

Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: **07/02/2019** Permit Number: **108640**

Location Description: 1105 MARINE CIR
CANYON LAKE, TX 78133
Subdivision: Canyon Lake Island
Unit:
Lot: 154R
Block:
Acreage:

Type of System: Aerobic
Surface Irrigation

Issued to: Janis & Mark Reis

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


ENVIRONMENTAL HEALTH INSPECTOR

OS0032485


ENVIRONMENTAL HEALTH COORDINATOR

OS0007722

Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Rusty Reedy OSSF Installer #: 050030229
 1st Inspection Date: 5-22-19 2nd Inspection Date: 5-29-19 3rd Inspection Date: 7-2-19 final
 Inspector Name: Coma Inspector Name: Coma Inspector Name: Coma
 Permit#: 108640 Address: 1105 Marine Circle Lake Island

No.	Description	Assess	Checklist	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials	✓	285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	✓	285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)	<i>existing aerobic unit</i>			
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)(ii) 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)(iii) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(i)				
7	PRETREATMENT Grease Interceptors If required for commercial		285.34(d)				

2 EQ tanks installed per plan no leaks set and level cover. Tank check only.
5-29-19 fall from existing tank → E.Q - good - cover needs final operational
Covered & operational SC 7-2-19

**Comal County Environmental Health
OSSF Inspection Sheet**

Final

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	✓	285.33(d)(2)(G)(iii)(ii) 285.33(d)(2)(G)(iii)(iii) 285.33(d)(2)(G)(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)				✓
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)	<i>Covered & operational</i>			✓ ✓ ✓
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						

Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Rusty Reedy OSSF Installer #: 050030229
 1st Inspection Date: 5-22-19 2nd Inspection Date: 5-29-19 3rd Inspection Date: _____
 Inspector Name: Coma Inspector Name: Coma Inspector Name: _____
 Permit#: 108640 Address: 1105 Marine Circle Lake Island

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)				
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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)	"			
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)				

2 EQ tanks installed per plan no leaks set and level cover. Tank check only.
 5-29-19 fall from existing tank → E.Q - good - cover needs final operational

Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Rusty Reedy OSSF Installer #: 050030229

1st Inspection Date: 15-22-19 2nd Inspection Date: _____ 3rd Inspection Date: _____

Inspector Name: _____ Inspector Name: _____ Inspector Name: _____

Permit#: 108640 Address: 1105 Marine Circle Lake Island

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)				
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7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

2 EQ tanks installed per plan no leaks set and level cover. Tank check only.

**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)(II) 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)	2 E.Q. tanks installed per plan - cover	✓		
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			existing aerobic unit			
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
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(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
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)	<i>aerobic spray</i>	/		
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.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B) 285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
33	AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)	<i>existing unit</i>			
34	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions			11			
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.			11			
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**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II)285.33(d)(2)(G)(iii)(III)285.33(d)(2)(G)(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)				
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						



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: 108640
Issued This Date: 02/20/2019
This permit is hereby given to: Janis & Mark Reis

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

1105 MARINE CIR
CANYON LAKE, TX 78133

Subdivision: Canyon Lake Island
Unit:
Lot: 154R
Block:
Acreage:

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic
Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.

* The conditions associated with enforcement case 102821 are still in effect.

REVISED

12:58 pm, Feb 20, 2019

Enforcement

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

Date _____ Permit # 108640

Owner Name JAVIS & MARK REIS Agent Name Hoyt Seidensticker
Mailing Address 27302 SPIRAL CANYON Agent Address 1922 FM 473
City, State, Zip SAN ANTONIO, TEXAS City, State, Zip Boerne, Tex. 78006
Phone # 210-412-5989 Phone # 210-414-6603
Email markreis1946@gmail.com Email hoyt@qvtc.com

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

Subdivision Name CANYON LAKE ISLAND Unit _____ Lot 154 R Block _____
Acreage/Legal Vol. 11 PG 391 MPRCCT
Street Name/Address 1105 MARINE CIRCLE City CANYON LAKE Zip 78133

Type of Development:

Single Family Residential
Type of Construction (House, Mobile, RV, Etc.) House
Number of Bedrooms _____
Indicate Sq Ft of Living Area 2734

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JAN 17 2019

COUNTY ENGINEER

Commercial or Institutional Facility

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

Type of Facility Rental for 10 people @ 60 gallons/person 600 GPD

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: \$ N/A (Structure Only)

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

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

Source of Water Public Private Well

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

By signing this application, I certify that:

- The completed application and all additional information submitted does not contain any false information and does not conceal any material facts.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities.
- I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the 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.

Javis Reis
Signature of Owner

1/17/19
Date

REVISED

2:49 pm, Jun 14, 2019

10:20 am, Apr 10, 2019

12:56 pm, Feb 20, 2019

10:10 am, Feb 20, 2019

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 Hoyt Seidenfeld ^{HR} 4-9-19

System Description Aerobic with Spray Distribution 6950.95

Size of Septic System Required Based on Planning Materials & Soil Evaluation
3000 Gallon ERTank 6962.95

Tank Size(s) (Gallons) 600 GPD ATU Absorption/Application Area (Sq Ft) 6712.95

Gallons Per Day (As Per TCEQ Table III) 428 600 GPD HR ^{HR} 2-20-19
(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 7767.32
(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 6-14-19
(If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.) ^{HR}

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? Yes No

Is there an existing TCEQ approval CZP for the property? Yes No
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____

By signing this application, I certify that:
- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Designer Hoyt Seidenfeld Date 1-14-18

JCS

AFFIDAVIT TO THE PUBLIC



201606039889 10/20/2016 09:50:59 AM 1/2

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

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):

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OCT 25 2016

Lot 154R, Canyon Lake Island Subdivision

COUNTY ENGINEER

The property is owned by (insert owner's full name): 1105MarineCircleReis, LLC

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.

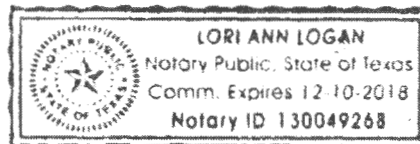
WITNESS BY HAND(S) ON THIS 15 DAY OF September, 2016

Mark S. Reis
Owner(s) signature(s)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 15 DAY OF September 2016

Lori Ann Logan
Notary Public, State of Texas

Notary's Printed Name: Lori Ann Logan
My Commission Expires: 12-10-2018





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OCT 25 2016

COUNTY ENGINEER

This page has been added to comply with the statutory requirement that the clerk shall stamp the recording information at the bottom of the last page.

This page becomes part of the document identified by the file clerk number affixed on preceding pages.

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
10/20/2016 09:50:59 AM
TERRI 2 Page(s)
201606039889



Bobbie Koepf

RECEIVED

OCT 25 2016

Regulatory Authority WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT
 Permit/License Number _____
 Block Creek Aerobic Services, LLC Customer 1105 Marine Circle Reis, LLC COUNTY ENGINEER
 444 A Old Hwy #9 Site Address 1105 Marine Circle
 Comfort, TX 78013 City Canyon Lake, TX 78133
 Off. (830) 995-3189 Mailing Address 27302 Spiral Canyon, SA, TX 78261
 Fax. (830) 995-4051 County Comal Map # _____
 Phone 210.493.2323 - DAH Builders, LLC
 Email hang@dah.builders

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between **1105 Marine Circle Reis, LLC** (hereinafter referred to as "Customer") and Block Creek Aerobic Service, LLC. By this agreement, Block Creek Aerobic Service, LLC and its employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein.

II. Effective Dates: This Agreement commences on 2018 **LTO 2016** and end on _____ for a total of two (2) years (initial agreement) or one (1) year (there after). If this is an initial agreement (new installation), the Customer will notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

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

IV. Services: Contractor will:

- a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year.
- b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel.
- c. Repair or replace, if Contractor has necessary materials at site, any component of the OSSF to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and services costs are \$100.00, or less. Customer hereby authorizes Contractor to perform the service and bill Customer for said service. When service costs are greater than \$100.00, or if contractor does not have necessary supplies at the site. Contractor will notify Customer of required service(s) and associated cost(s). Customer must notify Contractor of arrangements to affect repair of system with two (2) business days after said notification.
- d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).
- e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.
- f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

V. Disinfection: Not required XX required. The responsibility to maintain the disinfection device(s) and provide any necessary chemicals is that of the Customer. MRP (Initial)

V. Electronic Monitoring is not included in this Agreement.

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

- a. If this is an initial Agreement (new installation):
 - i. Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.
 - ii. Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of this Agreement.
- b. If this is not an initial Agreement (existing system):
 - i. Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.
 - ii. Contractor's receipt of payment of the wastewater-monitoring fee in accordance with the terms as described in Section XIV of this Agreement.
- c. If the above conditions are not met, Contractor is not obligated to perform any portion of this Agreement.

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

- 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 limitation of that license, and all requirements for and OSSF from the State and/or local regulatory agency, whichever are more stringent, as well as proprietary system's manufacturer recommendations.
- d. Notify Contactor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.
- e. Provide, upon request by Contractor, water usage records for evaluation by Contractor as to 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 evaluation the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section V, sub-section d. above. Customer agrees to pay contractor for 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. Notify for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at Customer's expense.
- j. Maintain site drainage to prevent adverse effects on the OSSF.
- k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

RECEIVED
OCT 25 2016

COUNTY ENGINEER

X. 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. Initial _____ It is customers responsibility to keep lids exposed and accessible at all times

VIII. 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.

IX. 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.

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

XI. Payment: Full amount due upon signature (Required of new Customer). Payment of invoice(s) for any other service or repair provided by contractor in due upon receipt of invoice. Invoices are mailed 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.

XII. Application or Transfer of payment: The fees paid for this agreement may transfer to the subsequent property owner(s); however this Agreements not transferable. Customer will advise 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.

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

Block Creek Aerobic Service MC# 0000042 MC#0000002

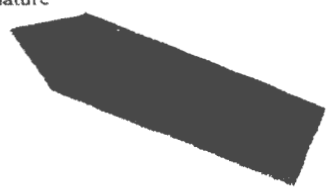
Customer Signature

Date

[Handwritten Signature]

9/15/16

Burt Bidner



6/14/2019
12:45 PM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

Mark and Janis Reis

108640
REVISED
2:49 pm, Jun 14, 2019

Property Information:

St. Address: 1105 Marine Circle
City: Canyon Lake State: Texas
Zip code: 78133

Predicted Quantity of Sewage (Q)

Water Saving Devices in Home (y/n): yes
Gallons/day (Q): 428
Greywater included (yes/no): yes

Rate of Adsorption (Ra)

Application rate (g/sq. ft.): 0.064
Minimum Adsorptive Area (sq. ft.): 6687.5

Aerobic Unit

Required size of aerobic unit: 600 gpd
Pretreatment Tank (gallons): 353
Class 1 Aerobic Unit:: NuWater 550-PC-400PT
Pump tank total capacity (gal): 768
Chlorination: Liquid installed in Tank
Pump Switch operation: Float system
Dosing cycle quantity (gals): Varied
Cycling time: night time
Pump size and capacity: Franklin E-Series 20 GPM

House Information

No. of Bedrooms: see below
Sq. footage (Approx.): see below
gallons per day 428
Water Supply: public

Supply Line from House

Length of supply line (approx. ft): 27
Type of supply line: SCH 40 PVC
Size of Supply line (in): 3 or 4

Supply Line For Spray Irrigation System

Length of supply line (approx. ft): 172
Type of supply line: SCH 40 PVC
Size of supply line (in): 1

Disposal Area per this System

$\pi (36)^2/2 = 2034.72$
 $\pi (36)^2/2 = 2034.72$
 $\pi (36)^2/2 = 2034.72$
 $\pi (36)^2/2 = 2034.72$
 $\pi (28)^2/4 = 615.44$

minus overlap 987

Total irrigated area (sq. ft.): 7767.32

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions.

All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker
Hoyt Seidensticker, R.S. No. 3588

6-14-19
Date

Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006
Cell (210) 414-6603,



Effective Immediately: If any change(s) are made that require a revision to this design, a \$150.00 fee will be assessed. This includes, but not limited to, change(s) in the house size, number of bedrooms, location of house or one type of system to another.

6/14/2019
12:45 PM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

REVISED
2:49 pm, Jun 14, 2019

Mark and Janis Reis

Head Pressure

Elevation Head:	<u>4</u>
Pressure Head:	<u>92</u>
Friction Head:	<u>6.88</u>
Total head:	<u>102.9</u>

Sprinkler Head Information

K-Rain sprinkler head PROPLUS, low angle nozzle	No. 3 @40psi	GPM:	<u>3.1</u>
	Number of sprinkler heads:		<u>5</u>
	Gallons per minute:		<u>15.5</u>

This design will be for a rental venue for up to 10 people. Will calculate the flow by using 60 gallons per person for Friday, Saturday and Sunday. Will use 300 gpd for Monday thru Thursday. Will use the weekly averaging, because a flow equalization tank will be installed in front of the existing 600 gpd aerobic unit. Therefore the Monday through Thursday total is 1200 gallons and the Friday through Sunday is 1800 gallons. The total for the week is 3000 gallons and when we divide by 7 days we get 428 gallons per day. Therefore the spray distribution will be based on 428 gallons per day instead of 600 gallons per day. The 600 gpd aerobic unit that is installed will be capable of handling the 428 gallons per day since the equalization tank will be equipped with a pump to dose the aerobic unit 24 hours a day even when no flow is going to the equalization tank.

Effluent from the house will flow to the pretreatment tank of the aerobic unit. This will meet the rules of effluent must go through a pretreatment tank. A Hole will be inserted in the side of the aerobic unit tank from the pretreatment tank. Schedule 40 pvc will be installed from the pretreatment tank to the newly installed 2 1500 gallon concrete tanks that will be plumbed together. The 3000 gallon equalization/dosing tank will be utilized as an equalization tank. It will collect and store the uneven flows from the building during the day. The 3000 gallon tank will also serve as a dosing tank to dose the aerobic unit. The timer will be set up to dose the aerobic unit all day long including during the night time when there is no flow going to the 3000 tank. The timer will be set to dose the 428 gallons every 24 hour period. Therefore, at the beginning of each day the tank will be empty ready to hold another days flow. The tank will not be completely dry. There will be enough water to cover the pump so the pump stays submerged in water.

A (liberty PRG-series grinder pump) or equivalent will be installed in the 3000 gallon equalization/dosing tank and set to dose the aerobic unit every three hours with 53.5 gallons. This will be accomplished by flow control valves. The valves will be set by timing the amount of gallons discharged to the aerobic unit. The valves will be adjusted to get the proper flow to the aerobic units. The pumps shall be capable to pump up to 15 gpm at 16 ft of head pressure.

Hoyt Seidensticker

Hoyt Seidensticker, R.S. No. 3588

6-14-19

Date



Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006
Cell (210) 414-6603

6/14/2019
12:45 PM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

Mark and Janis Reis

REVISED

2:49 pm, Jun 14, 2019

A cyclic counter will be installed on the dosing pump to measure the number of times the pumps come on. A elapsed time meter will be installed on the dosing pump to measure the run time of the pumps. The counter and meter will be used to calculate the volume of effluent being dosed to the aerobic units. The counter and meter will be read by the maintenance provider when he conducts his inspection.

A water meter will be installed on the line from the pump tank to the spray field. It is recommended that the meter be read once a week to give the maintenance provider an idea of water usage. The water meter shall be read by the maintenance provider when he conducts his inspection.

A class 1 aerobic wastewater treatment unit, chlorination and spray distribution system will be designed for this location. Wastewater from the residence will flow to a pretreatment/trash tank, then to the treatment unit. Treated effluent will be disinfected by a Chlorination Station 200-1500 Unit in the pump tank, before being disposed of through above ground sprinkler heads. All warning systems shall be installed with the aerobic unit

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

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

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.


Hoyt Seidensticker, R.S. No. 3588

6/14/19
Date

Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006
Cell (210) 414-6603



6/14/2019
12:45 PM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

Mark and Janis Reis

REVISED
2:49 pm, Jun 14, 2019

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

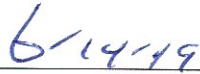
At every inspection a Total Chlorine Residual test must be conducted on the effluent in the pump tank and must be a minimum acceptable level of .1 mg/l residual.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.



Hoyt Seidensticker, R.S. No. 3588

Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006
Cell (210) 414-6603



Date



Site Map

Aerobic with Spray Distribution System

Mark L and Janis R Reis

Lot 154R, Canyon

Lake Island

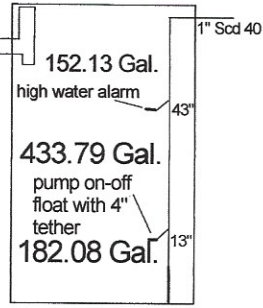
1105 Marine Circle

Canyon Lake, Texas 78133

Comal County

REVISED

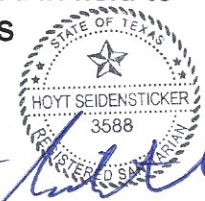
2:49 pm, Jun 14, 2019



Scale 1" = 50'

location of sprinkler heads may be adjusted in field to avoid obstacles

6/14/19



Hoyt Seidensticker

I hereby request a variance to the 20 foot setback to property lines as required by Comal County Order to a 10' setback to property lines as required by TCEQ, Chapter 285 and equivalent protection will be maintained by adding a battery backup to the timer clock or photo cell activated timer to assure sprayers to only spray during the predawn hours. In my professional opinion this variance will not pose a threat to the environment or public health.

Risers must be permanently fastened to the tank lid or cast into the tank. The connection between the riser and the tank lid must be watertight. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be removed with specialized tools, a cover having a minimum net weight of 29.5 kilograms (65 pounds) set into a recess of the tank lid, or any other means approved by the executive director.

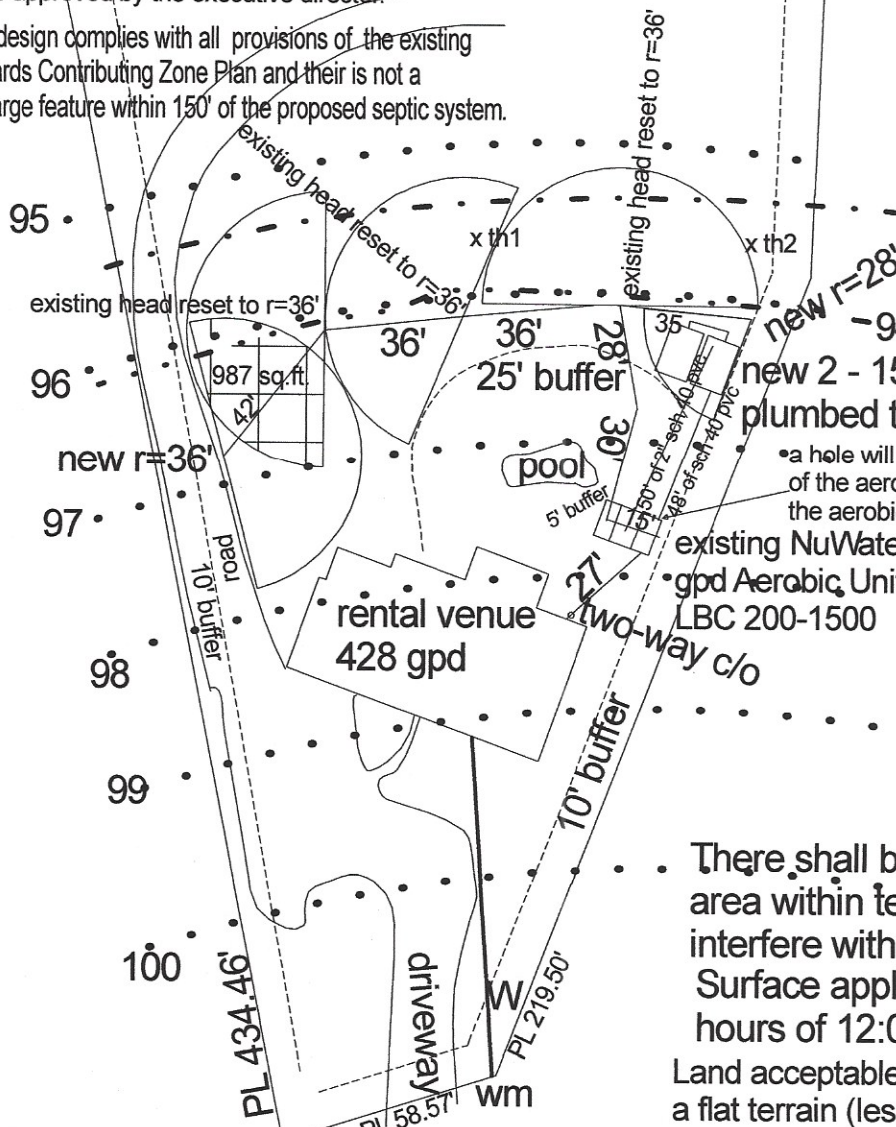
This design complies with all provisions of the existing Edwards Contributing Zone Plan and there is not a recharge feature within 150' of the proposed septic system.

940 contour line

100 yr flood plain does exist on this tract

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

-946 Flood Plain



-948 Us Flowage Easement
new 2 - 1500 gallon concrete tanks plumbed together

- a hole will be inserted into the pretreatment compartment of the aerobic unit and schedule 40 pvc will be installed between the aerobic unit and the newly installed eq/dosing tank

existing NuWater 550-PC-400PT 600

- gpd Aerobic Unit with a LBC 200-1500

All external electrical lines must be in gray conduit

There shall be nothing in the surface application area within ten feet of the sprinkler which would interfere with the uniform application of the effluent. Surface application should be done between the hours of 12:00 midnight and 5:00 a.m.

Land acceptable for surface application shall have a flat terrain (less than to equal to 15% slope). Sloped land (with greater than 15% slope) may be acceptable if it is properly landscaped and terraced to minimize runoff.

MARINE CIRCLE

REVISED

8:19 am, Apr 10, 2019

TANK SPECS

Aerobic with Spray Distribution System

Mark L and Janis R Reis

Lot 154R, Canyon

Lake Island

1105 Marine Circle

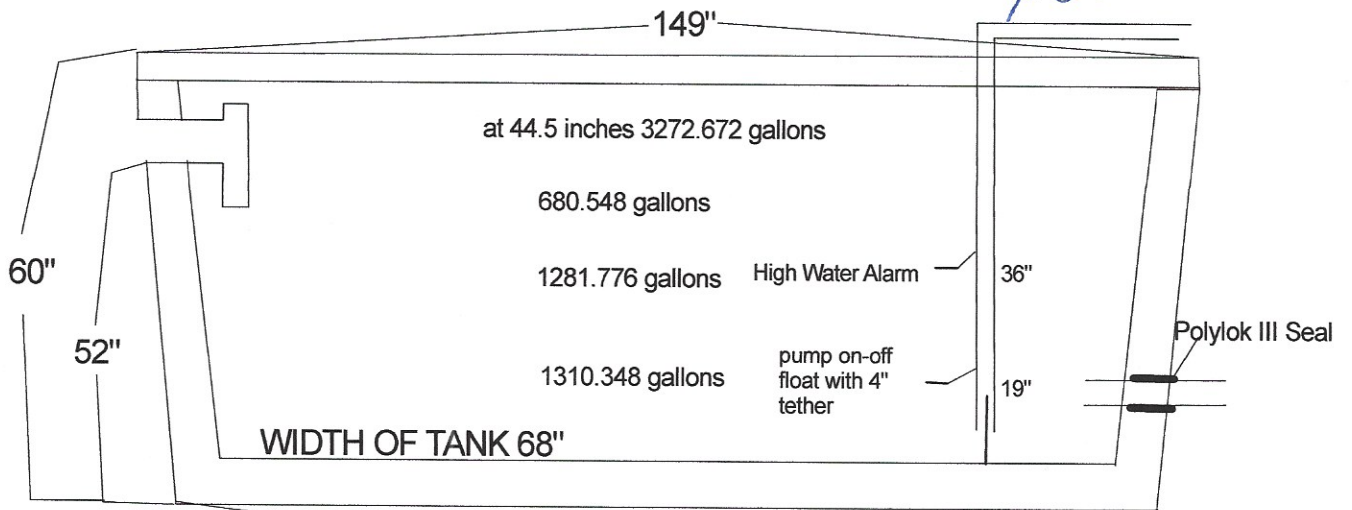
Canyon Lake, Texas 78133

Comal County

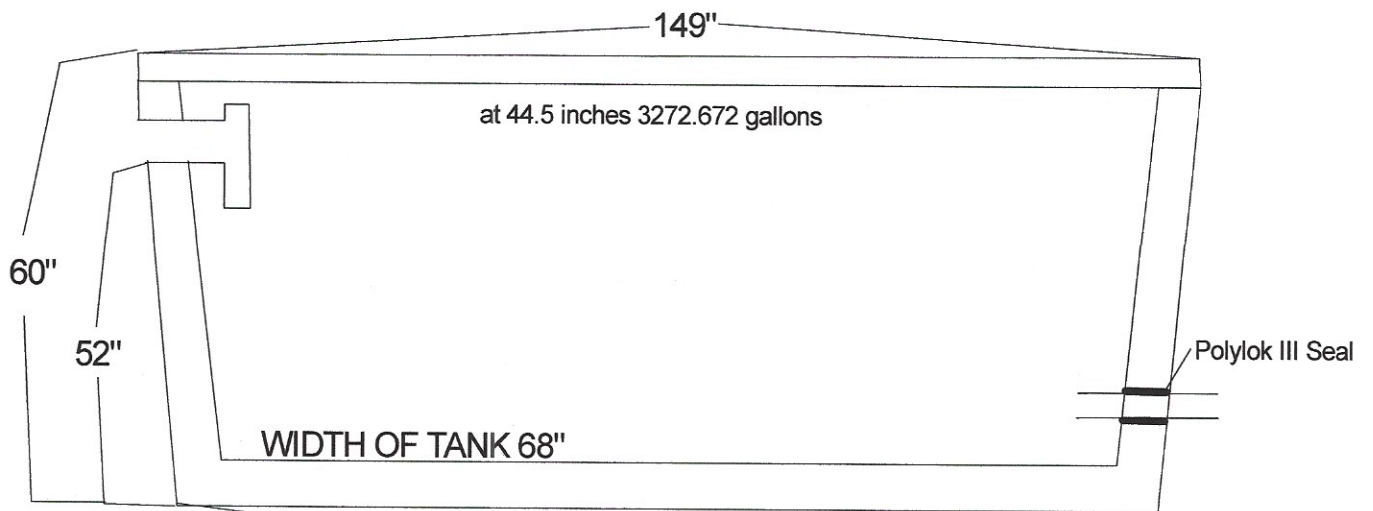
4-9-19



Hoyt Seidensticker



146"
1500 gallon pump tank



146"
1500 gallon pump tank

Liberty

nps®

ProVore®

PRG-Series



Grinder Pump

1 hp
2" Discharge

Designed for residential sewage applications

Higher flow rates allow use with 2" discharge lines

Operates on standard 115 or 230 volt 20 amp circuits

Features:

- Heavy cast iron construction
- 115V or 230V single phase
- Patented V-Slice® cutter technology
- Shreds difficult solids such as feminine products, rags, towels and wipes that can jam a solids-handling style pump
- Hardened stainless steel cutter and plate
- Oil-filled, thermally protected motor
- PRG-Series residential grinders can be used as a replacement pump in 2" discharge systems using LE40 and LE50-series solids-handling pumps.*

**Consult factory with actual application and head specifications prior to replacing LE40 and LE50-series pumps.*



Vertical Float
Model PRG101AV

Models:

PRG101M 115V, 12a, Manual

PRG101A 115V, 12a, Automatic, wide-angle

PRG101AV 115V, 12a, Automatic, vertical float

PRG102M 230V, 6a, Manual

PRG102A 230V, 6a, Automatic

evolve.

PRG-Series

1 hp Grinder Pump

Impeller

Cast Iron, Class 25

Paint

Powder Coat

Max Liquid Temp.

60°C / 140° F

Motor

CSCR style, Class B windings.
Oil-filled, thermally protected

Power Cord Type

SJTW, quick disconnect design 10' standard length. (25' Optional)

Motor Housing

Cast Iron, Class 30

Volute

Cast Iron, Class 30

Shaft

303 Series Stainless Steel

Hardware

Stainless Steel

Mechanical Shaft Seal

Unitized Silicon Carbide

Bearings

Upper and lower, ball bearings

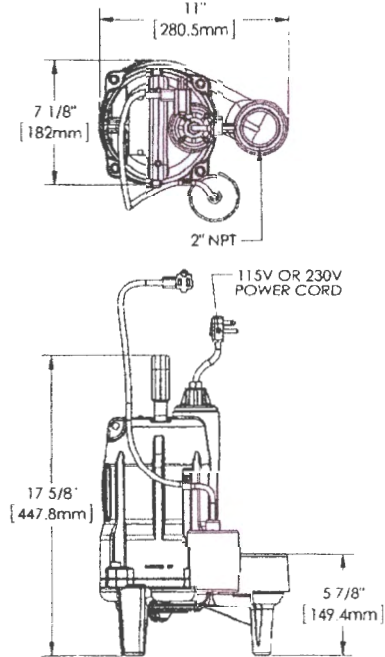
Cutter and Cutter Plate

V-Slice® design. 440 Stainless Steel hardened to Rockwell 57c

Switch (automatic models)

Mechanical wide angle float with series (piggyback) plug

DIMENSIONAL DATA



MODELS	HP	VOLTS	PHASE	Hz.	AMPS	CORD LENGTH	DISCHARGE	AUTOMATIC	WEIGHT LBS.
PRG101A	1	115	1	60	12	10'	2"	Wide-Angle	58
PRG101AV	1	115	1	60	12	10'	2"	Vertical Float	58
PRG101M	1	115	1	60	12	10'	2"	No	57
PRG102A	1	230	1	60	6	10'	2"	Wide-Angle	58
PRG102M	1	230	1	60	6	10'	2"	No	57

For optional 25' power cords, add a "-2" suffix to model number. Example: PRG101A-2

Maximum Fluid Temperature: 140° F (60° C)

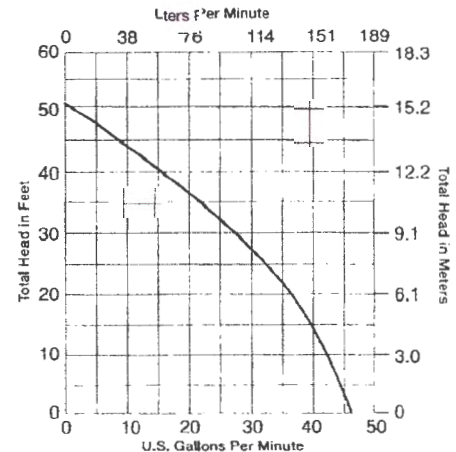


V-Slice® Cutter Technology

Shreds difficult solids—such as feminine products, wipes, rags and other debris.

Patent: See www.libertypumps.com/patents

PERFORMANCE CURVE
60 Hz., 3400 RPM



Specifications subject to change without notice.

Liberty Pumps • 7000 Apple Tree Avenue • Bergen, New York 14416 • Phone 800-543-2550 Fax (585) 494-1839
www.libertypumps.com

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REVISED

10:20 am, Apr 10, 2019

12:38 pm, Feb 20, 2019

10:10 am, Feb 20, 2019

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

VOID

Planning Materials & Site Evaluation as Required Completed By Hoyt Seidenfeld ^{HR} 4-9-19

System Description Aerobic with Spray Distribution 6950.95

Size of Septic System Required Based on Planning Materials & Soil Evaluation 3000 Gallon ERTank ~~6962.95~~

Tank Size(s) (Gallons) 600 GPD ATU Absorption/Application Area (Sq Ft) ~~6712.95~~

Gallons Per Day (As Per TCEQ Table III) 428 600 GPD HR ^{HR} 2-20-19

(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 require a TCEQ approved WPAP? Yes No

(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? Yes No

Is there an existing TCEQ approval CZP for the property? Yes No

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

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

(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of information associated with this permit application, as applicable.

VOID

Signature of Designer

Date

Hoyt Seidenfeld 1-14-18

4/10/2019
9:34 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

VOID

108640
REVISED
10:20 am, Apr 10, 2019

Mark and Janis Reis

Property Information:

St. Address: 1105 Marine Circle
City: Canyon Lake State: Texas
Zip code: 78133

House Information

No. of Bedrooms: see below
Sq. footage (Approx.): see below
gallons per day 428
Water Supply: public

Predicted Quantity of Sewage (Q)

Water Saving Devices in Home (y/n): yes
Gallons/day (Q): 428
Greywater included (yes/no): yes

Supply Line from House

Length of supply line (approx. ft): 13
Type of supply line: SCH 40 PVC
Size of Supply line (in): 3 or 4

Rate of Adsorption (Ra)

Application rate (g/sq. ft): 0.064

Supply Line For Spray Irrigation System

Minimum Adsorptive Area (sq. ft.): 6587.5 Length of supply line (approx. ft): 384
Type of supply line: SCH 40 PVC

VOID

Aerobic Unit

Required size of aerobic unit: 600 gpd
Pretreatment Tank (gallons): 353
Class 1 Aerobic Unit: NuWater 550-PC-400PT
Pump tank total capacity (gal): 768
Chlorination: Liquid installed in Tank
Pump Switch operation: Float system
Dosing cycle quantity (gals): Varied
Cycling time: night time
Pump size and capacity: Franklin E-Series 20 GPM

Disposal Area per this System

$\pi (28)^2/4$	=	<u>615.44</u>
$\pi (28)^2/2$	=	<u>1230.88</u>
$\pi (27)^2/2$	=	<u>1144.53</u>
$\pi (27)^2/2$	=	<u>1144.53</u>
$\pi (22)^2/2$	=	<u>759.88</u>
$\pi (21)^2/2$	=	<u>692.37</u>
$\pi (22)^2/2$	=	<u>759.88</u>
$\pi (28)^2/4$	=	<u>615.44</u>
minus overlap		<u>12</u>
Total irrigated area (sq. ft.):		<u>6950.95</u>

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions.

All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker
Hoyt Seidensticker, R.S. No. 3588

4-9-19
Date

Land Stewardship Services, LLC, 1822 FM 473, Boerne, Texas 78006
Cell (210) 414-6603,



Effective Immediately: If any change(s) are made that require a re-design, a \$75.00 fee will be assessed. This includes, but not limited to, change(s) in the house size, number of bedrooms, location of house or one type of system to another.

VOID

4/10/2019
12:25 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

VOID

REVISED
8:19 am, Apr 10, 2019

Mark and Janis Reis

Head Pressure

Elevation Head:	<u>4</u>
Pressure Head:	<u>92</u>
Friction Head:	<u>15.36</u>
Total head:	<u>111.4</u>

Sprinkler Head Information

K-Rain sprinkler head PROPLUS, low angle nozzle	
No. 3 @40psi	GPM: <u>3.1</u>
Number of sprinkler heads:	<u>8</u>
Gallons per minute:	<u>24.8</u>

This design will be for a rental venue for up to 10 people. Will calculate the flow by using 60 gallons per person for Friday, Saturday and Sunday. Will use 300 gpd for Monday thru Thursday. Will use the weekly averaging, because a flow equalization tank will be installed in front of the existing 600 gpd aerobic unit. Therefore the Monday through Thursday total is 1200 gallons and the Friday through Sunday is 1800 gallons. The total for the week is 3000 gallons and when we divide by 7 days we get 428 gallons per day. Therefore the spray distribution will be based on 428 gallons per day instead of 600 gallons per day. The 600 gpd aerobic unit that is installed will be capable of handling the 428 gallons per day since the equalization tank will be equipped with a pump to dose the aerobic unit 24 hours a day even when no flow is going to the equalization tank.

VOID

Effluent from the house will flow to the pretreatment tank of the aerobic unit. This will meet the rules of effluent must go through a pretreatment tank. A Hole will be inserted in the side of the aerobic unit tank from the pretreatment tank. Schedule 40 pvc will be installed from the pretreatment tank to the newly installed 2 1500 gallon concrete tanks that will be plumbed together. The 3000 gallon equalization/dosing tank will be utilized as an equalization tank. It will collect and store the uneven flows from the building during the day. The 3000 gallon tank will also serve as a dosing tank to dose the aerobic unit. The timer will be set up to dose the aerobic unit all day long including during the night time when there is no flow going to the 3000 tank. The timer will be set to dose the 428 gallons every 24 hour period. Therefore, at the beginning of each day the tank will be empty ready to hold another days flow. The tank will not be completely dry. There will be enough water to cover the pump so the pump stays submerged in water.

A (liberty PRG-series grinder pump) or equivalent will be installed in the 3000 gallon equalization/dosing tank and set to dose the aerobic unit every three hours with 53.5 gallons. This will be accomplished by flow control valves. The valves will be set by timing the amount of gallons discharged to the aerobic unit. The valves will be adjusted to get the proper flow to the aerobic units. The pumps shall be capable to pump up to 15 gpm at 16 ft of head pressure.

VOID

Hoyt Seidensticker, R.S. No. 3588

4-9-19

Date

Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006
Cell (210) 414-6603



4/10/2019
12:25 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY
DESIGN CRITERIA
Mark and Janis Reis

REVISED
8:19 am, Apr 10, 2019

VOID

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

At every inspection a Total Chlorine Residual test must be conducted on the effluent in the pump tank and must be a minimum acceptable level of .1 mg/l residual.

VOID

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker

Hoyt Seidensticker, R.S. No. 3588

Land Stewardship Services, LLC, 27115 Bent Trail, Boerne, Texas 78006
Cell (210) 414-6603

4-9-19

Date



VOID

Site Map
 Aerobic with Spray Distribution System
 Mark L and Janis R Reis
 Lot 154R, Canyon
 Lake Island
 1105 Marine Circle
 Canyon Lake, Texas 78133
 Comal County

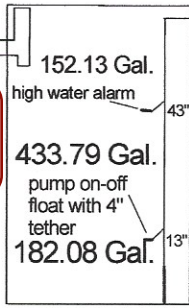
Scale 1" = 50'

VOID

REVISED
 8:19 am, Apr 10, 2019



Handwritten signature and initials



location of sprinkler heads may be adjusted in field to avoid obstacles

I hereby request a variance to the 20 foot setback to property lines as required by Comal County Order to a 10' setback to property lines as required by TCEQ, Chapter 285 and equivalent protection will be maintained by adding a battery backup to the timer clock or photo cell activated timer to assure sprayers to only spray during the predawn hours. In my professional opinion this variance will not pose a threat to the environment or public health.

Risers must be permanently fastened to the tank lid or cast into the tank. The connection between the riser and the tank lid must be watertight. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be removed with specialized tools, a cover having a minimum net weight of 29.5 kilograms (65 pounds) set into a recess of the tank lid or any other means approved by the executive director.

This design complies with all provisions of the existing Edwards Contributing Zone Plan and there is not a recharge feature within 150' of the proposed septic system.

VOID

- 940 contour line
 100 yr flood plain does exist on this tract

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

-946 Flood Plain

-948 Us Flowage Easement
 new 2 - 1500 gallon concrete tanks plumbed together

- a hole will be inserted into the pretreatment compartment of the aerobic unit and schedule 40 pvc will be installed between the aerobic unit and the newly installed eq/dosing tank
- existing NuWater 550-PC-400PT 600
- gpd Aerobic Unit with a LBC 200-1500

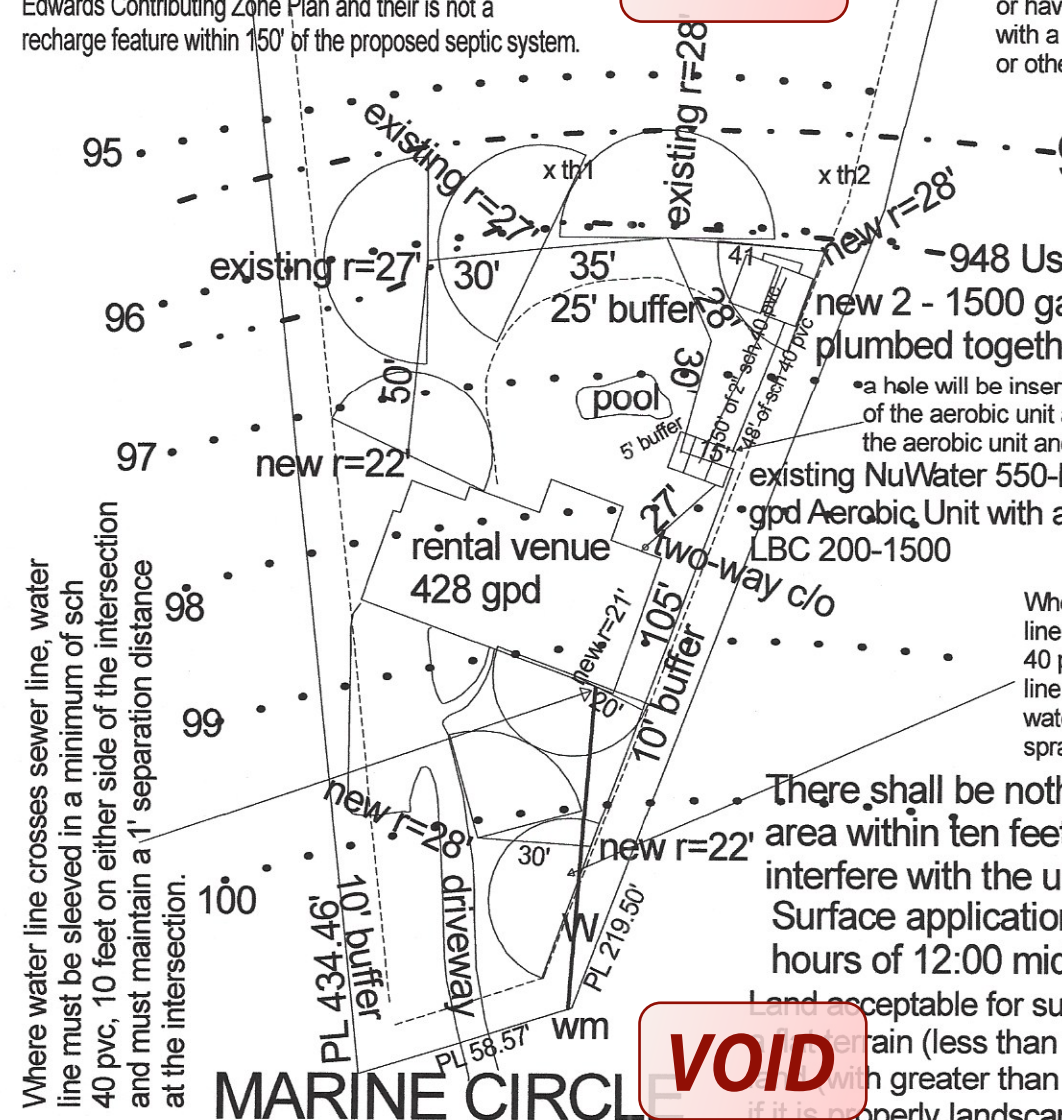
All external electrical lines must be in gray conduit

Where water line crosses the spray area, water line must be sleeved in a minimum of sch 40 pvc, the entire distance where the water line runs under the spray area and until the water line is 10' past the edge of the spray area on either side.

There shall be nothing in the surface application area within ten feet of the sprinkler which would interfere with the uniform application of the effluent. Surface application should be done between the hours of 12:00 midnight and 5:00 a.m.

Land acceptable for surface application shall have a minimum slope (less than to equal to 15% slope). Sloped land with greater than 15% slope may be acceptable if it is properly landscaped and terraced to minimize runoff.

Where water line crosses sewer line, water line must be sleeved in a minimum of sch 40 pvc, 10 feet on either side of the intersection and must maintain a 1' separation distance at the intersection.



VOID

MARINE CIRCLE

REVISED

12:58 pm, Feb 20, 2019

10:10 am, Feb 20, 2019

COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***
APPLICATION FOR PERMIT TO CONSTRUCT AN
ON-SITE SEWAGE TREATMENT SYSTEM LICENSE TO OPERATE

VOID

Planning Materials & Site Evaluation as Required Completed By Hoyt Seidenfeld

System Description Aerobic with spray distribution

Size of Septic System Required Based on Planning Materials & Soil Evaluation 3000 Gallon EQ Tank 6962.95

Tank Size(s) (Gallons) 600 GPD ATU Absorption/Application Area (Sq Ft) ~~6712.95~~

Gallons Per Day (As Per TCEQ Table III) ~~428~~ 600 GPD HR HR 2-20-19

(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 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.)

VOID

Is the property located over the Edwards Contributing Zone? Yes No

Is there an existing TCEQ approval CZP for the property? Yes No

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

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

(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Hoyt Seidenfeld **VOID** 1-14-18
Signature of Designer Date

4/10/2019
12:25 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

Mark and Janis Reis

REVISED
8:19 am, Apr 10, 2019

VOID

Property Information:

St. Address: 1105 Marine Circle
City: Canyon Lake State: Texas
Zip code: 78133

Predicted Quantity of Sewage (Q)

Water Saving Devices in Home (y/n): yes
Gallons/day (Q): 428
Greywater included (yes/no): yes

Rate of Adsorption (Ra)

Application rate (g/sq. ft): 0.064
Minimum Adsorptive Area (sq. ft.): 667.5

Aerobic Unit

Required size of aerobic unit: 600 gpd
Pretreatment Tank (gallons): 353
Class 1 Aerobic Unit: NuWater 550-PC-400PT
Pump tank total capacity (gal): 768
Chlorination: Liquid installed in Tank
Pump Switch operation: Float system
Dosing cycle quantity (gals): Varied
Cycling time: night time
Pump size and capacity: Franklin E-Series 20 GPM

House Information

No. of Bedrooms: see below
Sq. footage (Approx.): see below
gallons per day: 428
Water Supply: public

Supply Line from House

Length of supply line (approx. ft): 13
Type of supply line: SCH 40 PVC
Size of Supply line (in): 3 or 4

Supply Line For Spray Irrigation System

Length of supply line (approx. ft): 384
Type of supply line: SCH 40 PVC
Size of supply line (in): 1

Disposal Area per this System

$\pi (28)^2/4$	=	<u>615.44</u>
$\pi (28)^2/2$	=	<u>1230.88</u>
$\pi (27)^2/2$	=	<u>1144.53</u>
$\pi (27)^2/2$	=	<u>1144.53</u>
$\pi (22)^2/2$	=	<u>759.88</u>
$\pi (21)^2/2$	=	<u>692.37</u>
$\pi (22)^2/2$	=	<u>759.88</u>
$\pi (28)^2/4$	=	<u>615.44</u>
minus overlap		
Total irrigated area (sq. ft.):		<u>6962.95</u>

VOID

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function under normal operating conditions.

All changes or modifications made to design must be approved by the below signed designer.

Hoyt Seidensticker

Hoyt Seidensticker, R.S. No. 3588

Land Stewardship Services, LLC, 1822 FM 473, Boerne, Texas 78006

Cell (210) 414-6603,

4-9-19

Date



Effective Immediately: If any change(s) are made that require a revision to this design, a \$75.00 fee will be assessed. This includes, but not limited to, change(s) in the house size, number of bedrooms, location of house or one type of system to another.

2/20/2019
 5:27 AM
 Aerobic with Spray
 Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

REVISED
 8:58 am, Feb 20, 2019

Mark **VOID** Information

Property Information:

St. Address: 1105 Marine Circle
 City: Canyon Lake State: Texas
 Zip code: 78133

No. of Bedrooms: see below
 Sq. footage (Approx.): see below
 gallons per day 428
 Water Supply: public

Predicted Quantity of Sewage (Q)

Water Saving Devices in Home (y/n): yes
 Gallons/day (Q): 428
 Greywater included (yes/no): yes

Supply Line from House

Length of supply line (approx. ft): 13
 Type of supply line: SCH 40 PVC
 Size of Supply line (in): 3 or 4

Rate of Adsorption (Ra)

Application rate (g/sq. ft): 0.064
 Minimum Adsorptive Area (sq. ft.): 6687.5

Supply Line For Spray Irrigation System

Length of supply line (approx. ft): 384
 Type of supply line: SCH 40 PVC
 supply line (in): 1

Aerobic Unit

Required size of aerobic unit: 600 gpd
 Pretreatment Tank (gallons): 353
 Class 1 Aerobic Unit: NuWater 550-PC-400PT
 Pump tank total capacity (gal): 768
 Chlorination: Liquid installed in Tank
 Pump Switch operation: Float system
 Dosing cycle quantity (gals): Varied
 Cycling time: night time
 Pump size and capacity: Franklin E-Series 20 GPM

Disposal Area per this System

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$\pi (22)^2/2$	=	759.88
$\pi (21)^2/2$	=	692.37
$\pi (22)^2/2$	=	759.88
$\pi (28)^2/4$	=	615.44
minus overlap		
Total irrigated area (sq. ft.):		<u>6962.95</u>

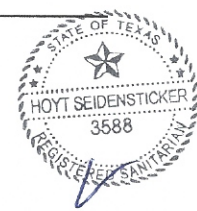
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Hoyt Seidensticker
 Hoyt Seidensticker, R.S. No. 3588

2-20-19
 Date

Land Stewardship Services, LLC, 1822 FM 473, Boerne, Texas 78006
 Cell (210) 414-6603,



VOID

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2/20/2019
5:27 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA Mark and Janis Reis

REVISED
8:58 am, Feb 20, 2019

VOID

Head Pressure

Elevation Head:	<u>4</u>
Pressure Head:	<u>92</u>
Friction Head:	<u>15.36</u>
Total head:	<u>111.4</u>

Sprinkler Head Information

K-Rain sprinkler head PROPLUS, low angle nozzle	
No. 3 @40psi	GPM: <u>3.1</u>
Number of sprinkler heads:	<u>8</u>
Gallons per minute:	<u>24.8</u>

This design will be for a rental venue for up to 10 people. Will calculate the flow by using 60 gallons per person for Friday, Saturday and Sunday. Will use 300 gpd for Monday thru Thursday. Will use the weekly averaging, because a flow equalization tank will be installed in front of the existing 600 gpd aerobic unit. Therefore the Monday through Thursday total is 1200 gallons and the Friday through Sunday is 1800 gallons. The total for the week is 3000 gallons and when we divide by 7 days we get 428 gallons per day. Therefore the spray distribution will be based on 428 gallons per day instead of 600 gallons per day. The 600 gpd aerobic unit that is installed will be capable of handling the 428 gallons per day since the equalization tank will be equipped with a pump to dose the aerobic unit 24 hours a day even when no flow is going to the equalization tank.

VOID

Effluent will then flow to a 3000 gallon eq/dosing tank.

The 3000 gallon equalization/dosing tank will be utilized as an equalization tank.

It will collect and store the uneven flows from the building during the day.

The 3000 gallon tank will also serve as a dosing tank to dose the aerobic unit.

The timer will be set up to dose the aerobic unit all day long including during the night time when there is no flow going to the 3000 tank. The timer will be set to dose the 428 gallons every 24 hour period. Therefore, at the beginning of each day the tank will be empty ready to hold another days flow. The tank will not be completely dry. There will be enough water to cover the pump so the pump stays submerged in water.

A (liberty PRG-series grinder pump) or equivalent will be installed in the 3000 gallon equalization/dosing tank and set to dose the aerobic unit every three hours with 53.5 gallons. This will be accomplished by flow control valves. The valves will be set by timing the amount of gallons discharged to the aerobic unit. The valves will be adjusted to get the proper flow to the aerobic units. The pumps shall be capable to pump up to 15 gpm at 16 ft of head pressure.

VOID

Hoyt Seidensticker
Hoyt Seidensticker, R.S. No. 3588

2-20-19
Date



2/20/2019
5:27 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

REVISED
8:58 am, Feb 20, 2019

VOID

A cyclic counter will be installed on the dosing pump to measure the number of times the pumps come on. A elapsed time meter will be installed on the dosing pump to measure the run time of the pumps. The counter and meter will be used to calculate the volume of effluent being dosed to the aerobic units. The counter and meter will be read by the maintenance provider when he conducts his inspection.

A water meter will be installed on the line from the pump tank to the spray field. It is recommended that the meter be read once a week to give the maintenance provider an idea of water usage. The water meter shall be read by the maintenance provider when he conducts his inspection.

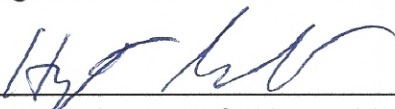
A class 1 aerobic wastewater treatment unit, chlorination and spray distribution system will be designed for this location. Wastewater from the residence will flow to a pretreatment/trash tank, then to the treatment unit. Treated effluent will be chlorinated by a Chlorination Station 200-1500 Unit in the pump tank, before being disposed of through above ground sprinkler heads. All warning systems shall be installed with the aerobic unit

VOID

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

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

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.


Hoyt Seidensticker, R.S. No. 3588

VOID

2-20-19
Date



Land Stewardship Services, LLC, 1822 FM 473, Boerne, Texas 78006
Cell (210) 414-6603, Fax (830) 336-4697

2/20/2019
5:27 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

Mark Reis

REVISED

8:58 am, Feb 20, 2019

VOID

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

At every inspection a Total Chlorine Residual test must be conducted on the effluent in the pump tank and must be a minimum acceptable level of .1 mg/l residual.

VOID

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Land Stewardship Services, LLC, 1822 FM 473, Boerne, Texas 78006

Cell (210) 414-6603, Fax (830) 336-4697

2-20-19

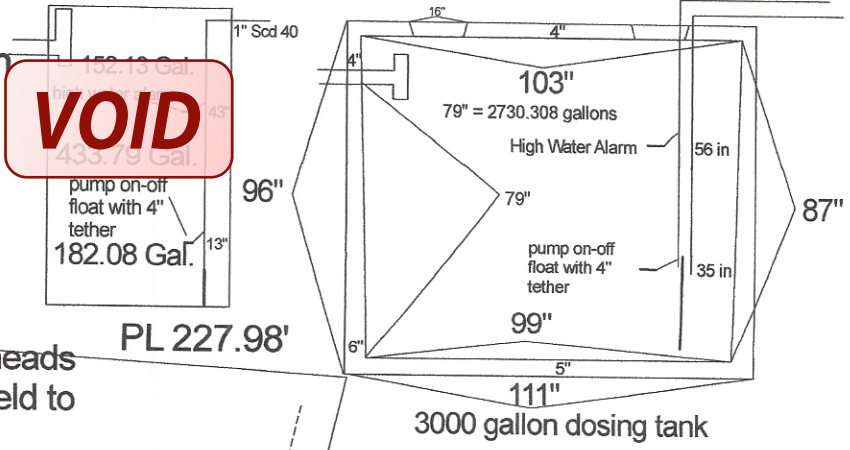
Date



VOID

Site Map **Scale 1" = 50'**
 Aerobic with Spray Distribution System
 Mark L and Janis R Reis
 Lot 154R, Canyon
 Lake Island
 1105 Marine Circle
 Canyon Lake, Texas 78133
 Comal County

REVISED
 8:58 am, Feb 20, 2019



location of sprinkler heads may be adjusted in field to avoid obstacles

I hereby request a variance to the 20 foot setback to property lines as required by Comal County Order to a 10' setback to property lines as required by TCEQ, Chapter 285 and equivalent protection will be maintained by adding a battery backup to the timer clock or photo cell activated timer to assure sprayers to only spray during the predawn hours. In my professional opinion this variance will not pose a threat to the environment or public health.

Risers must be permanently fastened to the tank lid or cast into the tank. The connection between the riser and the tank lid must be watertight. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be removed with specialized tools, a cover having a minimum net weight of 29.5 kilograms (65 pounds) set into a recess of the tank lid, or any other means approved by the executive director.

This design complies with all provisions of the existing Edwards Contributing Zone Plan and there is not a recharge feature within 150' of the proposed septic system.

940 contour line
 100 yr flood plain does exist on this tract

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

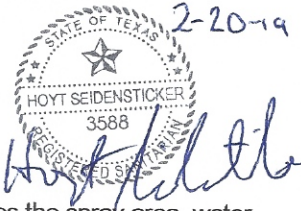
VOID

-946 Flood Plain

-948 Us Flowage Easement

All external electrical lines must be in gray conduit

existing NuWater 550-PC-400PT 600 gpd Aerobic Unit with a LBC 200-1500
 new 3000 gallon eq/dosing tank



Where water line crosses the spray area, water line must be sleeved in a minimum of sch 40 pvc, the entire distance where the water line runs under the spray area and until the water line is 10' past the edge of the spray area on either side.

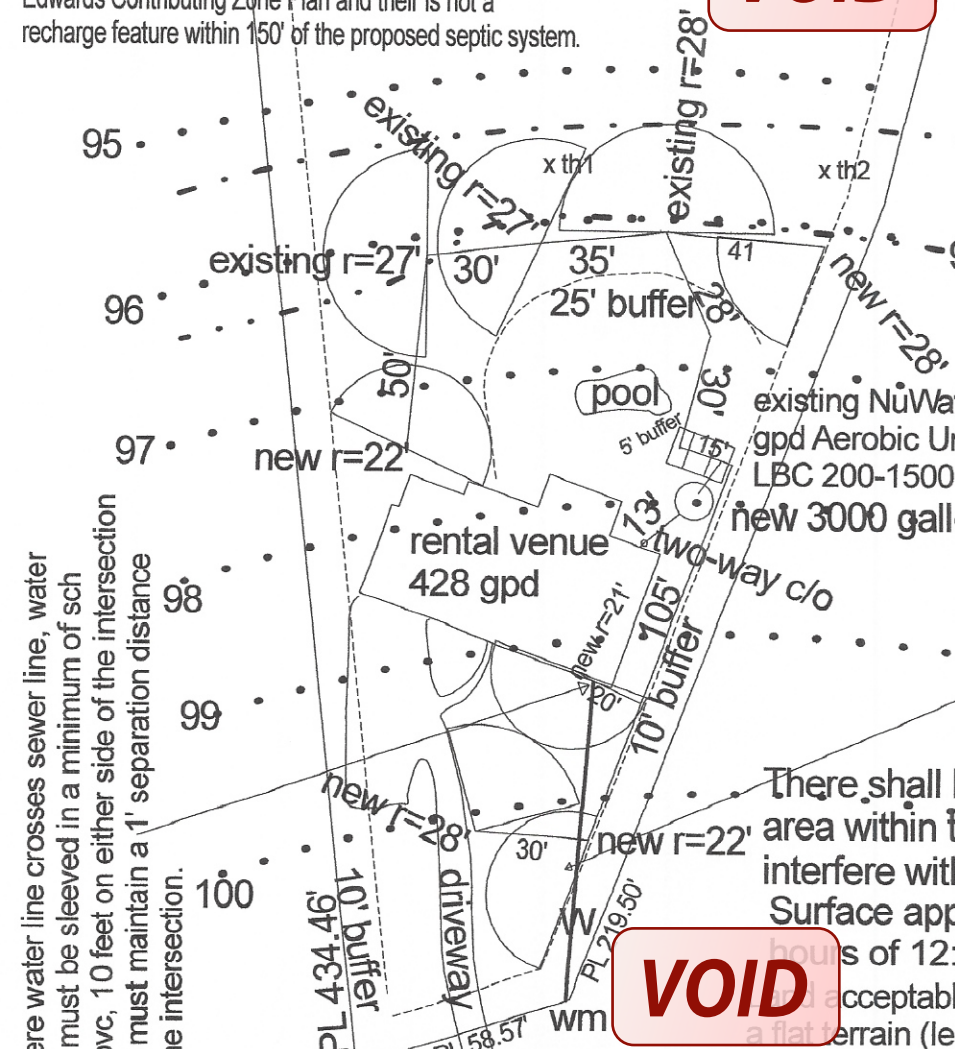
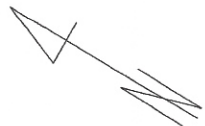
There shall be nothing in the surface application area within ten feet of the sprinkler which would interfere with the uniform application of the effluent. Surface application should be done between the hours of 12:00 midnight and 5:00 a.m.

Surface application acceptable for surface application shall have a flat terrain (less than to equal to 15% slope). Sloped land (with greater than 15% slope) may be acceptable if it is properly landscaped and terraced to minimize runoff.

VOID

Where water line crosses sewer line, water line must be sleeved in a minimum of sch 40 pvc, 10 feet on either side of the intersection and must maintain a 1' separation distance at the intersection.

MARINE CIRCLE



Hernandez, Sandra

From: Hernandez, Sandra
Sent: Wednesday, February 20, 2019 10:08 AM
To: 'hoyt@gvtc.com'
Cc: 'markreis1946@gmail.com'
Subject: RE: 108640 deficiency comments

Hoyt,

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

1. The spray distribution area can be averaged out, but the treatment capacity has to be based off the peak flow rate.
2. Permit application indicates that there is a single family dwelling and a 10 person rental facility, but the design only shows the rental venue.
3. Revise accordingly and resubmit.

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

Thank you,
Sandra

From: hoyt@gvtc.com <hoyt@gvtc.com>
Sent: Wednesday, February 20, 2019 5:34 AM
To: Hernandez, Sandra <rabsah@co.comal.tx.us>
Cc: marlreis1946@gmail.com; Ritzen, Brenda <rabbjr@co.comal.tx.us>; Boyd, Robert <boydro@co.comal.tx.us>
Subject: RE: 108640 deficiency comments

Here is the revision to the septic system design.

From: Hernandez, Sandra <rabsah@co.comal.tx.us>
Sent: Friday, January 18, 2019 12:04 PM
To: hoyt@gvtc.com
Cc: marlreis1946@gmail.com
Subject: 108640 deficiency comments

RE: Canyon Lake Island, Lot 154R

Hoyt,

We received planning materials for the referenced permit application on January 17, 2019 and found those planning materials to be deficient. In order to continue processing this permit, we need the following information:

1. It appears that some of the spray heads are located beneath the 948 line. Submit Corp approval.
2. Permit application indicates that there is a single family dwelling and a 10 person rental (commercial) facility. Please clarify.
3. Base calculations on peak flow rate.
4. Revise planning materials accordingly and resubmit.


Hernandez, Sandra

From: Hernandez, Sandra
Sent: Friday, January 18, 2019 12:04 PM
To: 'hoyt@gvvc.com'
Cc: 'marlreis1946@gmail.com'
Subject: 108640 deficiency comments
Attachments: Capture.PNG

RE: Canyon Lake Island, Lot 154R

Hoyt,

We received planning materials for the referenced permit application on January 17, 2019 and found those planning materials to be deficient. In order to continue processing this permit, we need the following information:

1.  It appears that some of the spray heads are located beneath the 948 line. Submit Corp approval.
2. Permit application indicates that there is a single family dwelling and a 10 person rental (commercial) facility. Please clarify.
3. Base calculations on peak flow rate.
4. Revise planning materials accordingly and resubmit.

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

Thank you,
Sandra

Enforcement

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

VOID

Date _____ Permit # 108640
Owner Name JAVIS & MARK REIS Agent Name Hoyt Seidensticker
Mailing Address 27302 SPIRAL CANYON Agent Address 1822 FM 473
City, State, Zip SAN ANTONIO, TEXAS City, State, Zip Boerne, Tex. 78006
Phone # 210-412-5989 Phone # 210-414-6603
Email markreiss1942@gmail.com Email hoyt@qvtc.com

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

Subdivision Name CANYON LAKE ISLAND Unit _____ Lot 154 R Block _____
Acreage/Legal VOL. 11 PG 391 MPRCCT
Street Name/Address 1105 MARINE CIRCLE City CANYON LAKE Zip 78133

Type of Development:

Single Family Residential
Type of Construction (House, Mobile, RV, Etc.) House
Number of Bedrooms _____
Indicate Sq Ft of Living Area 2834

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JAN 17 2019
COUNTY ENGINEER

Commercial or Institutional Facility
(Planning materials must show adequate land area for disposal of sludge and land needed for treatment units and disposal area)
Type of Facility Rental for 10 people @ 60 gallons/person
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 _____

VOID

Estimated Cost of Construction: \$ N/A (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?
 Yes No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water Public Private Well

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

By signing this application, I certify that:
- The completed application and all additional information submitted does not contain any false information and does not conceal any material facts.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities.
- I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the 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.

VOID

Javis Reis
Signature of Owner Date 1/17/19

REVISED

10:10 am, Feb 20, 2019

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 Hoyt Seidenfeld

System Description Aerobic WWT Distribution

VOID

Size of Septic System Required Based on Planning Materials & Soil Evaluation
3000 Gallon ERTank 6962.95

Tank Size(s) (Gallons) 600 GPD ATU Absorption/Application Area (Sq Ft) 6712.95

Gallons Per Day (As Per TCEQ Table III) 428 HR 2-20-19

(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

VOID

Is there an existing TCEQ approval CZP for the property? Yes No

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

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

(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my information associated with this permit application, as applicable.

VOID

Hoyt Seidenfeld 1-14-18
Signature of Designer Date

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***
APPLICATION FOR PERMIT TO CONSTRUCT AN ON-SITE SEWAGE TREATMENT SYSTEM LICENSE TO OPERATE

VOID

Planning Materials & Site Evaluation as Required Completed By Hoyt Seidenfeld

System Description Aerobic with Spray Distribution

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

Tank Size(s) (Gallons) 3000 Gallon FRTank 600 GPD ATU Absorption/Application Area (Sq Ft) 6712.95

Gallons Per Day (As Per TCEQ Table III) 428

(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.)

VOID

Is the property located over the Edwards Contributing Zone? Yes No

Is there an existing TCEQ approval CZP for the property? Yes No

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

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

(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of this information associated with this permit application, as applicable.

VOID

Signature of Designer Hoyt Seidenfeld Date 1-14-18

1/14/2019
 5:56 AM
 Aerobic with Spray
 Distribution System

**ON-SITE SEWAGE FACILITY
 DESIGN CRITERIA**
 Mark and Janis Reis

VOID

Property Information:

St. Address: 1105 Marine Circle
 City: Canyon Lake State: Texas
 Zip code: 78133

Predicted Quantity of Sewage (Q)

Water Saving Devices in Home (y/n): yes
 Gallons/day (Q): 428
 Greywater included (yes/no): yes

Rate of Adsorption (Ra)

Application rate (g/sq. ft): 0.064
 Minimum Adsorptive Area (sq. ft.): 6687.5

Aerobic Unit

Required size of aerobic unit: 600 gpd
 Pretreatment Tank (gallons): 353
 Class 1 Aerobic Unit: NuWater 550-PC-400PT
 Pump tank total capacity (gal): 768
 Chlorination: Liquid installed in Tank
 Pump Switch operation: Float system
 Dosing cycle quantity (gals): Varied
 Cycling time: night time
 Pump size and capacity: Franklin E-Series 20 GPM

House Information

No. of Bedrooms: see below
 Sq. footage (Approx.): see below
 gallons per day: 428
 Water Supply: public

Supply Line from House

Length of supply line (approx. ft): 13
 Type of supply line: SCH 40 PVC
 Size of Supply line (in): 3 or 4

Supply Line For Spray Irrigation System

Length of supply line (approx. ft): 321
 Type of supply line: SCH 40 PVC
 Size of supply line (in): 1

Disposal Area per this System

$\pi (28)^2/2$	=	<u>1230.88</u>
$\pi (28)^2/2$	=	<u>1230.88</u>
$\pi (27)^2/2$	=	<u>1144.53</u>
$\pi (27)^2/2$	=	<u>1144.53</u>
$\pi (22)^2/2$	=	<u>759.88</u>
$\pi (21)^2/2$	=	<u>692.37</u>
$\pi (22)^2/2$	=	<u>759.88</u>
minus overlap		<u>250</u>
Total irrigated area (sq. ft.):		<u>6712.95</u>

VOID

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

[Signature] Date 1-14-19
 Hoyt Seidensticker, R.S. No. 3588
 Land Stewardship Services, LLC, 1822 FM 475, Berne, Texas 78006
 Cell (210) 414-6603, Fax (830) 336-4697

VOID



Effective Immediately: If any change(s) are made that require a revision to this design, a \$75.00 fee will be assessed. This includes, but not limited to, change(s) in the house size, number of bedrooms, location of house or one type of system to another.

1/14/2019
5:56 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY DESIGN CRITERIA

VOID

Mark and Janis Reis

Head Pressure

Elevation Head:	<u>4</u>
Pressure Head:	<u>92</u>
Friction Head:	<u>12.84</u>
Total head:	<u>108.8</u>

Sprinkler Head Information

K-Rain sprinkler head PROPLUS,	
low angle nozzle	
No. 3 @40psi	GPM: <u>3.1</u>
Number of sprinkler heads:	<u>7</u>
Gallons per minute:	<u>21.7</u>

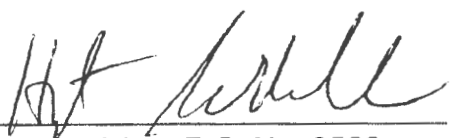
This design will be for a rental venue for up to 10 people. Will calculate the flow by using 60 gallons per person for Friday, Saturday and Sunday. Will use 300 gpd for Monday thru Thursday. Will use the weekly averaging, because a flow equalization tank will be installed in front of the existing 600 gpd aerobic unit. Therefore the Monday through Thursday total is 1200 gallons and the Friday through Sunday is 1800 gallons. The total for the week is 3000 gallons and when we divide by 7 days we get 428 gallons per day. Therefore the spray distribution will be based on 428 gallons per day instead of 600 gallons per day. The 600 gpd aerobic unit that will be capable of handling the 428 gallons per day since the equalization tank will be equipped with a pump to dose the aerobic unit 24 hours a day even when no flow is going to the equalization tank.

VOID

Effluent will then flow to a 3000 gallon eq/dosing tank.
 The 3000 gallon equalization/dosing tank will be utilized as an equalization tank. It will collect and store the uneven flows from the building during the day. The 3000 gallon tank will also serve as a dosing tank to dose the aerobic unit. The timer will be set up to dose the aerobic unit all day long including during the night time when there is no flow going to the 3000 tank. The timer will be set to dose the 428 gallons every 24 hour period. Therefore, at the beginning of each day the tank will be empty ready to hold another days flow. The tank will not be completely dry. There will be enough water to cover the pump so the pump stays submerged in water.

A (liberty PRG-series grinder pump) or equivalent will be installed in the 3000 gallon equalization/dosing tank and set to dose the aerobic unit every three hours with 53.5 gallons. This will be accomplished by flow control valves. The valves will be set by timing the amount of gallons discharged to the aerobic unit. The valves will be adjusted to get the proper flow to the aerobic units. The pumps shall be capable to pump 15 gpm at 16 ft of head pressure.

VOID


 Hoyt Seidensticker, R.S. No. 3588

1-14-19
 Date



1/14/2019
5:56 AM
Aerobic with Spray
Distribution System

ON-SITE SEWAGE FACILITY
DESIGN CRITERIA
Mark and Janis Reis

VOID

A cyclic counter will be installed on the dosing pump to measure the number of times the pumps come on. A elapsed time meter will be installed on the dosing pump to measure the run time of the pumps. The counter and meter will be used to calculate the volume of effluent being dosed to the aerobic units. The counter and meter will be read by the maintenance provider when he conducts his inspection.

A water meter will be installed on the line from the pump tank to the spray field. It is recommended that the meter be read once a week to give the maintenance provider an idea of water usage. The water meter shall be read by the maintenance provider when he conducts his inspection.

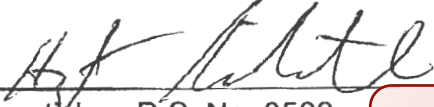
A class 1 aerobic wastewater treatment unit and spray distribution system will be designed for this location. Wastewater from the pump tank will flow to a pretreatment/trash tank, then to the treatment unit. Treated effluent will be disinfected by a Chlorination Station 200-1500 Unit in the pump tank, before being disposed of through above ground sprinkler heads. All warning systems shall be installed with the aerobic unit

VOID

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

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

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.

 _____
Hoyt Seidensticker, R.S. No. 3588
Land Stewardship Services, LLC, 1822 _____
Cell (210) 414-6603, Fax (830) 336-4637

1-14-19

Date
Berme, Texas 78006



VOID

1/14/2019
5:56 AM
Aerobic with Spray
Distribution System

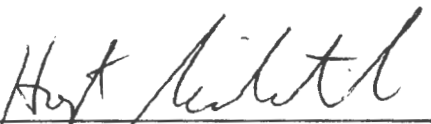
ON-SITE SEWAGE FACILITY
VOID
DESIGN CRITERIA
Mark and Janis Reis

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

At every inspection a Total Chlorine Residual test must be conducted on the effluent in the pump tank and must be a minimum acceptable level of .1 mg/l residual.

VOID

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (Effective December 27, 2012). The above design was based on the best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by the below signed designer.



Hoyt Seidensticker, R.S. No. 3588

Land Stewardship Services, LLC, 1822 FM 473, Boerne, Texas 78006
Cell (210) 414-6603, Fax (830) 336-4697

1-14-19

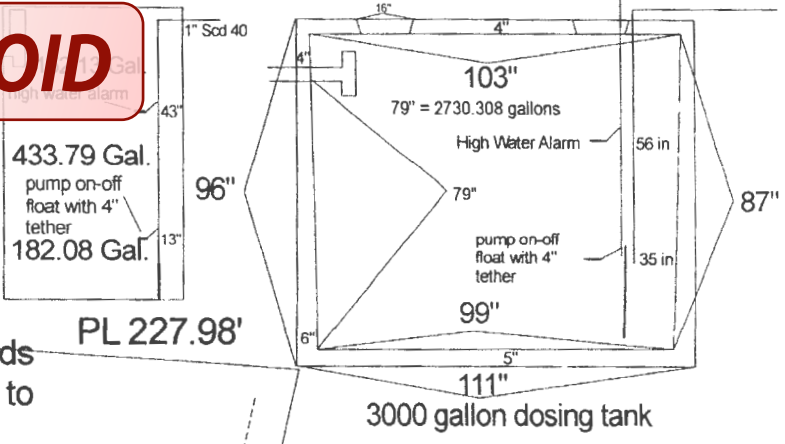
Date



VOID

Site Map Scale 1" = 50'
 Aerobic with Spray Distribution System
 Mark L and Janis R Reis
 Lot 154R, Canyon
 Lake Island
 1105 Marine Circle
 Canyon Lake, Texas 78133
 Comal County

VOID



location of sprinkler heads may be adjusted in field to avoid obstacles

I hereby request a variance to the 20 foot setback to property lines as required by Comal County Order to a 10' setback to property lines as required by TCEQ, Chapter 285 and equivalent protection will be maintained by adding a battery backup to the timer clock or photo cell activated timer to assure sprayers to only spray during the predawn hours. In my professional opinion this variance will not pose a threat to the environment or public health.

Risers must be permanently fastened to the tank lid or cast into the tank. The connection between the riser and the tank lid must be watertight. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions by either a padlock, a cover that can be removed with specialized tools, a cover having a minimum net weight of 29.5 kilograms (65 pounds) set into a recess of the tank lid, or any other means approved by the executive director.

This design complies with all provisions of the existing Edwards Contributing Zone Plan and there is not a recharge feature within 150' of the proposed septic system.

VOID

940 contour line
 100 yr flood plain does exist on this tract

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

946 Flood Plain

948 Us Flowage Easement

All external electrical lines must be in gray conduit

existing NuWater 550-PC-400PT 600 gpd Aerobic Unit with a LBC 200-1500

new 3000 gallon eq/dosing tank

1-19-19
 HOYT SEIDENSTICKER
 3588
 [Signature]

Where water line crosses the spray area, water line must be sleeved in a minimum of sch 40 pvc, the entire distance where the water line runs under the spray area and until the water line is 10' past the edge of the spray area on either side.

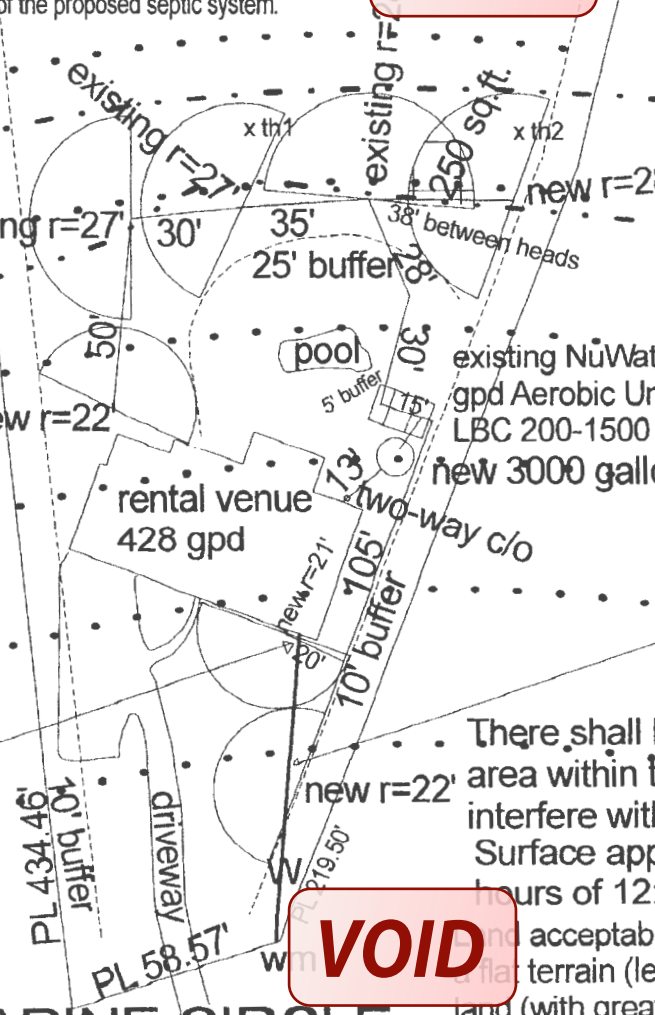
There shall be nothing in the surface application area within ten feet of the sprinkler which would interfere with the uniform application of the effluent. Surface application should be done between the hours of 12:00 midnight and 5:00 a.m.

Surface application shall have acceptable terrain (less than to equal to 15% slope). Sloped land (with greater than 15% slope) may be acceptable if it is properly landscaped and terraced to minimize runoff.

VOID

Where water line crosses sewer line, water line must be sleeved in a minimum of sch 40 pvc, 10 feet on either side of the intersection and must maintain a 1' separation distance at the intersection.

MARINE CIRCLE



**CCEO
COPY**



Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: **02/08/2017** Permit Number: **105119**

Location Description: 1105 MARINE CIR
CANYON LAKE, TX 78133
Subdivision: Canyon Lake Island
Unit:
Lot: 154R
Block:
Acreage:

Type of System: Aerobic
Surface Irrigation

Issued to: 1105MarineCircleReis, LLC

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

Michael Lopez **CCS497**
ENVIRONMENTAL HEALTH INSPECTOR

Sandra Ann Hernandez
ENVIRONMENTAL HEALTH COORDINATOR
OS 0025599

REVISED
3:51 pm, Nov 04, 2016

CCEO

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

Date _____ Permit # _____

COPY

Owner Name 1105MarineCircleReis, LLC Agent Name Douglas R. Dowlearn, R.S.

Mailing Address 1105 Marine Circle Agent Address 703 Oak Drive

City, State, Zip Canyon Lake, TX 78133 City, State, Zip Blanco, TX 78606

Phone # 210.493.2323 - David Anderson Homes Phone # 210.240.2101

Email hang@dah.builders Email txseptic@gmail.com

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

Subdivision Name Canyon Lake Island Subdivision Unit _____ Lot 154R Block _____

Acreage/Legal _____

Street Name/Address 1105 Marine Circle City Canyon Lake Zip 78133

Type of Development:

Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) House

Number of Bedrooms 4

Indicate Sq Ft of Living Area 2834

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: \$ 324,950 (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)

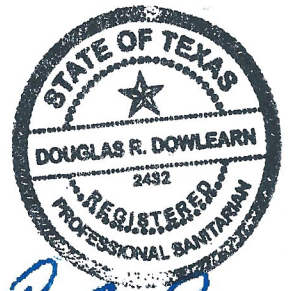
Source of Water Public Private Well

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

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.

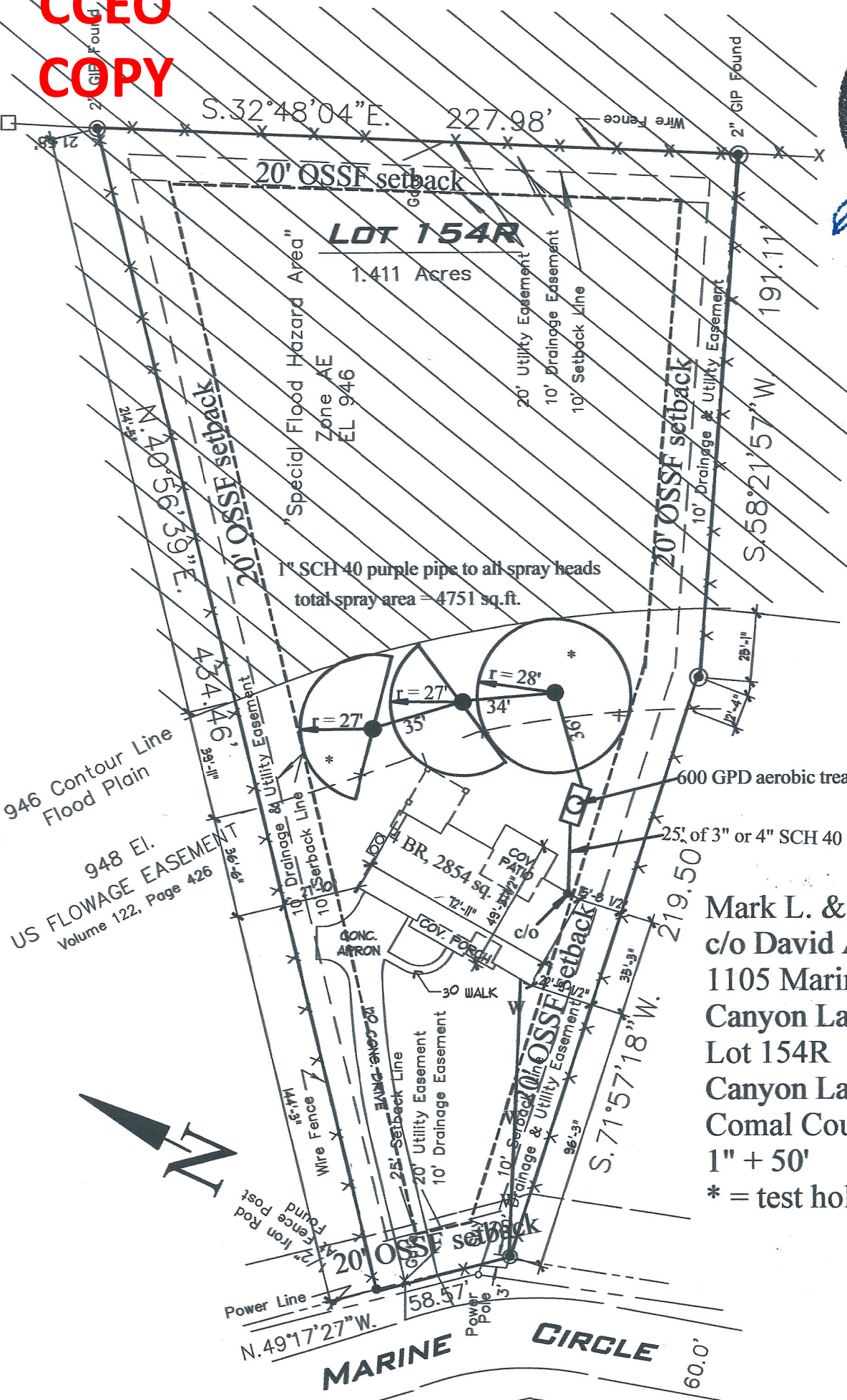
Signature of Owner Mark P. Reis Date September 15, 2016

**CCEO
COPY**



Douglas R. Dowlearn
11/4/16

REVISED
3:51 pm, Nov 04, 2016



Mark L. & Janis R. Reis
c/o David Anderson Homes
1105 Marine Circle
Canyon Lake, TX 78133
Lot 154R
Canyon Lake Island
Comal County
1" + 50'
* = test holes

RECEIVED

By rabsah at 9:43 am, Feb 20, 2019

**U. S. Army, Corps of Engineers
ATTN: CESWF-RE-M
P. O. Box 17300
Fort Worth, TX 76102-0300**

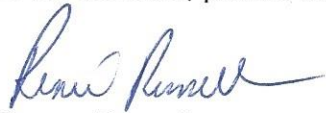
April 25, 2017

Mr. and Mrs. Mark Reis
27302 Spiral Canyon
San Antonio, Texas 78261

Dear Mr. and Mrs. Reis:

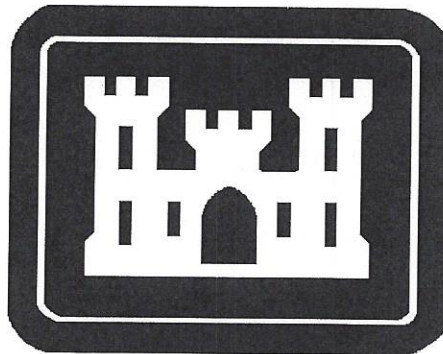
Enclosed are two fully executed copies of Consent No. DACW63-9-17-0640 for your records. Per condition 11 of your consent a copy must be filed at the county of record under the referenced tract number. Once recorded a copy must be provided to us so that we will know the consent is officially on record. You have 30-days to provide us with proof of recording or your consent may be terminated.

If you have any questions related to your rights or responsibilities as provided for in the consent, please contact Ms. Renee Russell, 817-886-1209.



Renee Russell
Realty Specialist
Fort Worth District

Enclosure



RECEIVED

By rabsah at 9:43 am, Feb 20, 2019

CONSENT NO. DACW63-9-17-0640

Permit #
105119

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
FORT WORTH DISTRICT

Project: Canyon Lake, Texas
Tract No. 403E-2

CONSENT TO EASEMENT STRUCTURES

WHEREAS, the United States has acquired a perpetual flowage easement over Tract No. 403E-2, Canyon Lake, Texas, which is recorded in Deed Records, Volume 122, Pages 426-429, of Comal County, Texas:

WHEREAS, said easement grants to the United States the right of prior approval for any structure to be located within the easement area, which area is under the administrative control of the Fort Worth District, U.S. Army Corps of Engineers;

WHEREAS, the United States has been requested to give consent to construct, operate and maintain an on-site sewage facility with surface irrigation lines on the above-identified tract.

NOW THEREFORE, the United States hereby gives consent to Mark L. and Janis R. Reis, 27302 Spiral Canyon, San Antonio, Texas 78261, to construct, operate and maintain an on-site sewage facility with surface irrigation lines at 1105 Marine Circle, Canyon Lake, Texas 78133 as shown on **EXHIBITS A and B** attached hereto;

PROVIDED HOWEVER, that this consent is subject to the following conditions:

1. All activities conducted on the Premises shall comply with all applicable Federal, state, county and municipal laws, ordinances and regulations wherein the Premises are located.
2. The giving of this consent does not in any way subordinate the United States prior easement rights. The United States shall in no case be liable for any damage or injury to the structures herein consented to, which may be caused by any action of the United States under its easement, or that may result from future operations undertaken by the United States, and no claim or right to compensation shall accrue from such exercise of the United States' easement rights.
3. The United States shall not be responsible for damages to property or injuries to persons which may arise from or be incident to the exercise of the consented activity. Any such damages shall be the sole responsibility of the Grantee.

RECEIVED

By rabsah at 9:43 am, Feb 20, 2019

CONSENT NO. DACW63-9-17-0640

4. This instrument is effective only insofar as the rights of the United States in the Premises are concerned; and the Grantee shall obtain such permission as may be required on account of any other existing rights. It is understood that this consent does not eliminate the necessity for obtaining any Department of the Army permit which may be required pursuant to the provisions of Section 10 of the Rivers and Harbors Act of 3 March 1899 (30 Stat. 1151; 33 U.S.C. § 403), Section 404 of the Clean Water Act (33 U.S.C. § 1344) or any other permit or license which may be required by Federal, state, interstate or local laws in connection with the use of the Premises.

5. The Grantee will notify the Canyon Lake Project Office at 830-964-3341, prior to commencement of work.

6. No fill material shall be brought in from above the 948 feet National Geodetic Vertical Datum (NGVD), unless an equivalent amount has been excavated. Our intent is to preserve and maintain flood storage capacity.

7. No area lying within the flowage easement shall be elevated above 948 feet NGVD.

8. The flowage easement contour of 948 feet NGVD may not be altered.

9. The on-site sewage facility shall not be located within a minimum of 75 horizontal feet from the lake water surface at the elevation of 948 feet NGVD unless an exemption is granted by the Texas Commission on Environmental Quality.

10. The construction, operation and maintenance of the on-site sewage facility shall be in accordance with all applicable laws, rules and regulations.

11. The Grantee is responsible for ensuring that the fully executed consent is officially recorded and filed in the county of record, and a copy is provided to the undersigned Real Estate Contracting Officer within 30 days of receipt.

REMAINDER OF PAGE LEFT INTENTIONALLY BLANK

RECEIVED

By rabsah at 9:43 am, Feb 20, 2019

ACKNOWLEDGMENT

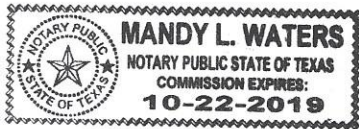
STATE OF TEXAS

}
} SS.
}

COUNTY OF TARRANT

On this 20th day of April, 2017, before me, the undersigned officer, personally appeared within named Rocky D. Lee, District Chief, Real Estate Division, United States Army Corps of Engineers, Fort Worth District, on behalf of the United States of America, and known to me to be the person whose name is subscribed to the foregoing instrument by virtue of the above-cited authority and acknowledged to me that he executed the same in such capacity for the purposes and consideration therein expressed.

Given under my hand and seal this 20th day of April, 2017.



Mandy L. Waters
Notary Public, State of Texas
My Commission Expires: 10-22-19
Printed Name: Mandy L. Waters

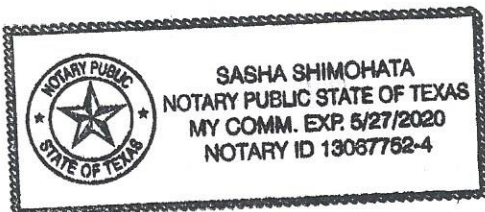
STATE OF TEXAS

}
} SS.
}

COUNTY OF Bexar

On this 5 day of April, 2017, before me, the undersigned officer, personally appeared Mark L. Reis & Janis R. Reis, known to me to be the person described in the foregoing instrument, who acknowledged that he executed the same in the capacity therein stated and for the purpose therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

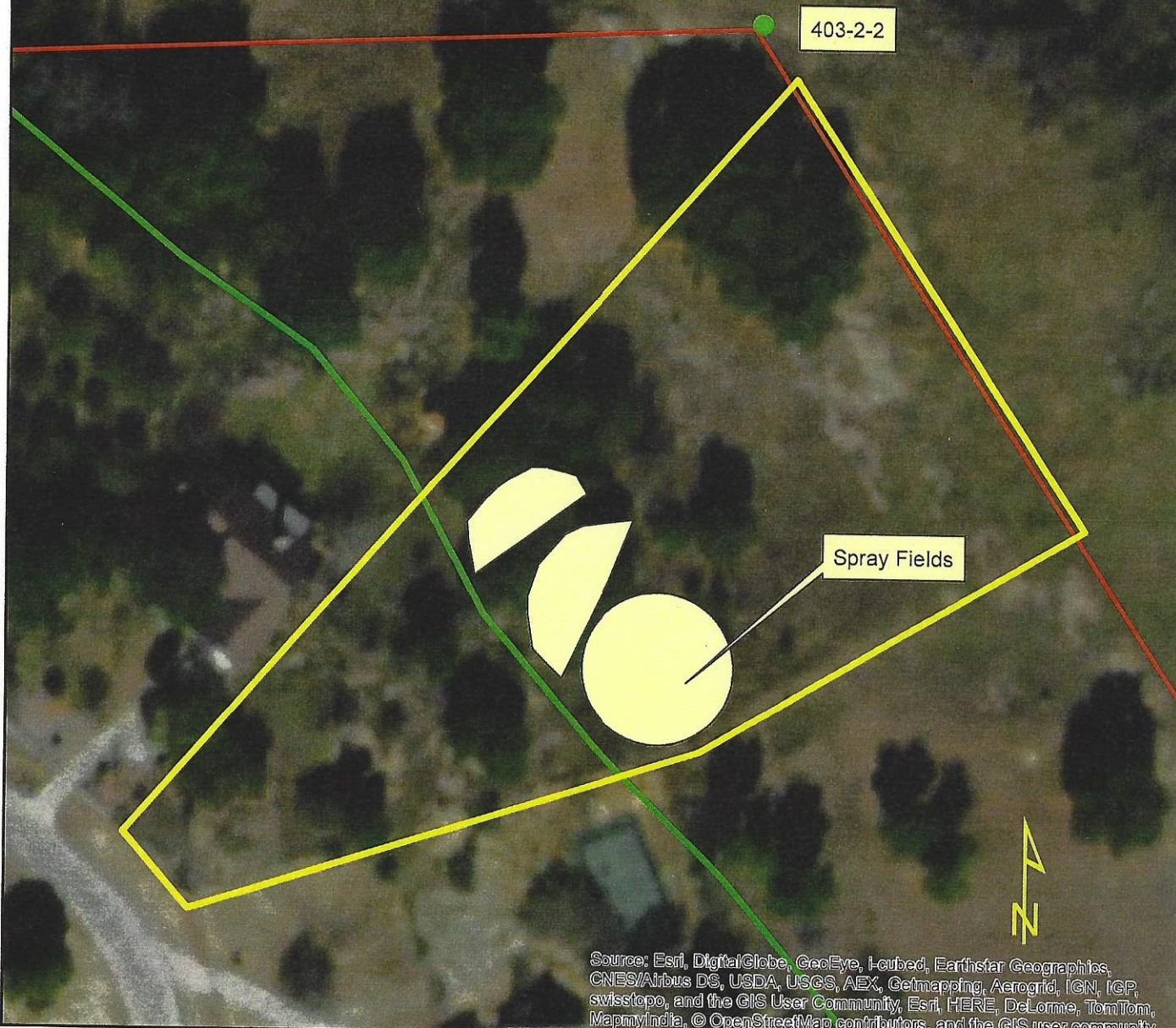


Sasha Shimohata
Notary Public, State of Texas
My Commission Expires: 5/27/2020
Printed Name: Sasha Shimohata

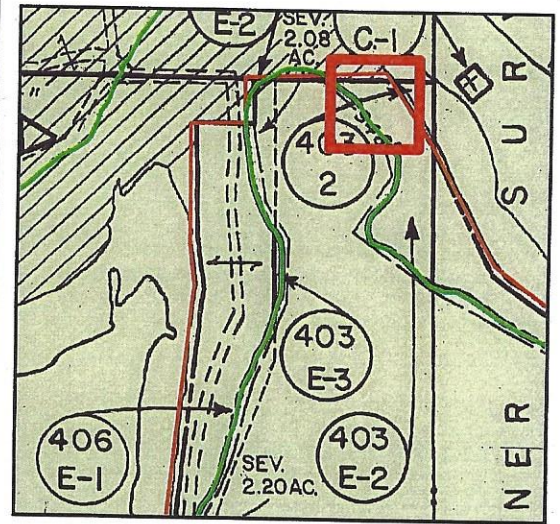
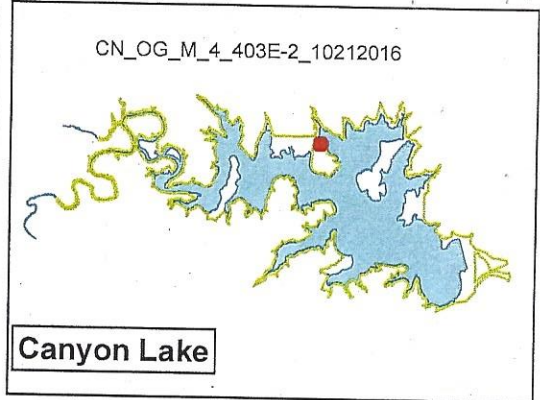
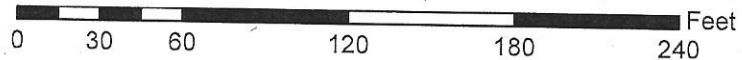
1105 Marine Circle, Canyon Lake, TX
Mark and Janis Reis
Request for OSSF
FE Tract 403E-2

RECEIVED

By rabsah at 9:43 am, Feb 20, 2019



Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



Legend

- US Boundary Line
- Comal_Parcels
- 948 Flowage Easement

The U. S. Army Corps of Engineers has provided these spatial data as a representation of the various geographic information gathered from multiple sources. These data should be viewed only as a representation of the provided information and should not be used for any other purpose. No guarantee is made by the U. S. Army Corps of Engineers regarding the accuracy or completeness of the data or their suitability for a particular use.

1 inch = 22 yards



GENERAL WARRANTY DEED

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

PROVIDENCE TITLE
GF NO. 132000707

Date: FEBRUARY 21st 2017

Grantor: 1105MARINECIRCLEREIS, LLC, A TEXAS LIMITED LIABILITY COMPANY

Grantor's Address (including County):

27302 SPRIAL CANYON
SAN ANTONIO, TEXAS 78261
BEXAR COUNTY

Grantee: JANIS RUTH REIS AND MARK LEONARD REIS, WIFE AND HUSBAND

Grantee's Address (including County):

27302 SPRIAL CANYON
SAN ANTONIO, TEXAS 78261
BEXAR COUNTY

Consideration: TEN AND NO/100-----(\$10.00)-----DOLLARS;
and other good and valuable considerations in hand paid by the GRANTEE herein named, the receipt of which is hereby acknowledged;

MADE EFFECTIVE THE DATE FIRST HEREINABOVE SPECIFIED.

1105MARINECIRCLEREIS, LLC, A TEXAS LIMITED LIABILITY COMPANY

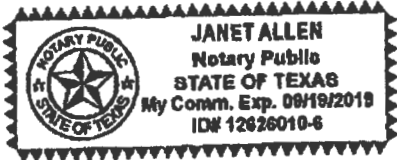
Janis R. Reis
JANIS R. REIS, MANAGER

Mark L. Reis
MARK L. REIS, MANAGER

ACKNOWLEDGMENT

THE STATE OF TEXAS §
 §
COUNTY OF §

This instrument was acknowledged before me on the 27th day of FEBRUARY, 2017, by JANIS R. REIS AND MARK L. REIS MANAGERS, of 1105MARINECIRCLEREIS, LLC, A TEXAS LIMITED LIABILITY COMPANY, on behalf of said entity and in the capacity herein stated.



Janet Allen
NOTARY PUBLIC, STATE OF TEXAS

AFTER RECORDING RETURN TO:

JANIS RUTH REIS AND MARK LEONARD REIS
27302 SPRIAL CANYON
SAN ANTONIO, TEXAS 78261

PREPARED IN THE LAW OFFICE OF:

RAMSEY & FOSTER, P.C.
5001 HWY 287 SOUTH, STE. 105
ARLINGTON, TEXAS 76017

Filed and Recorded
Official Public Records
Bobbie Koeppe, County Clerk
Comal County, Texas
03/14/2017 03:57:30 PM
CASHONE 3 Pages(s)
201706013299



Bobbie Koeppe

Property (including any improvements):

**1105 MARINE CIRCLE, CANYON LAKE, TEXAS 78133 ALSO KNOWN AS;
BEING LOT 154R, OF VACATE AND REPLAT OF LOTS 154, 155, 156R, AND 160RR,
CANYON LAKE ISLAND SUBDIVISION ESTABLISHING LOTS 154R, 156RR, AND
160RRR, AN ADDITION TO COMAL COUNTY, TEXAS, ACCORDING TO THE MAP OR
PLAT THEREOF RECORDED IN CLERK'S FILE NO. 200806040072, OF THE PLAT
RECORDS, COMAL COUNTY, TEXAS.**

Reservations from Conveyance:

None.

Exceptions to Conveyance and Warranty:

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

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

Current ad valorem taxes on said property having been prorated, the payment thereof is assumed by Grantee.

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

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded

Items Date Received	Initials

Permit Number

Instructions:

Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist **must** accompany the completed application.

OSSF Permit

Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate

Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer

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

RECEIVED

JAN 17 2019

Required Permit Fee

COUNTY ENGINEER

Copy of Recorded Deed

Surface Application/Aerobic Treatment System

Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public

Signed Maintenance Contract with Effective Date as Issuance of License to Operate

Portion of Proposed OSSF Located in the United States Army Corps of Engineers (USACE) Flowage Easement

USACE Consent for proposed OSSF

I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application.

Signature of Applicant

Date

<input type="checkbox"/> COMPLETE APPLICATION	
Check No. _____	Receipt No. _____

<input type="checkbox"/> INCOMPLETE APPLICATION
(Missing Items Circled, Application Refused)

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

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 10/8/2019
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit #: 108640 Customer ID: 4819
Agency: Comal County Contract Dates: 2/8/2019 - 2/8/2020
County: Comal Sub: Canyon Lake Island Scheduled Date: 10/8/2019 Inspection 3 of 3
Mfg / Brand: Advantage Wastewater LLC - Nu Water Installed: 12/12/2016
Treatment Type: Aerobic With Chlorine System S/N: B23973 Warranty End: 12/12/2018
Disposal: Surface Application GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 10/8/2019

Time In: 3:20pm

Out: 3:40pm

Entered By: Jose Luis Ramos

Method: Grab

Technician: Jose Luis Ramos

Maint. Provider: Burt Seidensticker

Aerators: Operational
Filters: Operational
Irrigation Pumps: Operational
Disinfection Device: Operational
Chlorine Supply: Operational
Chlorine Residual: .65

Sludge Levels
For Tank 1: 16"
For Tank 2: 0"
For Tank 3: 0"

CFM: 2.0

Air Filter: Good

Tank Lid / Riser: Secured

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

Color: Good
Odor: Good

Alarm: Operational

PSI Pressure: 3.0

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Scum in pretreatment is 8". Rest timer. - Cleaned compressor filter. - Secured system in the on position with a lock bolt.

Insp ID #: 84359

Provider: Burt Seidensticker

Technician: Jose Luis Ramos

License #: MP0000002

License #: MT0001770

Expires: 9/30/2022

Jose R.

Burt Seidensticker

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

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

Date: 12/11/2019

To: **Mark Reis**
27302 Spiral Canyon
San Antonio, TX 78261

Contract Period

Start Date: 2/8/2020
End Date: 2/8/2021

Permit #:

Warranty Expired: 12/12/2018

108640

Phone: (210) 412-5989 Subdivision: Canyon Lake Island
Site: 1105 Marine Circle, Canyon Lake, TX 78133
County: Comal
Installer: Doug Dowlearn
Agency: Comal County
Mfg/Brand: Advantage Wastewater LLC / Nu Water

Installed: 12/12/2016

3 visits per year - one every 4 months
600 gallons per day
Block Creek Concrete Products, LLC
Map Key: ID: 4819

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between _____ (hereinafter referred to as "Customer") and Block Creek Aerobic 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 2/8/20 and ends on 2/8/21 for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

III. Termination of Agreement:

This Agreement may be terminated 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 in two (2) business days after said notification.
- d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).
- e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.
- f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

V. Disinfection:

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):

1. 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 any and all alarms, and/or any and all problems with, including failure of, the OSSF.
- e. Provide, upon request by Contractor, water usage records for the OSSF so that the Contractor can perform a proper evaluation of the performance of the OSSF.
- f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluating the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section IV (d) above, Customer agrees to pay Contractor for the sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing.
- g. Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.
- h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.
- i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by 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 Customer's 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.

THIS INDEMNIFICATION APPLIES EVEN IF SUCH LIABILITIES ARE CAUSED BY THE CONCURRENT OR CONTRIBUTORY NEGLIGENCE OR BY THE STRICT LIABILITY OF ANY INDEMNITEE.

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

XV. Application or Transfer of payment:


The fees paid for this agreement may be transferred to subsequent property owner(s); however, this Agreement is not transferable. Customer shall advise the subsequent property owner(s) of the State requirement that they sign a replacement agreement authorizing Contractor to perform the herein described Services, and accepting Customer's Responsibilities. This replacement 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.

 _____ 12/30/19
Block Creek Aerobic Services, LLC, Customer Signature Date

Contractor
MP#0002036
Rudy Carson


Rudy Carson

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

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

To: **Mark Reis**
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 1/28/2020
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit # 108640

Agency: Comal County
County: Comal Sub: Canyon Lake Island
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine System S/N: B23973
Disposal: Surface Application

Customer ID: 4819
Contract Dates: 2/8/2020 - 2/8/2021
Scheduled Date: 2/8/2020 Inspection 1 of 3
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

✓ This counts as a type of "Scheduled Inspection"

Visit Date: 1/28/2020

Time In: 3:50pm

Out: 4:17pm

Entered By: Anthony Jesus Soto

Method: Grab

Technician: Anthony Jesus Soto

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: 0.40mg/L

Sludge Levels

For Tank 1: 0"

For Tank 2: 0"

For Tank 3: 0"

CFM: 2.2

Air Filter: Good

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

PSI Pressure: 3.4

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. Reset timer. - Cleaned compressor filter. - Secured system in the on position with a lock bolt. Broke up scum in pretreatment. - Observed Fire Ant Mound that were active at base of compressor, they will do electrical damage.

✓ Service Completed

Insp ID #: 89071

Provider: **Rudy Carson**

Technician: *Anthony Jesus Soto*

License #: MP3002036

License #: MT3031771

Expires: 9/30/2022



Rudy Carson



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

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 4/16/2020
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit # 108640

Agency: Comal County

County: Comal

Sub: Canyon Lake Island

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic With Chlorine System S/N: B23973

Disposal: Surface Application

Customer ID: 4819

Contract Dates: 2/8/2020 - 2/8/2021

Scheduled Date: 6/8/2020

Installed: 12/12/2016

Warranty End: 12/12/2018

GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Customer Request

Visit Date: 4/16/2020

Time In: 0350pm

Out: 0410pm

Entered By: Michael Prosisie

Method: Grab

Technician: Michael Prosisie

Maint. Provider: Rudy Carson

Tank Lid / Riser: Secured

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. Red light off upon arrival- cleaned pump screen and sprinkler screens. Flushed lines

✓ Service Completed

Insp ID #92242

Provider:

Rudy Carson

Technician: **Michael Prosisie**

License #: MP0002036

License #: MP0002291

Expires: 2/28/2023

Rudy Carson

Rudy Carson

[Signature]

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

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

To: Mark Reils
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 9/14/2020
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit #: 109640

Agency: Comal County
County: Comal Sub: Canyon Lake Island
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine System S/N: B23973
Disposal: Surface Application

Customer ID: 4819
Contract Dates: 2/8/2020 - 2/8/2021
Scheduled Date: 10/8/2020 Inspection 3 of 3
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 9/14/2020

Time In: 0905am

Out: 0945am

Entered By: Michael Prorise

Method: Grab

Technician: Michael Prorise

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: .01

Sludge Levels

For Tank 1: 5"

For Tank 2: 14"

For Tank 3: 0"

CFM: 3.0

Air Filter: Good

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

PSI Pressure: 3.0

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Secured system in the on position with a lock bolt - Scum in pretreatment is 3". Sprinklers barely spray- cleaned pump screen and sprinkler screens and flushed lines. Dosing tank was alarming- disconnected air switch. Pretreatment full to the riser- appears to be clogged t-baffle between pretreatment and aeration chamber. - ***SYSTEM PUMPING NEEDED*** We recommend R.W. Septic their number is 830-377-3995 to see if they can find blockage.

Insp ID #: 98589

Provider:

Rudy Carson

Technician: **Michael Prorise**

License #: MP0002036

License #: MP0002291

Expires: 2/28/2023

Rudy Carson
Rudy Carson

Michael Prorise

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

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 6/4/2020
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit #: 108640
Agency: Comal County
County: Comal Sub: Canyon Lake Island
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine System S/N: B23973
Disposal: Surface Application

Customer ID: 4819
Contract Dates: 2/8/2020 - 2/8/2021
Scheduled Date: 6/8/2020 Inspection 2 of 3
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

✓ This counts as a type of "Scheduled Inspection"
Entered By: Alex Seidensticker

Visit Date: 6/4/2020 Time In: 11230 Out: 1245

Method: Grab

Technician: Alex Seidensticker

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: 0.3mg/L

Sludge Levels

For Tank 1: n/a

For Tank 2: n/a

For Tank 3: 0"

CFM: 2.0

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Odor: Good

Alarm: Operational

PSI Pressure: 2.9

Comments

✓ Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. Due to covid 19 we're only checking pump tanks.
recommended by TOWA. - Cleaned compressor filter. Reset timer. - Secured system in the on position with a lock bolt.

Insp ID # 94309

Provider:

Rudy Carson

Technician: **Alex Seidensticker**

License # MP0002006

License # MP0001961

Expires: 9/30/2021

Rudy Carson

Rudy Carson

AS

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

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

Date: 11/24/2020

Permit #: 108640

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Contract Period

Start Date: 2/8/2021
End Date: 2/8/2022

Phone: (210) 412-5989 Subdivision: Canyon Lake Island
Site: 1105 Marine Circle, Canyon Lake, TX 78133
County: Comal
Installer: Doug Dowlearn
Agency: Comal County
Mfg/Brand: Advantage Wastewater LLC / Nu Water

Installed: 12/12/2016
Warranty Ends: 12/12/2018

Block Creek Concrete Products, LLC
3 visits per year - one every 4 months
600 gallons per day
Map Key ID 4819


This is to Certify that the above RESIDENTIAL sewage system has an INITIAL inspections agreement per Texas Commission on Environmental Quality (TCEQ) standards for on site sewerage facilities as required.

Inspection reports by the above service company will be filed with the authorized agency as required by the TCEQ regulations. A weather proof tag or label will be attached to the controller showing the month that each inspection was made.

Items included on the Inspection Report generally include aerators, filters, irrigation pump, air compressor, disinfection device, chlorine supply, OK System light, spray field vegetation, probe, sprinkler or drip backwash.

We will visit your site within 48 hours of you notifying us of a problem.

Certified Inspector: _____ Date: 11.24.2020


Rudy Carson

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

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed 2/11/2021
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit #: 108640
Agency: Comal County
County: Comal Sub: Canyon Lake Island
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine System S/N: B23973
Disposal: Surface Application

Customer ID: 4819
Contract Dates: 2/8/2021 - 2/8/2022
Scheduled Date: 2/8/2021 Inspection 1 of 3
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 2/11/2021

Time In: 9:50am

Out: 10:06am

Entered By: Alejandro Gonzalez

Method: Grab

Technician: Alejandro Gonzalez

Maint. Provider: Burt Seidensticker

Aerators: Operational
Filters: Operational
Irrigation Pumps: Operational
Disinfection Device: Operational
Chlorine Supply: Operational
Chlorine Residual: 0.72mg/L

Sludge Levels
For Tank 1: 24
For Tank 2: 14
For Tank 3: 0"

Air Filter: Good

Tank Lid / Riser: Secured

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

Color: Good
Odor: Good

Alarm: Operational

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. 2" of scum in pretreatment. - Cleaned compressor filter. Reset timer. - Secured system in the on position with a lock bolt. Add liquid bleach soon, its low.

Insp ID #: 105382

Provider: Burt Seidensticker

Technician: Alejandro Gonzalez

License #: MP0000002

License #: MT0000996

Expires:



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

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 5/12/2021
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit #: 108640
Agency: Comal County
County: Comal Sub: Canyon Lake Island
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine System S/N: B23973
Disposal: Surface Application

Customer ID: 4819
Contract Dates: 2/8/2021 - 2/8/2022
Scheduled Date: 6/8/2021 Inspection 2 of 3
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 5/12/2021

Time In: 1045am

Out: 1200pm

Entered By: Alex Seidensticker

Method: Grab

Technician: Alex Seidensticker

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: 0.52

Sludge Levels

For Tank 1: 10"

For Tank 2: 0"

For Tank 3: 0"

CFM: 3.2

Tank Lid / Riser: Secured

Insp. Port / Plug: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

PSI Pressure: 3.2

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving. - Cleaned compressor filter - Scum in pretreatment is 12" Red light - pulled pump cleaned pump screen, cleaned 3 sprinkler screens, replaced 2 sprinklers that were not rotating. System will spray until water level goes back to normal.

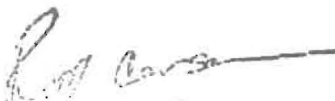
Insp ID #: 108760

Provider: **Rudy Carson**

Technician: **Alex Seidensticker**

License Info: MP0002036 Expires: _____

License Info: MP0001961 Expires: 9/30/2021


Rudy Carson



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

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed 6/25/2021
Site 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit # 108640
Agency Comal County
County Comal Sub: Canyon Lake Island
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine System S/N: B23973
Disposal Surface Application

Customer ID 4819
Contract Dates 2/8/2021 - 2/8/2022
Scheduled Date 10/8/2021

Installed 12/12/2016
Warranty End 12/12/2018

GPS Coordinates - Latitude 29 90677 Longitude -98 25661

Service Type: Customer Request

Visit Date: 6/25/2021

Time In 1110am

Out 1130am

Entered By: Michael Prorise

Method: Grab

Technician: Michael Prorise

Maint. Provider: Rudy Carson

Tank Lid / Riser: Secured

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. Sprinkler not spraying correctly- cleaned all sprinkler screens and flushed lines

Insp ID # 110767

Provider:

Rudy Carson

Technician: **Michael Prorise**

License # MP0002036

License # MP0002291

Expires 2/28/2023



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

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

To: **Mark Reis**
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 10/15/2021
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit #: 108640 Customer ID: 4819
Agency: Comal County Contract Dates: 2/8/2021 - 2/8/2022
County: Comal Sub: Canyon Lake Island Scheduled Date: 10/8/2021 Inspection 3 of 3
Mfg / Brand: Advantage Wastewater LLC - Nu Water Installed: 12/12/2016
Treatment Type: Aerobic With Chlorine System S/N: B23973 Warranty End: 12/12/2018
Disposal: Surface Application GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Visit Date: 10/15/2021 Time In: 1020 Out: 1040

Entered By: Alejandro Gonzalez

Method: Grab

Technician: Alejandro Gonzalez

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: .2

Sludge Levels

For Tank 1: 12"

For Tank 2: 0"

For Tank 3: 0"

CFM: 3.2

Air Filter: Good

Tank Lid / Riser: Secured

Insp. Port / Plug: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Bad

Odor: Good

Alarm: Operational

PSI Pressure: 3.3

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Inspection Port Plug was noted as Secured prior to leaving. - Scum in pretreatment is 0". - Cleaned compressor filter.

Service Completed

Insp ID #: 115073

Provider: **Rudy Carson**

Technician: **Alejandro Gonzalez**

License #: MP0002036

License #: MT0000996

Expires:

Block Creek Aerobic Services, LLC
444 A Old Hwy No 9
Comfort, TX 78013

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Customer ID
4819

Contract Period
Start Date: 2/8/2022
End Date: 2/8/2023

Email: markreis1946@gmail.com

Permit #: 108640

Phone: (210) 412-5989 Subdivision: Canyon Lake Island
Site: 1105 Marine Circle, Canyon Lake, TX 78133

County: Comal

Installed: 12/12/2016

Block Creek Concrete Products, LLC

Installer: Doug Dowlearn

Warranty End: 12/12/2018

3 visits per year - one every 4 months

Agency: Comal County

600 gallons per day

Mfg/Brand: Advantage Wastewater LLC-Nu Water-B23973

This is to Certify that the above RESIDENTIAL sewage system has an INITIAL inspections agreement per Texas Commission on Environmental Quality (TCEQ) standards for on site sewerage facilities as required.

Inspection reports by the above service company will be filed with the authorized agency as required by the TCEQ regulations. A weather proof tag or label will be attached to the controller showing the month that each inspection was made.

Items included on the Inspection Report generally include aerators, filters, irrigation pump, air compressor, disinfection device, chlorine supply, OK System light, spray field vegetation, probe, sprinkler or drip backwash.

We will visit your site within 48 hours of you notifying us of a problem

Certified Inspector: 

Date: 12.21.2021

Rudy Carr

Date Printed: 12/21/2021

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

Email

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 1/7/2022
Site: 1105 Marine Circle
Canyon Lake, TX 78133
(210) 412-5989

Permit #: 108640	Customer ID: 4819	-----
Agency: Comal County	Contract Dates: 2/8/2022 - 2/8/2023	
County: Comal	Scheduled Date 2/8/2022	Inspection 1 of 3
Sub: Canyon Lake Island		Installed: 12/12/2016
Mfg / Brand: Advantage Wastewater LLC - Nu Water		Warranty End: 12/12/2018
Treatment Type: Aerobic With Chlorine	System S/N: B23973	
Disposal: Surface Application	GPS Coordinates - Latitude: 29.90677 Longitude: -98.25661	

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"

Entered By: Michael Prosisie

Visit Date: 1/7/2022

Time In: 0410pm

Out: 0455pm

Method: Grab

Technician: Michael Prosisie

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: .92

Sludge Levels

For Tank 1: 13"

For Tank 2: 0"

For Tank 3: 0"

CFM: 3.0

Air Filter: Good

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

PSI Pressure: 3.0

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Secured system in the on position with a lock bolt - Scum in pretreatment is 6". Cleaned pump screen and all sprinkler screens. Flushed lines and replaced 1 sprinkler.

Owner signature:

Insp ID #: 118909

Provider:

Rudy Carson

Technician: **Michael Prosisie**

License Info: MP0002036 Expires:

License Info: MP0002291 Expires: 2/28/2023

[Handwritten Signature]

Block Creek Aerobic Services, LLC
444 A Old Hwy No 9
Comfort, TX 78013

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

To: **Mark Reis**
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 3/17/2023
Insp ID #: 137717
Main Phone: (210) 412-5989
Work:
Cell Phone:
Alt Cell: (210) 493-2323

Permit #: **108640**

Agency: Comal County
County: Comal
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine
Disposal: Surface Application
Sub: Canyon Lake Island
System S/N: B23973

Customer ID: 4819
Contract Dates: 2/8/2023 - 2/8/2024
Scheduled Date: 2/8/2023
Inspection 1 of 3
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates: Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"
Entered By: Trenton L Soldan

Visit Date: 3/17/2023

Time In: Out: 423

Method: Grab

Technician: Trenton L Soldan

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: .7

Sludge Levels

For Tank 1: 12"

For Tank 2: 0"

For Tank 3: 0"

Floats: OP

Timer: OP

Air Filter: Good

Turbidity: Good

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Tank Lid / Riser: Secured

Color: Good

Odor: Good

Alarm: Operational

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Scum in pretreatment is 3".
Unplugged sprinkler heads and adjusted spray direction away from the pool.

Service Completed

Site: 1105 Marine Circle, Canyon Lake, TX 78133

Provider: **Rudy Carson**

Technician: **Trenton L Soldan**

License Info: MP0002036 Expires: 11/30/2025

License Info: MT0002287 Expires: 3/31/2025

Block Creek Aerobic Services, LLC
444 A Old Hwy No 9
Comfort, TX 78013

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 7/18/2023
Insp ID #: 142936
Main Phone: (210) 412-5989
Work:
Cell Phone:
Alt Cell: (210) 493-2323

Permit #: **108640**
Agency: Comal County
County: Comal
Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine
Disposal: Surface Application
Sub: Canyon Lake Island
System S/N: B23973

Customer ID: 4819
Contract Dates: 2/8/2023 - 2/8/2024
Scheduled Date: 6/8/2023
Inspection 2 of 3
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates: Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

This counts as a type of "Scheduled Inspection"
Entered By: Julio C Esquivel

Visit Date: 7/18/2023 Time In: 3:20pm Out: 3:35pm

Method: Grab
Technician: Julio C Esquivel
Maint. Provider: Rudy Carson

Aerators: Operational
Filters: Operational
Irrigation Pumps: Operational
Disinfection Device: Operational
Chlorine Supply: Operational
Chlorine Residual: .1

Sludge Levels
For Tank 1: 12"
For Tank 2: 0"
For Tank 3: 0"

Floats: OP
Timer: OP

Air Filter: Good

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

Tank Lid / Riser: Secured

Color: Good
Odor: Good

Alarm: Operational

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - check sprinklers - adjust timer - Scum in pretreatment is 5"

Service Completed

Site: 1105 Marine Circle, Canyon Lake, TX 78133

Provider: Rudy Carson

Technician: Julio C Esquivel

License Info: MP0002036 Expires: 11/30/2025

License Info: MT0002400 Expires: 10/31/2025

Block Creek Aerobic Services, LLC
444 A Old Hwy No 9
Comfort, TX 78013

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 10/11/2023
Insp ID #: 146614
Main Phone (210) 412-5989
Work:
Cell Phone:
Alt Cell: (210) 493-2323

Permit #: **108640**

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic With Chlorine System S/N: B23973

Disposal: Surface Application

Customer ID: 4819

Contract Dates: 2/8/2023 - 2/8/2024

Scheduled Date: 10/8/2023

Inspection 3 of 3

Installed: 12/12/2016

Warranty End: 12/12/2018

GPS Coordinates: Latitude: 29.90677 Longitude: -98.25661

Service Type: Scheduled Inspection

Visit Date: 10/11/2023

Time In:

This counts as a type of "Scheduled Inspection"
Entered By: Jason K Stanberry

Method: Grab

Technician: Jason K Stanberry

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: .6

Sludge Levels

For Tank 1: 0"

For Tank 2: 0"

For Tank 3: 0"

Floats: OP

Timer: OP

Air Filter: Good

Turbidity: Good

Tank Lid / Riser: Secured

Color: Good

Odor: Good

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Alarm: Operational

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Scum in pretreatment is 0" just had system pumped out. Replaced 1 light bulb, replaced comp. toggle switch, replaced 4 sprinklers that were not rotating.

Site: 1105 Marine Circle, Canyon Lake, TX 78133

Service Completed

Provider: Rudy Carson

Technician: Jason K Stanberry

License Info: MP0002036 Expires: 11/30/2025

License Info: MP0002388 Expires: 10/30/2024

Block Creek Aerobic Services, LLC
444 A Old Hwy No 9
Comfort, TX 78013

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

To: Mark Reis
27302 Spiral Canyon
San Antonio, TX 78261

Printed: 10/19/2023 Main Phone: (210) 412-5989
Insp ID #: 145895 Work:
Cell Phone:
Alt Cell: (210) 493-2323

E-mail

Permit #: **108640**

Agency: Comal County Sub: Canyon Lake Island
County: Comal Mfg / Brand: Advantage Wastewater LLC - Nu Water
Treatment Type: Aerobic With Chlorine System S/N: B23973
Disposal: Surface Application

Customer ID: 4819
Contract Dates: 2/8/2023 - 2/8/2024
Scheduled Date: 10/8/2023
Installed: 12/12/2016
Warranty End: 12/12/2018
GPS Coordinates: Latitude: 29.90677 Longitude: -98.25661

Service Type: Customer Request

Visit Date: 10/19/2023

Time In: 400PM

Out: 420PM

Entered By: Ronnie W Krampota

Method: Grab

Technician: Ronnie W Krampota

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Floats: OP

Timer: OP

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Tank Lid / Riser: Secured

Alarm: Operational

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Secured system in the on position with a lock bolt - Yellow light - Rebuilt compressor

Site: 1105 Marine Circle, Canyon Lake, TX 78133

Provider:

Rudy Carson

Technician: Ronnie W Krampota

License Info: MP0002036 Expires: 11/30/2025

License Info: MT0001175 Expires: 7/31/2023



Block Creek Aerobic Services, LLC

444 A Old Hwy No 9
Comfort, TX 78013

(830) 995-3189

Printed:1/25/2024

Permit: 108640

Site: 1105 Marine Circle, Canyon Lake, TX 78133

Main Phone: 2104125989

Mark Reis

27302 Spiral Canyon
San Antonio, TX 78261

Alt Cell: 2104932323

Agency: Comal County

County: Comal

Subdivision: Canyon Lake Island

System Info: MFG: Advantage Wastewater LLC Brand: Nu Water

Customer ID: 4819

Treatment Type: Aerobic With Chlorine Disposal Type: Surface Application

Insp ID: 153325

Installed: 12/12/2016

Warranty Expiration: 12/12/2018

System S/N: B23973

Visit Details

Visit Date: 1/25/2024

Entered By: Alejandro Gonzalez

GPS Lat: 29.90677 GPS Long: -98.25661

Scheduled Date: 2/8/2024

Time In:

Contract Starts: 2/8/2023

Entered On: 1/25/2024

Contract Ends: 2/8/2024

Visit Results

Service Type: Scheduled Inspection

Count: Inspection 4 of 3

Method: Grab

License #

Expires

Technician: Alejandro Gonzalez

MT0000996

1/31/2025

Provider: Rudy Carson

MP0002036

11/30/2025

Service Completed

Aerators: Operational

Sludge Level Tank 1: 10"

Filters: Operational

Sludge Level Tank 2: 0"

Irrigation Pumps: Operational

Sludge Level Tank 3: 0"

Disinfection Device: Operational

Chlorine Supply: Operational

Floats: OP

Turbidity: Good

Chlorine Residual: 1

Timer: OP

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Drip/Sprayfield Veg: Operational

Color: Good

Odor: Good

Alarm: Operational

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Scum in pretreatment is 1" - Technician Secured the Tank Lid and/or Riser prior to leaving location.

Provider: *Rudy Carson*

Technician: *Alejandro Gonzalez*

License: Number: MP0002036 Exp: 11/30/2025

License: Number: MT0000996 Exp: 1/31/2025



WASTEWATER TREATMENT SYSTEM MAINTENANCE CONTRACT

Customer	Residential	Initial Contract
Mike Brady	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site Address	Agency	
1105 Marine Circle, ,	Comal County	
Email	Phone	Permit Number
mexicanhat@gvtc.com		
System Details		
New Maintenance Contract		

AGREEMENT

I. General:

This work for hire agreement (hereinafter referred to as "Agreement") is entered into by and between the Client and Luna Environmental, LLC (hereinafter referred to as "Contractor"), located at 4222 FM 482 New Braunfels, Texas 78132. By this agreement, Contractor agrees to render services, as described herein, and Client agrees to fulfill his/her/their responsibilities under the agreement as described herein.

II. Dates & Fees:

This agreement provides maintenance from to for a total fee of

III. Services by Contractor:

- Inspect and perform routine maintenance on the On-Site Sewage Facility ("OSSF") in compliance with code, regulations, and/or rules of the Texas Commission on Environmental Quality ("TCEQ") and county in which the OSSF is located and the manufacturer's requirements, at a frequency of approximately once every four (4) months.
- Inspection, adjustment, and servicing of the mechanical, electrical, and other components to ensure proper functioning. This includes inspecting control panels, air pumps, air filters, diffusers, floats, and spray heads.
- Effluent Inspection will include the following: effluent quality (color, turbidity, overflow, and odor), testing effluent chlorine and pH levels, when necessary, alarm function, filters, operation of effluent pump and chlorinator. Unless otherwise agreed to, Contractor does not provide chlorine. BOD and TSS annually on commercial accounts, additional charges apply.
- Notify Client of any repairs needed to keep OSSF in proper working condition and up to regulatory standards. Items under warranty may be repaired while the technician is on-site. Additional charges may apply for labor and service calls. Repair quotes of non-warranty items must be approved by Client before work is performed.
- 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.
- Visit site within 48 hours of a service request.
- Provide Customer Support line at 855-560-9909.

IV. Client Responsibilities:

1. Maintain Chlorinator and proper chlorine supply, unless otherwise specified.
2. Provide all necessary lawn or yard maintenance and remove all obstructions, including dogs and other animals as needed to allow the OSSF to function properly and the Contractor easy and safe access to all parts of
3. Immediately notify Contractor of any alarms or system problems.
4. Have tanks pumped out as directed by manufacturer, typically every 3 years.
5. Be available by text, phone, or in person when the Contractor is on site in case of required repair approvals or questions.
6. Maintain site drainage to prevent adverse effects on OSSF.
7. Promptly pay Contractor's bills, fees, and invoices in full.

V. Access By Contractor:

Access By Contractor: The contractor or anyone authorized by the contractor may enter the property at reasonable times without prior notice for the purpose of repairs and services described herein.

VI. Termination of This Agreement:

Either party may terminate this agreement with 30 days' written notice in the event of the other party's substantive failure to perform in accordance with this agreement without fault of the terminating party. Is this agreement is terminated, the Contractor will notify the appropriate regulatory authority.

VII. Limitation of Liability:

In no event shall the 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 the direct damages exceed payments by the Client under this agreement.

VIII. Payment Terms:

The fee for this agreement only covers the services described herein. This fee does not cover equipment or labor for non-warranty repairs, labor for warranty repairs, or service charges resulting from unscheduled, Client requested trips to the Client's OSSF. Payments not received within 30 days from the date of invoicing will be subject to a \$30.00 late penalty and or a 1.5% monthly carrying charge, whichever is greater. By signing this contract, the Client authorizes the Contractor to remove any parts which were installed but not paid for at the end of 30 days. The Client is still responsible for any labor costs associated with the installation and removal of said parts. All invoices are due upon receipt by Client.

IX. Severability:

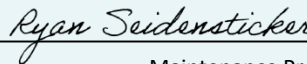
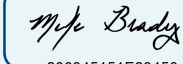
If any provision of this agreement shall be held to be invalid or unenforceable for any reason the remaining provisions shall continue to be held valid and enforceable. If a court finds that any provision of this agreement is invalid or unenforceable, by limiting such provision it would become valid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

Mike Brady

Luna Environmental / Ryan Seidensticker

DocuSigned by: Customer Name

Maintenance Provider Name



License # MP0001708

206345154E23456...

Customer Signature

Maintenance Provider Signature

Additional Comments / Special Terms



WASTEWATER TREATMENT SYSTEM MAINTENANCE CONTRACT

Customer	Residential	Initial Contract
Mike Brady	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site Address	Agency	
1105 Marine Circle, ,	Comal County	
Email	Phone	Permit Number
mexicanhat@gvtc.com		
System Details		
New Maintenance Contract		

AGREEMENT

I. General:

This work for hire agreement (hereinafter referred to as "Agreement") is entered into by and between the Client and Luna Environmental, LLC (hereinafter referred to as "Contractor"), located at 9595 Ranch Rd 12 Suite #1 Wimberley, TX 78676. By this agreement, Contractor agrees to render services, as described herein, and Client agrees to fulfill his/her/their responsibilities under the agreement as described herein.

II. Dates & Fees:

This agreement provides maintenance from **1/25/2025** to **1/25/2026** for a total fee of **\$325.00**

III. Services by Contractor:

1. Inspect and perform routine maintenance on the On-Site Sewage Facility ("OSSF") in compliance with code, regulations, and/or rules of the Texas Commission on Environmental Quality ("TCEQ") and county in which the OSSF is located and the manufacturer's requirements, at a frequency of approximately once per year for LPD systems, once every four (4) months for residential properties, or once every one (1) month for commercial properties.
2. Inspection, adjustment, and servicing of the mechanical, electrical, and other components to ensure proper functioning. This includes inspecting control panels, air pumps, air filters, diffusers, floats, and spray heads.
3. Effluent Inspection will include the following: effluent quality (color, turbidity, overflow, and odor), testing effluent chlorine and pH levels, when necessary, alarm function, filters, operation of effluent pump and chlorinator. Unless otherwise agreed to, Contractor does not provide chlorine. BOD and TSS annually on commercial accounts, additional charges apply.
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5. 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.
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If any provision of this agreement shall be held to be invalid or unenforceable for any reason the remaining provisions shall continue to be held valid and enforceable. If a court finds that any provision of this agreement is invalid or unenforceable, 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.

Mike Brady

Signed by: Customer Name

Mike Brady

286345151E23456...

Customer Signature

Luna Environmental / Logan Leppo

Maintenance Provider Name

LOGAN LEPP

License # MP0002494

Maintenance Provider Signature

Additional Comments / Special Terms: