

# Comal County Environmental Health

## OSSF Inspection Sheet

Installer Name: \_\_\_\_\_

OSSF Installer #: \_\_\_\_\_

1st Inspection Date: \_\_\_\_\_

2nd Inspection Date: \_\_\_\_\_

3rd Inspection Date: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

Permit#:

Address:

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

Inspector Notes:

**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)				
10	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed						
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

**Comal County Environmental Health  
OSSF Inspection Sheet**

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

**Comal County Environmental Health  
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
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)				
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						
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
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

---

## ENGINEER'S OFFICE

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

Permit Number: 118797  
Issued This Date: 07/24/2025  
This permit is hereby given to: Robert and Hannah Savage

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

2345 ROCKY RIDGE LOOP  
CANYON LAKE, TX 78133

Subdivision: Rocky Creek Ranch  
Unit: 7  
Lot: 200  
Block: n/a  
Acreage: 0.6200

#### 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.



# ON-SITE SEWAGE FACILITY APPLICATION

Date 06/13/2025

**REVISED**

9:34 am, Jul 23, 2025

Permit Number \_\_\_\_\_

## 1. APPLICANT / AGENT INFORMATION

Owner Name Robert and Hannah Savage  
Mailing Address PO Box 2044  
City, State, Zip Canyon Lake, Texas 78133  
Phone # 614-638-3926  
Email ty.savage@edgehomefinance.com

Agent Name John J. Haag, P.E.  
Agent Address 15831 Secret Trails  
City, State, Zip San Antonio, Tx. 78247  
Phone # 210-705-4268  
Email jhaag@satx.rr.com

## 2. LOCATION

Subdivision Name Rocky Creek Ranch Unit 7 Lot 200 Block \_\_\_\_\_  
Survey Name / Abstract Number \_\_\_\_\_ Acreage 0.62  
Address 2345 Rocky Ridge Loop City Canyon Lake State Tx. Zip 78133

## 3. TYPE OF DEVELOPMENT

☒ Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) House *INTERMITTENT USE RV JAK*

Number of Bedrooms 4

Indicate Sq Ft of Living Area 1517

☐ Non-Single Family Residential

(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: \$ 220000 (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

## 4. SIGNATURE OF OWNER

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. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.
- 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.

6/19/25



**COMAL COUNTY**  
ENGINEER'S OFFICE

**REVISED**

9:34 am, Jul 23, 2025

# ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR  
NEW BRAUNFELS, TX 78132  
(830) 608-2090  
[WWW.CCEO.ORG](http://WWW.CCEO.ORG)

Planning Materials & Site Evaluation as Required Completed By John J. Haag, P.E.

System Description Proprietary aerobic treatment with surface spray disposal

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

Tank Size(s) (Gallons) SolarAir SA600-768LP (600 gpd)

Absorption/Application Area (Sq Ft) 5313 min (5606 SF ACTUAL)

Gallons Per Day (As Per TCEQ Table III) 340

(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.)

Is there at least one acre per single family dwelling as per 285.40(c)(1)? ☐ Yes ☒ No

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.

John J. Haag, P.E.  
Signature of Designer

06/30/2025

Date

**REVISED**

9:34 am, Jul 23, 2025

Surface Disposal Residential

**Aerobic With Surface Disposal**

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

SITE EVALUATION PERFORMED ON:

11-Jun-25

by

John J. Haag, P.E.



Date: 07/22/25

APPLICANT: Robert Savage

MAILING ADDRESS:

CITY, ST, ZIP

CONTRACTOR

SITE ADDRESS: 2345 Rocky Ridge Loop

CITY, ST, ZIP Canyon Lake, Tx. 78133

LEGAL DESCRIPTION: Lot 200, Rocky Creek Ranch, Ph. 7

WATER SOURCE: Public

SOIL TYPE

3

AT SLOPE OF &lt;15%

BEDROOMS

4

Sq. Ft. 1517

Normally Required

375

GPD

340

GPD

WATER SAVING DEVICES?

Y

APPLICATION RATE =

0.064

GALLONS PER SQ. FT. PER DAY

USAGE FLOW =

340

GALLONS PER DAY WHICH IS

80%

OF

375

GPD

SEPTIC TANK VOLUME =

1,000

GALLONS TWO COMPARTMENT TANK REQUIRED

RESERVE CAPACITY =

113

(8 HOURS USAGE AFTER HIGH LEVEL ALARM)

AREA REQUIRED =

5,313

SQ. FT. OF ABSORPTION AREA

OR

0.12

ACRES

**WITHOUT WATER SAVING DEVICES**

5,859

SQ. FT. OF ABSORPTION AREA

OR

0.13

ACRES

Use a

600

GPD Treatment Plant Model

600LP

by

Solar Air

Nozzle #

PSI

(K-Rain ProPlus Low Angle Sprinkler Nozzle)

3

40

PSI WITH A 32 FOOT RADIUS AND 3.1

GPM/ SPRINKLER WITH A TOTAL OF 6.2 GPM FOR THE SYSTEM

**AREA COVERED BY PROPOSED SPRINKLER HEADS**

LINEAR FEET OF DISTRIBUTION =

152.0 FT. OF

1

INCH SCH-40 PURPLE PIPE

150

C (HAZEN-WILLIAMS)

SPACE BETWEEN SPRINKLER HEADS =

Varies

FT

3

SPRINKLERS

FOR A DOSE TIME OF 55 MINUTES

WITH ANGLE OF DISTRIBUTION =

360

AREA PER SPRINKLER =

3,217

sf

OF ABSORPTION AREA

SPRINKLERS

LENGTH OF PIPE

Dist. Angle

Flow GPM

Q GPM

Hf ft of head

Area

3

12 FT

180

1.55

6.200

0.34

1608.5

2

25 FT

180

1.55

4.650

0.42

1608.5

1

115 FT

360

3.1

3.100

0.90

3217.0

0

0

0.000

0.00

0.0

0

0

0.000

0.00

0.0

0

0

0.000

0.00

0.0

0

0

0.000

0.00

0.0

0

0

0.000

0.00

0.0

0

0

0.000

0.00

0.0

0

0

0.000

0.00

0.0

SUM=

152

feet of pipe

6.200

1.66

ft of head

6434.0 sf

Provided

fittings factor

1.20

5606.0 sf

Actual

1.99

ft of head

Hf for Dist Line 4.3113485

ft of head

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

40.00 psi divided by 0.4335 =

92.27

ft of head

elevation difference

-1.00

ft of head

head required for sprinkling

97.58

ft of head

pressure required for sprinkling

42.30

psi

1/BC



202506019562 06/30/2025 08:07:07 AM 1/1

THE COUNTY OF COMAL

STATE OF TEXAS

**CERTIFICATION OF OSSF REQUIRING MAINTENANCE**

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

I

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

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):

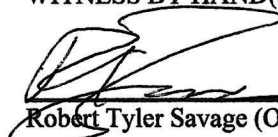
Legal Description: Lot 200, Rocky Creek Ranch, Phase 7

This property is owned by: Robert Tyler Savage and Hannah Richelle Savage


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

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

WITNESS BY HAND(S) ON THIS 19<sup>th</sup> DAY OF June, 2025.

  
Robert Tyler Savage (Owner)

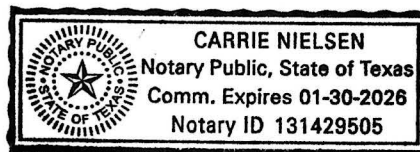
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 19<sup>th</sup> DAY OF June 2025.

  
Notary Public, State of Texas

Filed and Recorded  
Official Public Records  
Bobbie Koepf, County Clerk  
Comal County, Texas  
06/30/2025 08:07:07 AM  
PRISCILLA 1 Page(s)  
202506019562



*Bobbie Koepf*



**REVISED**

9:34 am, Jul 23, 2025

**WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT**

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

Permit/License Number \_\_\_\_\_  
Customer Robert Savage  
Site Address 2345 Rocky Ridge Loop  
City Canyon Lake Zip 78133  
Mailing Address PO Box 2044, Canyon Lake, Tx. 78133  
County Comal Map # \_\_\_\_\_  
Phone 614-638-3926  
Email ty.savage@edgehomefinance.com

**I. General:** This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between Robert Savage (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 License to Construct and ends on \_\_\_\_\_ for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may 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:

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

**V. Disinfection:**

Customer's Initials

*RTS*



RC

Contractor's Initials

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

**VI. Electronic Monitoring:**

Electronic Monitoring is not included in this Agreement.

**VII. Performance of Agreement:**

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

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

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

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

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

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

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

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

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

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

**IX. Access by Contractor:**

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

**X. Limit of Liability:**

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

**XI. Indemnification:**

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

\_\_\_\_\_  
Customer's Initials



RC

\_\_\_\_\_  
Contractor's Initials

**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 Indemnatee 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 Indemnatee; or, (2) the willful misconduct of such Indemnatee. 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:**

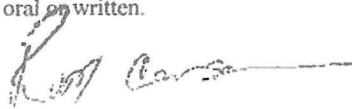
Full payment is due upon execution of this Agreement (Required of new Customer). For any other service(s) or repair(s) provided by Contractor the Customer shall pay the invoice(s) for said service(s) or repair(s) within thirty (30) days of the invoice date. The Contractor shall mail all invoices on the 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.

  
Rudy Carson

Block Creek Aerobic Services, LLC,  
Contractor  
MP# 0002036

  
Customer Signature

6/19/25  
Date

  
Customer's Initials

© 2014  
copyright  
all rights reserved

RC  
Contractor's Initials



# HAAG ENGINEERING CONSULTANTS

15831 Secret Trails • San Antonio, Texas 78247 • Tel: (210) 705-4268 • Email: [jhaagpe@gmail.com](mailto:jhaagpe@gmail.com)

June 27, 2025

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

RE: Septic Setback Variance Request  
2345 Rocky Ridge Loop  
Canyon Lake, Texas 78133

Dear Brenda:

Due to the lack of available spray application area, it is necessary to have the setback from the property line to the edge of spray area at ten feet as required by TCEQ Chapter 385 rules Table X. I hereby request a variance to the twenty foot setback to the property line(s) as required by Comal County Order and an equivalent protection will be maintained by adding a battery backup to the timer clock to ensure sprayers only spray during the pre-dawn hours.

In my professional opinion, this variance will not pose a threat to the environment or public health.

Sincerely,



06/27/25

Haag Engineering Consultants, LLC  
Firm No.: F-5789



# HAAG ENGINEERING CONSULTANTS

15831 Secret Trails • San Antonio, Texas 78247 • Tel: (210) 705-4268 • Email: [jhaagpe@gmail.com](mailto:jhaagpe@gmail.com)

June 27, 2025

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

RE: Spray Head in Floodplain  
2345 Rocky Ridge Loop  
Canyon Lake, Texas 78133

Dear Brenda:

Due to the lack of available spray application area, it is necessary to install one – septic disposal spray head in the 100-year FEMA Zone A floodplain. All other spray heads, the septic tank and all OSSF electrical equipment shall be located outside of the aforementioned floodplain. The homeowner shall turn off the power to the effluent pump during flood events and the spray head(s) is/are designed to be installed at grade to ensure that they will not be damaged during said flood events.

In my professional opinion, this spray head - if properly installed and maintained, will not pose a threat to the environment or public health.

Sincerely,



06/27/25

Haag Engineering Consultants, LLC  
Firm No.: F-5789

# ON-SITE SEWAGE FACILITY (OSSF) SITE EVALUATION FORM

## 1. OWNER INFORMATION

Property Owner's Full Legal Name: Robert Savage

## 2. PROPERTY INFORMATION

City: Canyon Lake      Zip Code: 78133

Legal Description:

Lot: 200      Block:      Subdivision: Rocky Creek Ranch      Unit: 7      Phase:

If not located in subdivision: Survey:

Abstract:      Recorded (Vol/Pg):

## 3. SITE EVALUATION INFORMATION:

Name of Site Evaluator: John J. Haag      PE #: 90158

Date Performed: 06/11/2025      Proposed Excavation Depth: Surface

## 4. REQUIREMENTS:

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

Soil Profile Hole Number: 1

Depth (ft.)	Textural Class	Gravel Analysis	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0	III	<30%	No	Yes	Type III to approx. 16" then end test hole
1					
2					
3					
4					
5					

# ON-SITE SEWAGE FACILITY (OSSF) SITE EVALUATION FORM

Soil Profile Hole Number: 2					
Depth (ft.)	Textural Class	Gravel Analysis	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
0	III	<30%	No	Yes	Type III to 18" then ended test hole
1					
2					
3					
4					
5					

## 5. FEATURES OF SITE AREA:

Presence of 100 year flood zone: ☒ Yes ☐ No  
 Presence of adjacent ponds, streams or water impoundments ☐ Yes ☒ No  
 Existing or proposed water well in nearby area ☐ Yes ☒ No  
 Organized sewage available to lot or tract ☐ Yes ☒ No  
 Recharge features within 150 feet ☐ Yes ☒ No

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



06/11/2025

Haag Engineering Consultants, LLC  
Firm: F-5789

**REVISED**

1:48 pm, Jul 18, 2025

## Septic Tank Bouyancy Calculations

for

2345 Rocky Ridge Loop, Canyon Lake, Texas 78133

Tank Type

SolarAlr SA798LP

Density of water @ 70 degrees

62.4 lb/ft<sup>3</sup>

Weight of tank

14900 lbs

Width of tank

6.42 ft

Length of tank

14.58 ft

Height of tank

4.79 ft

Weight of water displaced by tank

27979.34 lbs

Min. soil density above tank

95.00 lb/ft<sup>3</sup>

Max. soil density above tank

110.00 lb/ft<sup>3</sup>

Depth of soil above tank

18.00 in

Min. weight of soil above tank

13334.64 lbs

Max. weight of soil above tank

15440.10 lbs

Total weight of tank with min. soil density top of tank

28234.64 lbs

Float risk with min. soil density?

**No - Tank will not float**

Factor of safety with min. soil density

1.01 OK

Total weight of tank with max. soil density top of tank

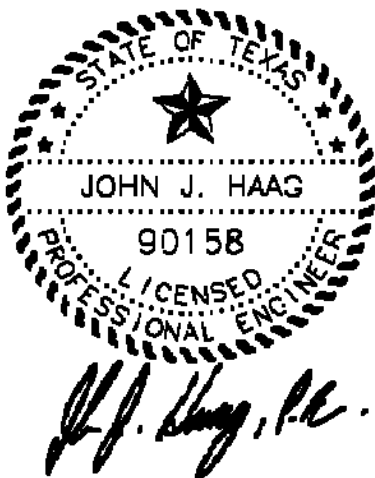
30340.10 lbs

Float risk with min. soil density?

**No - Tank will not float**

Factor of safety with min. soil density

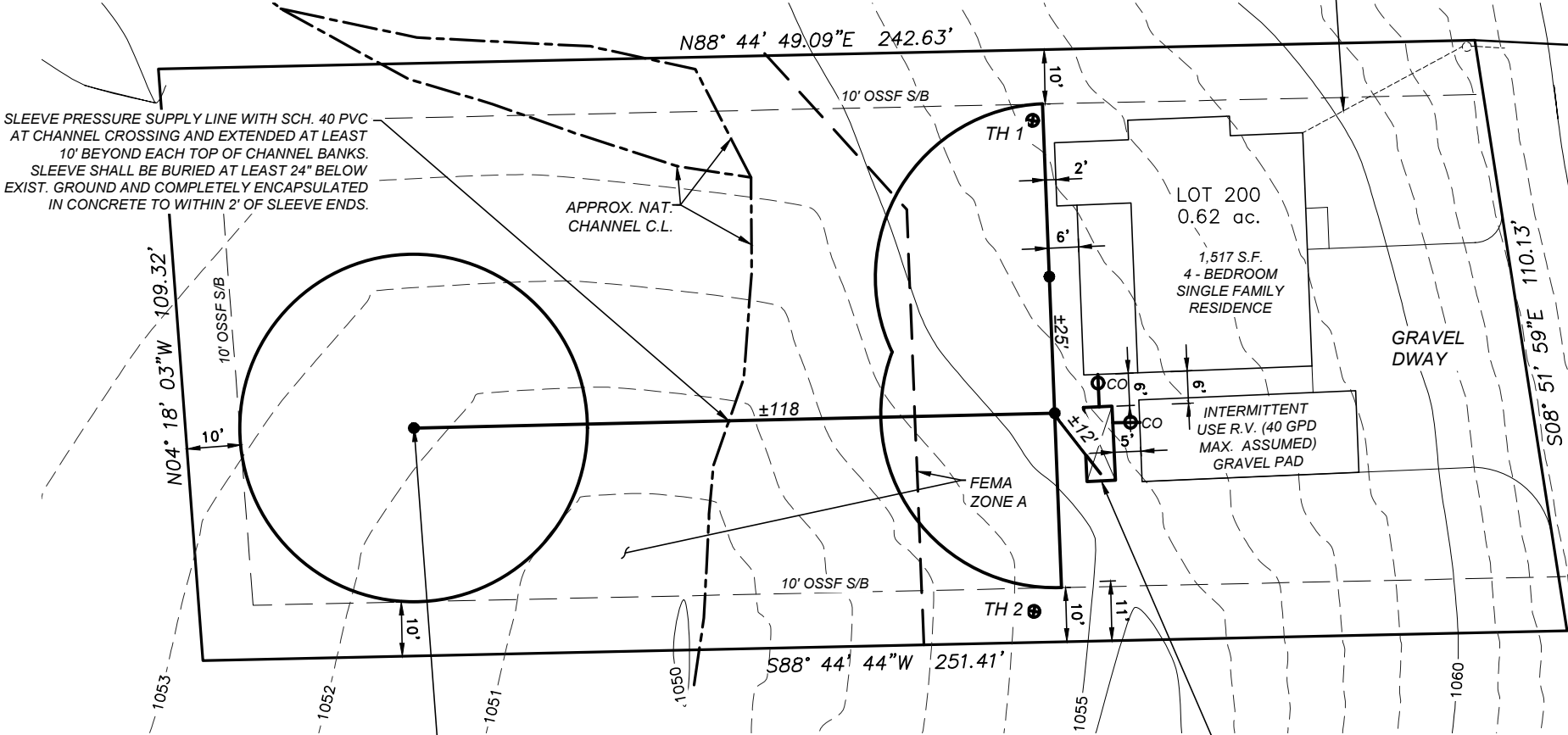
1.08 OK



7/18/2025

GENERAL NOTES:

- NO VEHICULAR TRAFFIC IS ALLOWED ON ANY PORTION OF THE DISPOSAL SYSTEM, UNLESS THE DESIGN SPECIFIES OTHERWISE.
- PIPE ALIGNMENT TO THE DISPOSAL BEDS MAY BE ALTERED AS REQUIRED. ANY CHANGE FROM THE PLANS MUST BE APPROVED BY THE ENGINEER AND THE APPROPRIATE GOVERNMENTAL AGENCY(IES).
- CONTRACTOR SHALL PROTECT TREES WHICH ARE NOT IN THE EXCAVATED CONSTRUCTION AREAS. CONTRACTOR SHALL MINIMIZE ROOT DAMAGE AND REASONABLY ADHERE TO THE DESIGN.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING A MINIMUM OF 1/4" PER FOOT OF FALL FROM THE BUILDING TO THE SEPTIC TANK.
- NO AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED OVER THE DISPOSAL AREAS. ANY WATERING IN THESE AREAS SHALL BE DONE BY HAND AND ONLY WHEN REQUIRED TO MAINTAIN GRASS COVER.
- ALL CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ANY APPLICABLE LOCAL BUILDING AND SAFETY CODES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS SYSTEM.
- SPRAY APPLICATION AREAS SHALL BE COVERED WITH PERENNIAL GRASSES TO TAKE ADVANTAGE OF TRANSPIRATION. IF GRASSES ARE USED WHICH HAVE DORMANT PERIODS, STEPS SHOULD BE TAKEN TO PROVIDE SOME TYPE OF VEGETATION ON THE BEDS DURING THESE PERIODS.
- RECOMMENDED COVERAGE:
  - BERMUDA: 1 LB/1000 S.F.
  - RYE: 10 LB/1000 S.F.
  - OR ST. AUGUSTINE SOD.
- SPRAY APPLICATION AREAS MUST BE MOWED AT REGULAR INTERVALS. FAILURE TO PROPERLY MAINTAIN VEGETATIVE COVER MAY RESULT IN SYSTEM FAILURE AND SHALL BE THE RESPONSIBILITY OF THE OWNER.
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY DISPOSAL SYSTEM OR SEWERAGE PIPE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WATER LINES LESS THAN 10 FEET FROM THE DISPOSAL AREA.
- HIGH WATER ALARM SHALL BE LOCATED IN A NOTICEABLE LOCATION. THE ALARM SHALL BE A VISUAL AND AUDIBLE ALARM AND WIRED ON A SEPARATE CIRCUIT FROM THE PUMPS. ALL EXTERIOR CONTROLS AND CONNECTIONS SHALL BE ENCLOSED IN A WEATHER-PROOF HOUSING. ELECTRICAL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL ELECTRICAL AND BUILDING CODES.
- NO EXCAVATION IS PERMITTED NEAR THE DISPOSAL AREAS THAT WILL RESULT IN THE NONCOMPLIANCE OF APPLICABLE SETBACKS STATED IN THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY.
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL AREAS. CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS, SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT SUCH RUNOFF.
- THE CONTRACTOR IS RESPONSIBLE FOR STAKING AND VERIFYING THE GRADES PRIOR TO EXCAVATION. ANY DISCREPANCIES OF MORE THAN 6 INCHES SHALL BE REPORTED TO THE ENGINEER PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS WITHOUT THE WRITTEN CONSENT OF THE APPROPRIATE AUTHORITY AND THE ENGINEER.
- CONTRACTOR SHALL REPORT TO THE ENGINEER ANY ELEVATION DIFFERENCES GREATER THAN 4 FEET BETWEEN THE HIGHEST AND LOWEST TRENCH IN THE FIELD. THIS SHOULD BE CHECKED PRIOR TO INSTALLING THE LATERALS AND MANIFOLD.
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLUMBING FIXTURES ARE CONNECTED TO THE DESIGNATED SEPTIC TANK(S). LOW FLOW TOILETS (1.6 GAL), SHOWERHEADS AND FAUCETS SHALL BE USED IN THE STRUCTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY AND PROTECTION OF THE PUBLIC FROM INJURY DURING CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE FOR THE PREVENTION OF PERSONAL INJURY TO ANYONE ON OR NEAR THE DISPOSAL SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL TANKS HAVE ADEQUATE STRENGTH AND INTEGRITY TO PERFORM SATISFACTORILY AS SHOWN ON THESE PLANS.
- THE WASTEWATER FLOW TO THE SEPTIC SYSTEM SHALL NOT EXCEED THE DESIGN FLOW SHOWN ON THIS PLAN.



ASSUMED LOCATION OF WATER METER AND WATER SERVICE LINE ALIGNMENT FROM METER TO HOUSE.  
NOTE: WATER SERVICE LINE SHALL BE SLEEVED WITH SCH. 40 PVC WHEREVER IT IS 10' OR CLOSER TO PROPOSED OSSF DISPOSAL AREA LIMITS AND/OR ANY SYSTEM COMPONENT(S). EXCEEDS TAC 30 CHAPTER 290.44(e).

SLEEVE PRESSURE SUPPLY LINE WITH SCH. 40 PVC AT CHANNEL CROSSING AND EXTENDED AT LEAST 10' BEYOND EACH TOP OF CHANNEL BANKS. SLEEVE SHALL BE BURIED AT LEAST 24" BELOW EXIST. GROUND AND COMPLETELY ENCAPSULATED IN CONCRETE TO WITHIN 2' OF SLEEVE ENDS.

APPROX. NAT. CHANNEL C.L.

LOT 200  
0.62 ac.  
1,517 S.F.  
4 - BEDROOM  
SINGLE FAMILY  
RESIDENCE

INTERMITTENT  
USE R.V. (40 GPD  
MAX. ASSUMED)  
GRAVEL PAD

GRAVEL  
DWAY

ROCKY RIDGE LOOP

REVISED

9:06 am, Jul 24, 2025

1 OF 3 - PROP. #3- 32'R  
SPRINKLER (K RAIN PRO PLUS MODEL 11003 - RCW).  
MIN. COVERAGE AREA = 5,313 SF  
ACTUAL COVERAGE AREA = 5,606 SF

600 GPD AEROBIC TREATMENT PLANT WITH  
HIGH LOAD LID AND FRANKLIN  
C1-SERIES-20XC1-05P4-2W115 PUMP. THERE  
SHALL BE 18" MIN. THICK LAYER OF WASHED  
LIMESTONE GRAVEL PLACED ABOVE TANK LID  
WITH UNIT WEIGHTS NOT LESS THAN 100  
lb/ft<sup>3</sup> AND NOT GREATER THAN 110 lb/ft<sup>3</sup>.

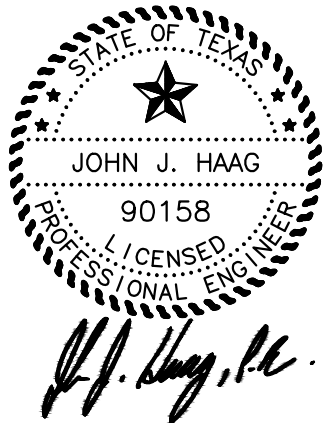
SOLAR AEROBIC SA600-768LP PUMP FLOAT SETTINGS FOR MIN. 340 GPD AND  
MIN. 113 GAL RESERVE:

PUMP OFF POSITION: 10" ABOVE TANK BOTTOM (±184.07 GAL)  
PUMP ON POSITION: 28.5" ABOVE TANK BOTTOM (±530.6 GAL)  
ALARM ON POSITION: 34.5" ABOVE TANK BOTTOM (±644.55 GAL)

±134 GAL RESERVE CAPACITY AT 41.5" ABOVE TANK BOTTOM.



1" = 30'



07/23/25

**OSSF LAYOUT**  
**LOT 200, 2345 ROCKY RIDGE LOOP**  
**ROCKY CREEK RANCH, PH. 7**  
**CANYON LAKE, TEXAS**

ADD'L. NOTES:

- SPRINKLER OPERATION SHALL BE TIMED TO DOSE BETWEEN MIDNIGHT AND 5:00 a.m.
- DESIGN DAILY WASTEWATER FLOW = 340 GPD (WATER SAVING DEVICES WERE ASSUMED FOR SEPTIC SYSTEM DESIGN).
- A BATTERY BACKUP TO THE TIMER CLOCK SHALL BE INSTALLED TO ENSURE DOSING ONLY OCCURS BETWEEN MIDNIGHT AND 5:00 a.m.
- TOPOGRAPHIC DATA SOURCE: FEMA 2011 DATA.
- PROPERTY LINE BEARINGS AND DISTANCES SOURCE: SURVEY

NOTE: OSSF IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE BUT IS  
FEMA 100 YEAR FLOODPLAIN.  
SITE EVALUATION BY JOHN J. HAAG, P.E. ON 06/11/2025

DRAWN BY: JJH

CHECKED BY: JJH

DATE: 07/23/25

JOB NO. RUT25008

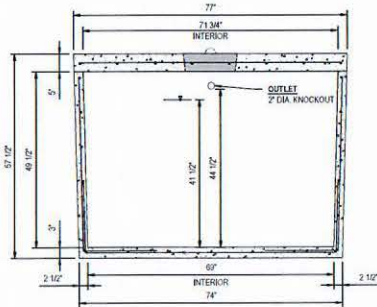
SHEET 1 OF 1

**HAAG ENGINEERING CONSULTANTS**

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

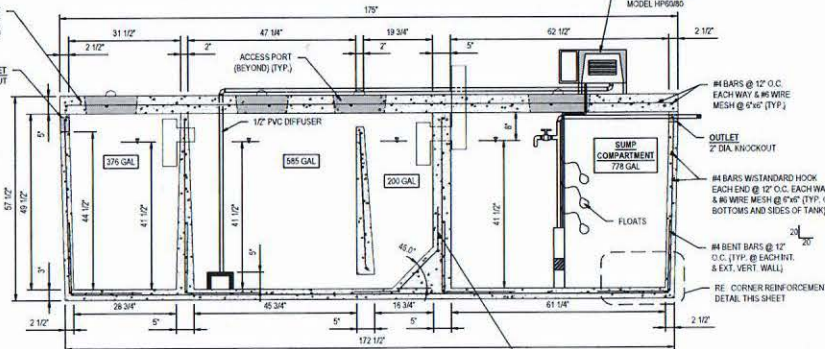
TEL: (210) 705-4268

©COPYRIGHT 2025 HAAG ENGINEERING CONSULTANTS; ALL RIGHTS RESERVED

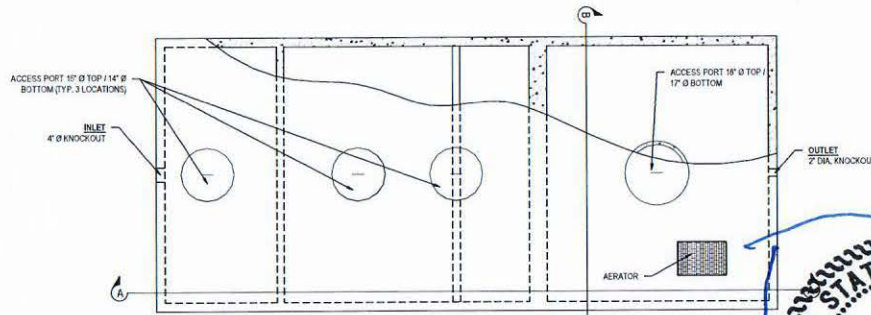


SECTION "B-B"  
SCALE 3/4" = 1'-0"

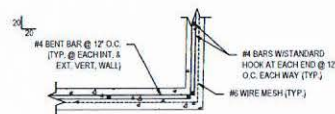
RE: "CONCRETE REINFORCEMENT AT PENETRATION DETAIL" THIS SHEET (TYP. AT EACH ACCESS PORT)



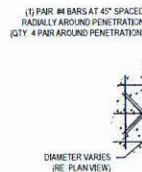
SECTION "A-A"  
SCALE 3/4" = 1'-0"



PLAN VIEW  
SCALE 3/4" = 1'-0"



CORNER REINFORCEMENT  
DETAIL  
SCALE 1 1/2" = 1'-0"



CONCRETE REINFORCEMENT  
AT ACCESS PORT DETAIL  
SCALE 1 1/2" = 1'-0"

#### GENERAL CONCRETE NOTES:

1. ALL CONCRETE SHALL CONFORM TO ASTM C94, READY MIX CONCRETE HAVING A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS WITH A MAXIMUM AGGREGATE SIZE OF 1" AND A MAXIMUM "SLUMP" OF 5". PORTLAND CEMENT SHALL BE TYPE "2" CONVEYANCE AND PLACEMENT OF ALL CONCRETE SHALL BE IN ACCORDANCE WITH ACI 315 AND 318, LATEST EDITIONS.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318, LATEST EDITION.
3. ALL CONCRETE SHALL BE PROTECTED AND MAINTAINED IN A MOISTENED CONDITION FOR A MINIMUM OF SEVEN DAYS OR TREATED WITH A CURING COMPOUND, FREE OF ALL OILS AND PARAFFIN BASE MATERIALS.
4. ALL REINFORCEMENT STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BAR AND CONFORM TO ASTM A615, GRADE 60.
5. ALL HORIZONTAL REINFORCING BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH INTERSECTIONS. ALL SPLICES SHALL HAVE A MINIMUM LAP OF 40 BAR DIAMETERS. ALL TERMINATING REBAR RUNS SHALL HAVE A FULLY DEVELOPED STANDARD HOOK AT THE TERMINATING END.
6. ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCEMENT STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315, LATEST EDITION.
7. ALL REINFORCEMENT STEEL SHALL BE TIED AT ADEQUATE INTERVALS WITH 16 GAUGE DOUBLE ANNEALED TIE WIRE.
8. ALL REINFORCEMENT BAR SPLICES SHALL BE BASIC CLASS "B" TENSION LAP SPLICES.

#### DESIGN ASSUMPTIONS PROVIDED BY SOLAR AEROBIC SYSTEMS, LLC:

1. OVERALL DIMENSIONS: 175' L x 77' W x 57.5" H
  2. CONCRETE MIX COMPRESSIVE STRENGTH: 5000 PSI
  3. STEEL REINFORCEMENT: #4 REBAR @ 12" O.C. (MAX SPACING); #6 WIRE MESH (MANCHOL'S WIRE MESH ASSIGNED)
  4. SOIL DENSITY: 100 PCF
  5. MAX BURIAL DEPTH: 6"
- OTHER ASSUMPTIONS:
1. WATER DENSITY: 62 PCF
  2. CONCRETE DENSITY: 145 PCF
  3. REBAR STRENGTH: 60 KSI (YIELDING)
  4. ALLOWABLE SOIL BEARING PRESSURE: 1500 PSF (ASSUMED)

#### SUMP COMPARTMENT VOLUME GALLONS PER INCH DEPTH

HEIGHT (in.)	VOLUME (gallons)	HEIGHT (in.)	VOLUME (gallons)
1	18.33	22	407.9
2	36.64	23	426.7
3	54.99	24	445.5
4	73.36	25	464.4
5	91.76	26	483.3
6	110.17	27	502.2
7	128.62	28	521.1
8	147.08	29	540.0
9	165.56	30	559.0
10	184.07	31	577.9
11	202.6	32	596.9
12	221.2	33	616.0
13	239.7	34	635.0
14	258.3	35	654.1
15	276.9	36	673.2
16	295.6	37	692.3
17	314.3	38	711.4
18	332.9	39	730.6
19	351.7	40	749.8
20	370.4	41	769.0
21	389.1	41.5	778.6

DESIGN: ANSG  
CHECKED: ANSG  
DRAWN: CAG  
CHECKED: VA  
ENGINEER: NEJ  
DATE: JUL 27/18

**PRINCIPLE**  
ENGINEERING SERVICES LLC

MODEL SA600-768T-  
SEWER TREATMENT  
SYSTEM

SOLAR AEROBIC SYSTEMS, LLC  
6754 HWY 90 EAST  
LAKE CHARLES, LA 70615

NATHAN E. JORDAN  
TX PE #102944

FOR APPROVAL  
(NOT FOR CONSTRUCTION OR PERMITTING)

SHEET  
1

# C1 SERIES

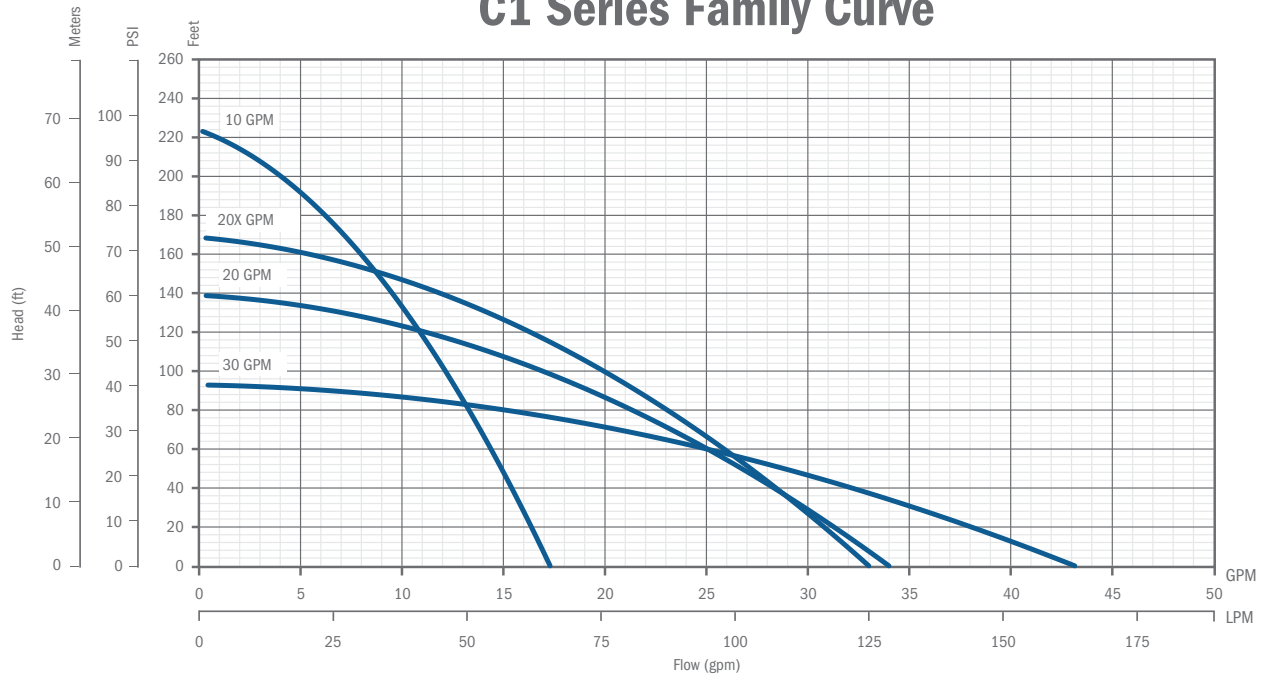
## CISTERN PUMPS

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

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



# C1 Series Family Curve



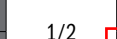
## FEATURES

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

## APPLICATIONS

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

## ORDERING INFORMATION

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

Note: All units have 10 foot long SJ00W leads.

UTC-SW1  
2555338EL

**WARRANTY DEED WITH VENDOR'S LIEN**

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

THE STATE OF TEXAS                   §  
  §                   KNOW ALL MEN BY THESE PRESENTS:  
COUNTY OF COMAL                 §

THAT THE UNDERSIGNED, **Joseph A. Cunningham aka Joseph Alto Cunningham, Sr., a single person**, hereinafter called "Grantor," whether one or more, for and in consideration of the sum of TEN DOLLARS (\$10.00) and other valuable consideration to the undersigned in hand paid by the Grantee herein named, the receipt of which is hereby acknowledged, and the further consideration of the execution and delivery by the Grantee of that one certain promissory note of even date herewith in the principal sum of **Three Hundred Fifty Six Thousand One Hundred Sixty Six and 00/100 Dollars (\$356,166.00)**, payable to the order of **Click n' Close, Inc.**, hereinafter called "Lender," as therein specified, providing for acceleration of maturity and for attorney's fees, the payment of which note is secured by the vendor's lien herein retained, and is additionally secured by a deed of trust of even date herewith to **Ruth W. Garner, Trustee**, has GRANTED, SOLD AND CONVEYED, and by these presents does GRANT, SELL and CONVEY unto **Robert Tyler Savage and Hannah Richelle Savage** husband and wife, whose mailing address is PO Box 2044, Canyon Lake, TX 78133 herein referred to as "Grantee," whether one or more, the real property described as follows:



**Lot 200, ROCKY CREEK RANCH, PHASE 7, according to the map or plat recorded in Volume 10, Page 28, Map and Plat records, Comal County, Texas.**

This conveyance, however, is made and accepted subject to any and all validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; any and all restrictions, covenants, conditions and easements, if any, relating to the hereinabove described property, but only to the extent they are still in effect, whether or not shown of record in the hereinabove mentioned County and State.

TO HAVE AND TO HOLD the above described premises, together with all and singular the rights and appurtenances thereto in anywise belonging, unto the said Grantee, Grantee's heirs, executors, administrators, successors and/or assigns forever; and Grantor does hereby bind Grantor, Grantor's heirs, executors, administrators, successors and/or assigns to WARRANT AND FOREVER DEFEND all and singular the said premises unto the said Grantee, Grantee's heirs, executors, administrators, successors and/or assigns, against every person whomsoever claiming or to claim the same or any part thereof.

But it is expressly agreed that the Vendor's Lien, as well as Superior Title in and to the above described premises, is retained against the above described property, premises and improvements until the above described note and all interest thereon are fully paid according to the face, tenor, effect and reading thereof, when this Deed shall become absolute. Lender, at the instance and request of the Grantee herein, having advanced and paid in cash to the Grantor herein that portion of the purchase price of the herein described property as is evidenced by the hereinabove described Note, the Vendor's Lien, together with

the Superior Title to said property, is retained herein for the benefit of said Lender and the same are hereby TRANSFERRED AND ASSIGNED to said Lender, its successors and assigns.

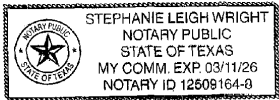
Current ad valorem taxes on the property having been prorated, the payment thereof is assumed by Grantee.

EXECUTED to be effective May 15, 2025.

Joseph A. Cunningham Sr.  
Joseph A. Cunningham, aka Joseph Alto Cunningham, Sr.

THE STATE OF TEXAS       §  
  §  
COUNTY OF COMAL       §

The foregoing instrument was acknowledged before me on the 15th day of May, 2025, by Joseph A. Cunningham aka Joseph Alto Cunningham, Sr., a single person.



[Signature]  
NOTARY PUBLIC, STATE OF TEXAS

PRINTED NAME OF NOTARY

MY COMMISSION EXPIRES:  
\_\_\_\_\_

PREPARED IN THE OFFICE OF:  
MCNEESE LAW GROUP, PLLC  
201 South Broadway  
Brownwood, TX 76801

Filed and Recorded  
Official Public Records  
Bobbie Koepp, County Clerk  
Comal County, Texas  
05/20/2025 10:10:42 AM  
TRACY 2 Pages(s)  
202506014843

 Bobbie Koepp

RECEIVED

By Kathy Griffin at 1:58 pm, Jun 30, 2025



COMAL COUNTY  
ENGINEER'S OFFICE

## ON-SITE SEWAGE FACILITY APPLICATION

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

Date 06/13/2025

Permit Number 118797

### 1. APPLICANT / AGENT INFORMATION

Owner Name Robert and Hannah Savage Agent Name John J. Haag, P.E.  
Mailing Address PO Box 2044 Agent Address 15831 Secret Trails  
City, State, Zip Canyon Lake, Texas 78133 City, State, Zip San Antonio, Tx. 78247  
Phone # 614-638-3926 Phone # 210-705-4268  
Email ty.savage@edgehomefinance.com Email jhaag@satx.rr.com

### 2. LOCATION

Subdivision Name Rocky Creek Ranch Unit 7 Lot 200 Block       
Survey Name / Abstract Number      Acreage 0.62  
Address 2345 Rocky Ridge Loop City Canyon Lake State Tx. Zip 78133

### 3. TYPE OF DEVELOPMENT

☒ Single Family Residential

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

Number of Bedrooms 4

Indicate Sq Ft of Living Area 1517

☐ Non-Single Family Residential

(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: \$ 220000 (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

### 4. SIGNATURE OF OWNER

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. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.
- 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.

6/19/25



**COMAL COUNTY**  
ENGINEER'S OFFICE

195 DAVID JONAS DR  
NEW BRAUNFELS, TX 78132  
(830) 608-2090  
[WWW.CCEO.ORG](http://WWW.CCEO.ORG)

**VOID**

Planning Materials & Site Evaluation as Required Completed By John J. Haag, P.E.

System Description Proprietary aerobic treatment with surface spray disposal

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

Tank Size(s) (Gallons) SolarAir SA600-768LP (600 gpd) Absorption/Application Area (Sq Ft) 5313 min

Gallons Per Day (As Per TCEQ Table III) 340

(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.)

Is there at least one acre per single family dwelling as per 285.40(c)(1)? ☐ Yes ☒ No

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.

*John J. Haag, P.E.*  
Signature of Designer

06/30/2025

Date

# VOID

## WASTEWATER TREATMENT INSTALLATION/REPAIRING AGREEMENT

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

Permit/License Number \_\_\_\_\_  
Customer Robert Savage  
Site Address 2345 Rocky Ridge Loop  
City Canyon Lake Zip 78133  
Mailing Address PO Box 2044, Canyon Lake, Tx. 78133  
County Comal Map # \_\_\_\_\_  
Phone 614-638-3926  
Email ty.savage@edgehomefinance.com

**I. General:** This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between Robert Savage (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 License to Construct and ends on \_\_\_\_\_ for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may 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:

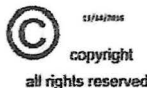
- Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: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

RC

Customer's Initials

*RS*



Contractor's Initials

**Aerobic With Surface Disposal**

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

SITE EVALUATION PERFORMED ON:

11-Jun-25

by

John J. Haag, P.E.

Date: 06/30/25

APPLICANT: Robert Savage

MAILING ADDRESS:

CITY, ST, ZIP

CONTRACTOR

SITE ADDRESS: 2345 Rocky Ridge Loop

CITY, ST, ZIP Canyon Lake, Tx 78133

LEGAL DESCRIPTION: Lot 200, Rocky Creek Ranch, Ph. 7

WATER SOURCE: Public

**VOID**

SOIL TYPE 3 AT SLOPE OF <15% BEDROOMS 4 Sq. Ft. 1517  
Normally Required 375 GPD 340 GPD

WATER SAVING DEVICES? Y

APPLICATION RATE = 0.064

GALLONS PER SQ. FT. PER DAY

USAGE FLOW = 340

GALLONS PER DAY WHICH IS 80% OF 375 GPD

SEPTIC TANK VOLUME = 1,000

GALLONS TWO COMPARTMENT TANK REQUIRED

RESERVE CAPACITY = 113

(8 HOURS USAGE AFTER HIGH LEVEL ALARM)

AREA REQUIRED = 5,313

SQ. FT. OF ABSORPTION AREA

OR 0.12 ACRES

**WITHOUT WATER SAVING DEVICES**

5,859

SQ. FT. OF ABSORPTION AREA

OR 0.13 ACRES

Use a 600

GPD Treatment Plant Model

B-550 by NuWater

Nozzle # PSI

(K-Rain ProPlus Low Angle Sprinkler Nozzle)

3 40

PSI WITH A 32 FOOT RADIUS AND 3.1

GPM/ SPRINKLER WITH A TOTAL OF 6.2 GPM FOR THE SYSTEM

**AREA COVERED BY PROPOSED SPRINKLER HEADS**

LINEAR FEET OF DISTRIBUTION = 152.0 FT. OF

1

INCH SCH-40 PURPLE PIPE

150 C (HAZEN-WILLIAMS)

SPACE BETWEEN SPRINKLER HEADS = Varies

FT

3

SPRINKLERS

FOR A DOSE TIME OF 55 MINUTES

WITH ANGLE OF DISTRIBUTION = 360

AREA PER SPRINKLER = 3,217 sf

OF ABSORPTION AREA

SPRINKLERS	LENGTH OF PIPE	Dist. Angle	Flow GPM	Q GPM	Hf ft of head	Area
3	12 FT	180	1.55	6.200	0.34	1608.5
2	25 FT	180	1.55	4.650	0.42	1608.5
1	115 FT	360	3.1	3.100	0.90	3217.0
0			0	0.000	0.00	0.0
0			0	0.000	0.00	0.0
0			0	0.000	0.00	0.0
0			0	0.000	0.00	0.0
0			0	0.000	0.00	0.0
0			0	0.000	0.00	0.0
0			0	0.000	0.00	0.0
0			0	0.000	0.00	0.0

SUM= 152 feet of pipe

6.200

1.66 ft of head

6434.0 sf Provided

fittings factor 1.20

5606.0 sf Actual

1.99 ft of head

Hf for Dist Line 4.3113485 ft of head

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

40.00 psi divided by 0.4335 = 92.27 ft of head

elevation difference -1.00 ft of head

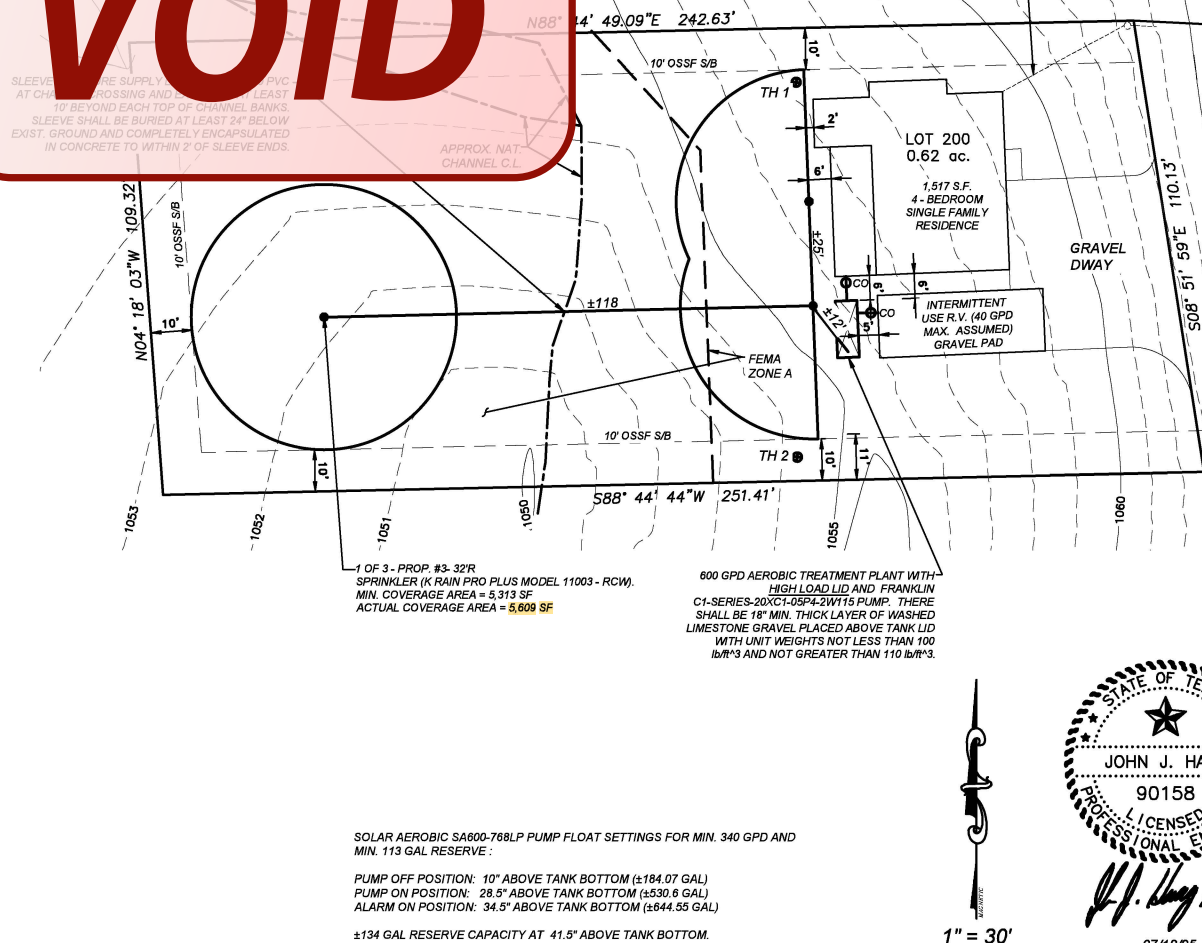
head required for sprinkling 97.58 ft of head

pressure required for sprinkling 42.30 psi

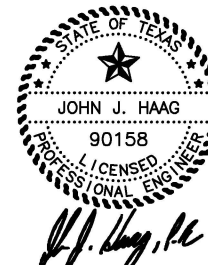
0. NO VEHICULAR TRAFFIC IS ALLOWED ON ANY PORTION OF THE DISPOSAL SYSTEM, UNLESS THE DESIGN SPECIFIES OTHERWISE.
1. PIPE ALIGNMENT TO THE DISPOSAL BEDS MAY BE ALTERED AS REQUIRED. ANY CHANGE FROM THE PLANS MUST BE APPROVED BY THE ENGINEER AND THE CONTRACTOR SHALL BE RESPONSIBLE THEREFOR.
2. CONTRACTOR SHALL PROTECT TREES WHICH ARE NOT IN THE EXCAVATED CONSTRUCTION AREAS. CONTRACTOR SHALL MINIMIZE ROOT DAMAGE AND REASONABLY ADHERE TO THE DESIGN.
3. CONTRACTOR SHALL PROVIDE A MINIMUM OF 1" PER FOOT OF FALL FROM THE BUILDING TO THE SEPTIC TANK.
4. NO AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED OVER THE DISPOSAL AREAS. ANY WATERING IN THESE AREAS SHALL BE DONE BY HAND AND ONLY TO TAKE CARE OF AREAS OF DROUGHT OR GRASSES ARE USED.
5. ALL CONSTRUCTION SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ANY APPLICABLE LOCAL BUILDING AND SAFETY CODES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS SYSTEM.
7. SPRAY APPLICATION AREAS SHALL BE COVERED WITH PERENNIAL GRASS. TO TAKE CARE OF AREAS OF DROUGHT OR GRASSES ARE USED WHICH HAVE DORMANT PERENNIAL STEPS SHOULD BE TAKEN TO PROVIDE SOME TYPE OF VEGETATION ON THE BEDS DURING THESE PERIODS.
8. 1.1. RECOMMENDED COVERAGE:
  - 8.1.1. BERMUUDA: 1 LB/1000 S.F.
  - 8.1.2. RYE: 1 LB/1000 S.F.
  - 8.1.3. OR ST. AUGUSTINE SOD.
9. SPRAY APPLICATION AREAS MUST BE MOVED AT REGULAR INTERVALS. FAILURE TO PROPERLY MAINTAIN VEGETATIVE COVER MAY RESULT IN EROSION OF AREAS AND DAMAGE TO THE DISPOSAL SYSTEM.
10. ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
11. A MINIMUM OF 10 FEET OF WATER LINE SHALL BE A MINIMUM OF 10 FEET FROM ANY DISPOSAL SYSTEM OR SEWERAGE PIPE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WATER LINES LESS THAN 10 FEET FROM THE DISPOSAL AREA.
12. A HIGH WATER ALARM SHALL BE LOCATED IN A NOTICEABLE LOCATION. THE ALARM SHALL BE A VISUAL AND AUDIBLE ALARM AND WIRED ON A SEPARATE CIRCUIT FROM THE PUMPS. ALL EXTERIOR CONTROLS AND CONNECTIONS SHALL BE ENCLOSED IN A WEATHER-PROOF HOUSING. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL ELECTRICAL AND BUILDING CODES.
13. NO EXCAVATION IS PERMITTED NEAR THE DISPOSAL AREAS THAT WILL RESULT IN THE NONCOMPLIANCE OF THE APPLICABLE SETBACKS STATED IN THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY.
14. A GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL AREAS. CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ.
15. CONTRACTOR SHALL VERIFY THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
16. STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS, SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT FLOW.
17. THE CONTRACTOR IS RESPONSIBLE FOR STAKING AND VERIFYING THE GRADES PRIOR TO EXCAVATION. ANY DISCREPANCIES OF MORE THAN 6 INCHES SHALL BE REPORTED TO THE ENGINEER PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DISCREPANCIES IN WRITTEN CONSENT OF THE APPROPRIATE AUTHORITY AND THE ENGINEER.
18. CONTRACTOR SHALL REPORT TO THE ENGINEER ANY ELEVATION DIFFERENCES GREATER THAN 4 FEET BETWEEN THE HIGHEST AND LOWEST POINTS IN THE AREA. THIS SHOULD BE CHECKED PRIOR TO INSTALLING THE LATERALS AND MAIN LINES.
19. THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, OR OTHER WORK, MAY CAUSE SYSTEM FAILURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OWNER'S ALTERATIONS AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLUMBING FIXTURES ARE CONNECTED TO THE DESIGNATED SEPTIC TANK(S). LOW FLOW TOILETS, SHOWERHEADS AND FAUCETS SHALL BE USED IN THE STRUCTURES.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY AND PROTECTION OF THE PUBLIC FROM INJURY DURING CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONAL INJURY FROM CONSTRUCTION OR NEAR THE DISPOSAL AREAS.
22. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL TANKS HAVE ADEQUATE STRENGTH AND INTEGRITY TO PERFORM SATISFACTORILY AS SHOWN ON THESE PLANS.
23. THE DESIGN FLOW TO THE SEPTIC SYSTEM SHALL NOT EXCEED THE DESIGN FLOW SHOWN ON THIS PLAN.

# VOID

ASSUMED LOCATION OF WATER METER AND WATER SERVICE LINE ALIGNMENT FROM METER TO HOUSE.  
NOTE: WATER SERVICE LINE SHALL BE SLEEVED WITH SCH. 40 PVC WHEREVER IT IS 10' OR CLOSER TO PROPOSED OSSF DISPOSAL AREA LIMITS AND/OR ANY SYSTEM COMPONENT(S). EXCEEDS TAC 30 CHAPTER 290.44(e).



# ROCKY RIDGE LOOP



07/18/25

**OSSF LAYOUT**  
**LOT 200, 2345 ROCKY RIDGE LOOP**  
**ROCKY CREEK RANCH, PH. 7**  
**CANYON LAKE, TEXAS**

1. SPRINKLER OPERATION SHALL BE TIMED TO DOSE BETWEEN MIDNIGHT AND 5:00 a.m.
2. DESIGN DAILY WASTEWATER FLOW = 340 GPD (WATER SAVING DEVICES WERE ASSUMED FOR SEPTIC SYSTEM DESIGN).
3. A BATTERY BACKUP TO THE TIMER CLOCK SHALL BE INSTALLED TO ENSURE DOSING ONLY OCCURS BETWEEN MIDNIGHT AND 5:00 a.m.
4. TOPOGRAPHIC DATA SOURCE: FEMA 2011 DATA.
5. PROPERTY LINE BEARINGS AND DISTANCES SOURCE: SURVEY

NOTE: OSSF IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE BUT IS  
FEMA 100 YEAR FLOODPLAIN.  
SITE EVALUATION BY JOHN J. HAAG, P.E. ON 06/11/2025

DRAWN BY:	JJH
CHECKED BY:	JJH
DATE:	07/18/2
JOB NO.	RUT25008

**SHEET 1 OF 1**

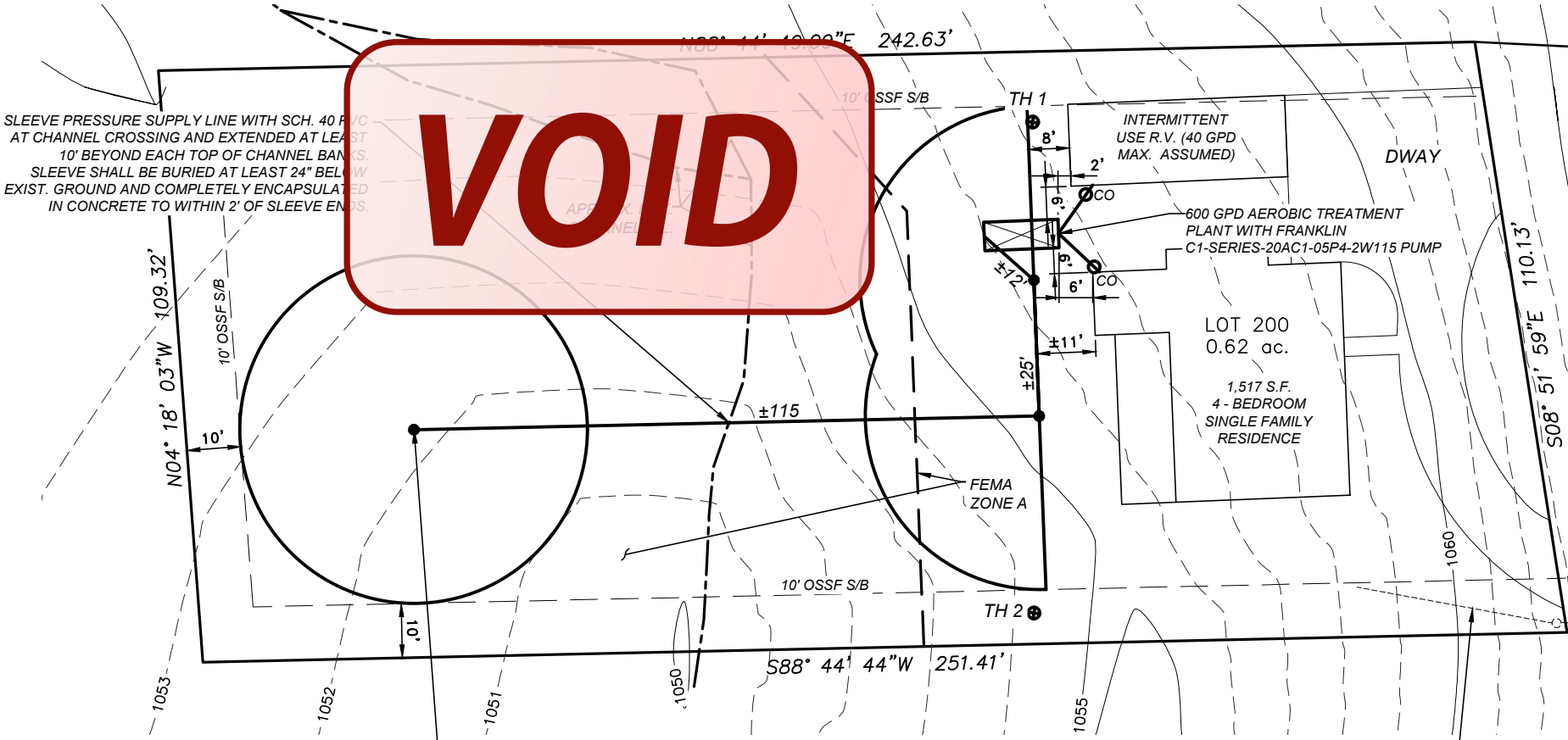
**HAAG ENGINEERING CONSULTANTS**

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

**TEL: (210) 705-4268**

GENERAL NOTES:

- NO VEHICULAR TRAFFIC IS ALLOWED ON ANY PORTION OF THE DISPOSAL SYSTEM, UNLESS THE DESIGN SPECIFIES OTHERWISE.
- PIPE ALIGNMENT TO THE DISPOSAL BEDS MAY BE ALTERED AS REQUIRED. ANY CHANGE FROM THE PLANS MUST BE APPROVED BY THE ENGINEER AND THE APPROPRIATE GOVERNMENTAL AGENCY(IES).
- CONTRACTOR SHALL PROTECT TREES WHICH ARE NOT IN THE EXCAVATED CONSTRUCTION AREAS. CONTRACTOR SHALL MINIMIZE ROOT DAMAGE AND REASONABLY ADHERE TO THE DESIGN.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING A MINIMUM OF 1/4" PER FOOT OF FALL FROM THE BUILDING TO THE SEPTIC TANK.
- NO AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED OVER THE DISPOSAL AREAS. ANY WATERING IN THESE AREAS SHALL BE DONE BY HAND AND ONLY WHEN REQUIRED TO MAINTAIN GRASS COVER.
- ALL CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ANY APPLICABLE LOCAL BUILDING AND SAFETY CODES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS SYSTEM.
- SPRAY APPLICATION AREAS SHALL BE COVERED WITH PERENNIAL GRASSES TO TAKE ADVANTAGE OF TRANSPIRATION. IF GRASSES ARE USED WHICH HAVE DORMANT PERIODS, STEPS SHOULD BE TAKEN TO PROVIDE SOME TYPE OF VEGETATION ON THE BEDS DURING THESE PERIODS.
- RECOMMENDED COVERAGE:
  - BERMUDA: 1 LB/1000 S.F.
  - RYE: 10 LB/1000 S.F.
  - OR ST. AUGUSTINE SOD.
- SPRAY APPLICATION AREAS MUST BE MOWED AT REGULAR INTERVALS. FAILURE TO PROPERLY MAINTAIN VEGETATIVE COVER MAY RESULT IN SYSTEM FAILURE AND SHALL BE THE RESPONSIBILITY OF THE OWNER.
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY DISPOSAL SYSTEM OR SEWERAGE PIPE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WATER LINES LESS THAN 10 FEET FROM THE DISPOSAL AREA.
- HIGH WATER ALARM SHALL BE LOCATED IN A NOTICEABLE LOCATION. THE ALARM SHALL BE A VISUAL AND AUDIBLE ALARM AND WIRED ON A SEPARATE CIRCUIT FROM THE PUMPS. ALL EXTERIOR CONTROLS AND CONNECTIONS SHALL BE ENCLOSED IN A WEATHER-PROOF HOUSING. ELECTRICAL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL ELECTRICAL AND BUILDING CODES.
- NO EXCAVATION IS PERMITTED NEAR THE DISPOSAL AREAS THAT WILL RESULT IN THE NONCOMPLIANCE OF APPLICABLE SETBACKS STATED IN THE RULES AND REGULATIONS OF THE APPROPRIATE AUTHORITY.
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL AREAS. CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS, SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT SUCH RUNOFF.
- THE CONTRACTOR IS RESPONSIBLE FOR STAKING AND VERIFYING THE GRADES PRIOR TO EXCAVATION. ANY DISCREPANCIES OF MORE THAN 6 INCHES SHALL BE REPORTED TO THE ENGINEER PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS WITHOUT THE WRITTEN CONSENT OF THE APPROPRIATE AUTHORITY AND THE ENGINEER.
- CONTRACTOR SHALL REPORT TO THE ENGINEER ANY ELEVATION DIFFERENCES GREATER THAN 4 FEET BETWEEN THE HIGHEST AND LOWEST TRENCH IN THE FIELD. THIS SHOULD BE CHECKED PRIOR TO INSTALLING THE LATERALS AND MANIFOLD.
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLUMBING FIXTURES ARE CONNECTED TO THE DESIGNATED SEPTIC TANK(S). LOW FLOW TOILETS (1.6 GAL), SHOWERHEADS AND FAUCETS SHALL BE USED IN THE STRUCTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY AND PROTECTION OF THE PUBLIC FROM INJURY DURING CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE FOR THE PREVENTION OF PERSONAL INJURY TO ANYONE ON OR NEAR THE DISPOSAL SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL TANKS HAVE ADEQUATE STRENGTH AND INTEGRITY TO PERFORM SATISFACTORILY AS SHOWN ON THESE PLANS.
- THE WASTEWATER FLOW TO THE SEPTIC SYSTEM SHALL NOT EXCEED THE DESIGN FLOW SHOWN ON THIS PLAN.



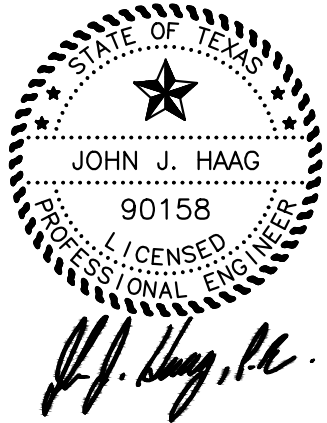
1 OF 3 - PROP. #3- 32'R  
SPRINKLER (K RAIN PRO PLUS MODEL 11003 - RCW).  
MIN. COVERAGE AREA = 5,313 SF  
ACTUAL COVERAGE AREA = 5,605 SF

ASSUMED LOCATION OF WATER METER AND WATER SERVICE  
LINE ALIGNMENT FROM METER TO HOUSE. NOTE: WATER  
SERVICE LINE SHALL BE SLEEVED WITH SCH. 40 PVC  
WHEREVER IT IS 10' OR CLOSER TO PROPOSED OSSF  
DISPOSAL AREA LIMITS AND/OR ANY SYSTEM COMPONENT(S).  
EXCEEDS TAC 30 CHAPTER 290.44(e).

SOLAR AEROBIC SA600-768LP PUMP FLOAT SETTINGS FOR MIN. 340 GPD AND  
MIN. 113 GAL RESERVE :

PUMP OFF POSITION: 10" ABOVE TANK BOTTOM (±184.07 GAL)  
PUMP ON POSITION: 28.5" ABOVE TANK BOTTOM (±530.6 GAL)  
ALARM ON POSITION: 34.5" ABOVE TANK BOTTOM (±644.55 GAL)

±134 GAL RESERVE CAPACITY AT 41.5" ABOVE TANK BOTTOM.



1" = 30'

06/30/25

**OSSF LAYOUT**  
**LOT 200, 2345 ROCKY RIDGE LOOP**  
**ROCKY CREEK RANCH, PH. 7**  
**CANYON LAKE, TEXAS**

ADD'L. NOTES:

- SPRINKLER OPERATION SHALL BE TIMED TO DOSE BETWEEN MIDNIGHT AND 5:00 a.m.
- DESIGN DAILY WASTEWATER FLOW = 340 GPD (WATER SAVING DEVICES WERE ASSUMED FOR SEPTIC SYSTEM DESIGN).
- A BATTERY BACKUP TO THE TIMER CLOCK SHALL BE INSTALLED TO ENSURE DOSING ONLY OCCURS BETWEEN MIDNIGHT AND 5:00 a.m.
- TOPOGRAPHIC DATA SOURCE: FEMA 2011 DATA.
- PROPERTY LINE BEARINGS AND DISTANCES SOURCE: SURVEY

NOTE: OSSF IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE BUT IS  
FEMA 100 YEAR FLOODPLAIN.  
SITE EVALUATION BY JOHN J. HAAG, P.E. ON 06/11/2025

DRAWN BY: JJH

CHECKED BY: JJH

DATE: 06/30/25

JOB NO. RUT25008

SHEET 1 OF 1

**HAAG ENGINEERING CONSULTANTS**

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

©COPYRIGHT 2025 HAAG ENGINEERING CONSULTANTS; ALL RIGHTS RESERVED

TEL: (210) 705-4268

---

**Re: Permit # 118797**

---

**From** Gallegos,Efrain <gallee@co.comal.tx.us>

**Date** Wed 7/23/2025 9:41 AM

**To** jhaag@satx.rr.com <jhaag@satx.rr.com>; ty.savage@edgehomefinance.com  
<ty.savage@edgehomefinance.com>

**Cc** Ritzen,Brenda <rabbjr@co.comal.tx.us>; 'Oscar Hernandez' <oscar@havenbrooktx.com>; 'Chad Rutten'  
<chad@havenbrooktx.com>; 'Lars Nielsen' <lars@havenbrooktx.com>; 'Carrie Nielsen'  
<carrie@havenbrooktx.com>

Revise actual coverage area sq footage on design and re submit.



Efrain Z Gallegos  
Environmental Health Inspector  
DR: OS0039964  
O: 830-608-2090 Ext 3167  
C: 830-708-4304  
E: gallee@co.comal.tx.us

---

**From:** jhaag@satx.rr.com <jhaag@satx.rr.com>

**Sent:** Tuesday, July 22, 2025 12:44 PM

**To:** Gallegos,Efrain <gallee@co.comal.tx.us>; ty.savage@edgehomefinance.com  
<ty.savage@edgehomefinance.com>

**Cc:** Ritzen,Brenda <rabbjr@co.comal.tx.us>; 'Oscar Hernandez' <oscar@havenbrooktx.com>; 'Chad Rutten'  
<chad@havenbrooktx.com>; 'Lars Nielsen' <lars@havenbrooktx.com>; 'Carrie Nielsen'  
<carrie@havenbrooktx.com>

**Subject:** RE: Permit # 118797

**This email originated from outside of the organization.**

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

- Comal IT

---

Hi Efrain:

Please find revisions per your comments below.

1. Maintenance contract was changed to "License to Operate" by me with my initials next to the revision;

2. ATU is not mentioned anywhere on the Site Evaluation Form but I did change the ATU specification on the calculation sheet;
3. I added the actual disposal area to the min. already noted on Application page #2 with my initials to the revision;
4. I added "+ intermittent Use RV" to Application page #1 and with my initials next to the revision.

Please let me know if you need anything additional.

Thanks,

John J. Haag, P.E.  
Haag Engineering Consultants, LLC (Firm No.: F-5789)  
San Antonio, Texas 78247  
Tel: 210-705-4268

*Confidentiality Note: This eMail note and attached document(s) accompanying the eMail message contain information belonging to Haag Engineering Consultants, Inc. which is confidential and/or legally privileged. The information is intended only for the use of the individual(s) or entity named above and any disclosure to third parties may violate the Engineer-client privilege or Company restrictions on the use of confidential material. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance of the contents of this telecopied information is strictly prohibited. If you have received this electronic transmission in error, please immediately notify us and destroy the eMail and attachment(s).*

---

**From:** Gallegos,Efrain <gallee@co.comal.tx.us>  
**Sent:** Tuesday, July 22, 2025 9:06 AM  
**To:** jhaag@satx.rr.com; ty.savage@edgehomefinance.com  
**Cc:** Ritzen,Brenda <rabbjr@co.comal.tx.us>  
**Subject:** Permit # 118797

Re: Robert & Hannah Savage  
2345 Rocky Ridge Loop  
Canyon Lake, Tx 78133

Application for permit for authorization to construct an on-site sewage facility (OSSF)

Applicant / Agent,

The following information is needed before I can continue processing the referenced permit submittal:

1. Maintenance contract changed to license to operate from license to construct.
2. Update ATU model on site eval to match other forms.
3. Actual Sq Ft does not match on design from system description page.
4. Add intermittent use from RV to application.

Thank you.



# COMAL COUNTY

---

ENGINEER'S OFFICE

Efrain Z Gallegos  
Environmental Health Inspector  
DR: OS0039964  
O: 830-608-2090 Ext 3167  
C: 830-708-4304  
E: [gallee@co.comal.tx.us](mailto:gallee@co.comal.tx.us)

**From:** [Gallegos,Efrain](#)  
**To:** [jhaag@satx.rr.com](mailto:jhaag@satx.rr.com); [ty.savage@edgehomefinance.com](mailto:ty.savage@edgehomefinance.com)  
**Cc:** [Ritzen,Brenda](#)  
**Subject:** Permit # 118797  
**Date:** Tuesday, July 22, 2025 9:05:37 AM  
**Attachments:** [Outlook-4no2ax4l.png](#)

---

Re: Robert & Hannah Savage  
2345 Rocky Ridge Loop  
Canyon Lake, Tx 78133

Application for permit for authorization to construct an on-site sewage facility (OSSF)

Applicant / Agent,

The following information is needed before I can continue processing the referenced permit submittal:

1. Maintenance contract changed to license to operate from license to construct.
2. Update ATU model on site eval to match other forms.
3. Actual Sq Ft does not match on design from system description page.
4. Add intermittent use from RV to application.

Thank you.



---

Efrain Z Gallegos  
Environmental Health Inspector  
DR: OS0039964  
O: 830-608-2090 Ext 3167  
C: 830-708-4304  
E: [gallee@co.comal.tx.us](mailto:gallee@co.comal.tx.us)

**RECEIVED**

By Kathy Griffin at 1:58 pm, Jun 30, 2025



## COMAL COUNTY

ENGINEER'S OFFICE

## OSSF DEVELOPMENT APPLICATION CHECKLIST

*Staff will complete shaded items*

--	--

*Date Received*

*Initials*

118797
--------

*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.
- ☒ Required Permit Fee - See Attached Fee Schedule
- ☒ 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

**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

\_\_\_ COMPLETE APPLICATION

Check No. \_\_\_\_\_ Receipt No. \_\_\_\_\_

INCOMPLETE APPLICATION

\_\_\_\_ (Missing Items Circled, Application Refused)