Edwards Blvd
New Braunfels, TX 78132
(830) 708-5528

Permit #: **108158** Customer ID: 1351
Agency: Comal County Contract Dates: 8/22/2022 - 8/22/2023
County: Sub: Preiss Heights Scheduled Date: 8/22/2022 Inspection 1 of 3
Mfg / Brand: - MAXX AIR
Treatment Type: Aerobic
Disposal: Drip Emitters GPS Coordinates - Latitude: 29.7435 Longitude: -98.1150

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 9/8/2022

Entered By: _

Method: Grab

Technician: Not Assigned

Maint. Provider: Ryan Seidensticker

Aerators: Operational

Sludge Levels

Filters: Operational

For Tank 1: 2

Irrigation Pumps: Operational

Disinfection Device: Operational

For Tank 3: 4

Electric Circuits: Operational

Tank Lid / Riser: Secured

Distribution System: Operational

Insp. Port / Plug: Secured

Sprayfield Veg: Operational

Alarm: Operational

Comments

Service Completed

- Scum on pretreatment 10 - Cleaned drip filter and backflushed drip field - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving.

Insp ID #:20669

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

License Info: MP0001708 Expires:

PS Septic Supply & Service
23011 FM 306
Canyon Lake, TX 78133

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

Printed: 1/9/2023

Insp ID #: 24536

Permit #: **108158**

To: Sue & Karl Hanner
1287 Edwards Blvd
New Braunfels, TX 78132

Main Phone: (830) 708-5528

Work:

Cell Phone: (830) 708-7617

Alt Cell:

Customer ID: 1351

Contract Dates: 8/22/2022 - 8/22/2023

Scheduled Date: 12/22/2022

Inspection 2 of 3

Installed: 3/12/2020

Warranty End: 3/12/2023

Agency: Comal County

County: Comal County

Mfg / Brand: - MAXX AIR

Sub: Preiss Heights

Treatment Type: Aerobic

Disposal: Drip Emitters

GPS Coordinates: Latitude: 29.7435 Longitude: -98.1150

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Entered By: Ashley Spitzenberger

Visit Date: 1/6/2023

Copy emailed to Customer

Customer Emailed: 1/9/2023

Method: Grab

Technician: Not Assigned

Maint. Provider: Ryan Seidensticker

Aerators: Operational

Sludge Levels

Filters: Operational

Irrigation Pumps: Operational

For Tank 2: NA

Disinfection Device: Operational

For Tank 3: 2

For Tank 4: 2

Electric Circuits: Operational

Tank Lid / Riser: Secured

Distribution System: Operational

Insp. Port / Plug: Secured

Sprayfield Veg: Operational

Alarm: Operational

Comments

Service Completed

- Scum on pretreatment 2 - Cleaned drip filter and backflushed drip field - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving. - Copy emailed to the customer on 1/9/2023.

Site: 1287 Edwards Blvd, New Braunfels, TX 78132

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

License Info: MP0001708 Expires: