



# COMAL COUNTY

ENGINEER'S OFFICE

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

Issued This Date: 11/20/2019 Permit Number: 109339

Location Description: 1004 CIMARRON  
SPRING BRANCH, TX 78070

Subdivision: Lake of the Hills Estates, Inc.

Unit:

Lot: 169

Block: 22

Acreage:

Type of System: Aerobic  
Drip Irrigation

Issued to: Callan Homes Company, Inc.

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

OS0034792

ENVIRONMENTAL HEALTH INSPECTOR

ENVIRONMENTAL HEALTH COORDINATOR

OS 0025599

## Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Varhol OSSF Installer #: 050031132  
 1st Inspection Date: 10-15-19 2nd Inspection Date: \_\_\_\_\_ 3rd Inspection Date: 11-20-19  
 Inspector Name: Connor Inspector Name: \_\_\_\_\_ Inspector Name: B. Olvera  
 Permit#: 109339 Address: Lake of the Hills 1004 Cameron

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)		/		11-20-19
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	/	285.91(10) 285.30(b)(4) 285.31(d)		/		
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	/	285.32(a)(1)		/		
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	/	285.32(a)(3)		/		
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add: C/O Every 100' &/or 90 degree bends)	/	285.32(a)(5)		/		
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(B) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(A) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(I)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

Tank set - level      no leaks      operational      cover all  
 11-20-19 BMO  
 covered

**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)(iii) 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) <del>285.32(b)(1)(G)</del> 285.34(b)		✓		11-20-09
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	✓			✓		11-20-09
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	✓		<i>Inuvator 8550</i>	✓		✓
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		<del>285.33(a)(3)</del> 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)		✓		11-20-06
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
23	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
24	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
25	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed	✓			✓		✓
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
28	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
29	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
30	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturer's 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)				



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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)		/		11-20-19
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 Property 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						
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39	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried	/			/		/

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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)		/		11-20-19
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	/		per plan	/		/
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: Vanhol OSSF Installer #: 050031132

1st Inspection Date: 10-15-19 2nd Inspection Date: \_\_\_\_\_ 3rd Inspection Date: \_\_\_\_\_

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

Permit#: 109339 Address: Lake of the Hills 1004 Commanon

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5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	/	285.32(a)(5)		/		
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9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	✓	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		✓		
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15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	✓		<i>Munster B550</i>	✓		
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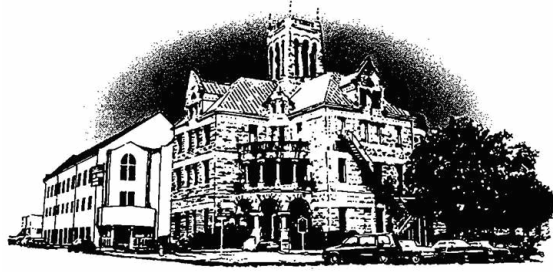


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33	<p>AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.</p>	/	285.32(c)(1)		/		
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35	<p>AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.</p>						
36	<p>PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials &amp; construction</p> <p>PUMP TANK Sampling Port Provided in the Treated Effluent Line</p> <p>PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required</p> <p>PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump</p>						
37	<p>PUMP TANK Inspection/Clean Out Port &amp; Risers Provided</p> <p>PUMP TANK Secondary restraint system provided</p> <p>PUMP TANK Riser permanently fastened to lid or cast into tank</p> <p>PUMP TANK Riser cap protected against unauthorized intrusions</p>						
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**Comal County Environmental Health  
OSSF Inspection Sheet**

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42	APPLICATION AREA Area Installed	/		<i>per plan</i>	/		
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: 109339  
Issued This Date: 07/02/2019  
This permit is hereby given to: Callan Homes Company, Inc.

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

1004 CIMARRON  
SPRING BRANCH, TX 78070

Subdivision: Lake of the Hills Estates, Inc.

Unit:

Lot: 169

Block: 22

Acreage:

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic  
Drip Irrigation

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

Call (830) 608-2090 to schedule inspections.



OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded

<i>items Date Received</i>	<i>initials</i>

<i>Permit Number</i>

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

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

RECEIVED  
JUN 28 2019  
COUNTY ENGINEER'S OFFICE

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

06/28/19

Date

___ COMPLETE APPLICATION	
Check No. _____	Receipt No. _____

___ INCOMPLETE APPLICATION
(Missing Items Circled, Application Refused)



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

Date June 17, 2019

Permit # 109339

Owner Name CALLAN HOMES COMPANY INC
Mailing Address 2241 JOHNSON ROAD
City, State, Zip CANYON LAKE TEXAS 78133
Phone# 956-792-6845
Email sophie@callanhomesinc.com

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

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

Method: [ ] Mail [X] Email

Subdivision Name LAKE OF THE HILLS ESTATES, INC Unit/Phase/Section Lot 169 Block 22

Acreage/Legal

Street Name/Address 1004 CIMARRON City SPRING BRANCH Zip 78070

Type of Development:

[X] Single Family Residential

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

Number of Bedrooms 3

Indicate Sq Ft of Living Area 1250

RECEIVED

JUN 28 2019

COUNTY ENGINEER

[ ] 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: \$ 185,000 (Structure Only)

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

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

Source of Water [X] Public [ ] Private Well

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

By signing this application, I certify that:

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

Signature of Owner [Handwritten Signature]

Date 6.21.19



#109339

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

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

REVISED

8:28 am, Oct 14, 2019

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

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) NUWATER B-550-PC Absorption/Application Area (Sq Ft) 1876

Gallons Per Day (As Per TCEQ Table III) 240

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? [ ] Yes [X] 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 [X] 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? [X] Yes [ ] No

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

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

Is this property within an incorporated city? [ ] Yes [X] No

If yes, indicate the city: \_\_\_\_\_



FIRM #2585

By signing this application, I certify that:

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

Signature of Designer (Handwritten Signature)

Date June 27, 2019



3  
YCS

**AFFIDAVIT**

**THE COUNTY OF COMAL  
STATE OF TEXAS**



201906022275 06/28/2019 01:49:36 PM 1/1

**CERTIFICATION OF OSSF REQUIRING MAINTENANCE**

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

**I**

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

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**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):

COUNTY ENGINEER

UNIT/PHASE/SECTION 22 BLOCK 169 LOT LAKE OF THE HILLS ESTATES, INC. SUBDIVISION

IF NOT IN SUBDIVISION: \_\_\_\_\_ ACREAGE \_\_\_\_\_ SURVEY \_\_\_\_\_

The property is owned by (insert owner's full name): CALLAN HOMES COMPANY, INC.

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 21 DAY OF JUNE, 2019

[Signature]  
Owner(s) signature(s)

SOPHIE CAMPBELL -MANAGER  
Owner (s) Printed name (s)

SOPHIE CAMPBELL  
JUNE, 2019

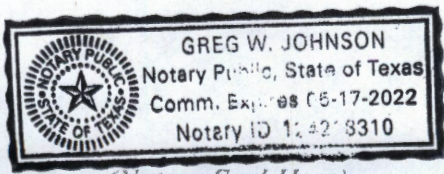
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 21 DAY OF

[Signature]  
Notary Public Signature

THIS APPLIES ONLY

**Filed and Recorded**  
**Official Public Records**  
**Bobbie Koepf, County Clerk**  
**Comal County, Texas**  
**06/28/2019 01:49:36 PM**  
**TERRI 1 Page(s)**  
**201906022275**

**Bobbie Koepf**



(Notary Seal Here)



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WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT COUNTY ENGINEER

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 CALLAN HOMES COMPANY, INC  
Site Address 1004 CIMARRON  
City SPRING BRANCH, TX Zip 78070  
Mailing Address 2241 JOHNSON ROAD, CANYON LAKE, TX 78133  
County COMAL Map # 284 E8  
Phone 956-792-6845  
Email sophie@callanhomesinc.com

2 YEAR CONTRACT  
2 YEAR WARRANTY ON PARTS AND LABOR

Subd/Legal: LAKE OF THE HILLS ESTATES, INC., BLK22, LOT 169

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

**II. Effective Date:**

This Agreement commences on LTO and ends on \_\_\_\_\_ for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) day::s 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 with in two (2) business days after said notification.
- d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).
- e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.
- f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

  
Customer's Initials



BS  
Contractor's Initials



**V. Disinfection:**

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

**VI. Electronic Monitoring:**

Electronic Monitoring is not included in this Agreement.

**VII. Performance of Agreement:**

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

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

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

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

**VIII. Customer's Responsibilities:**

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

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

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

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

d. Notify Contractor immediately of 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:**

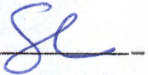
Contractor is hereby granted an easement to the OSSF for the purpose of performing services described herein. Contractor may enter the property during Contractor's normal business hours and/or other reasonable hours without prior notice to Customer to perform the Services and/or repairs described herein. 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 Customers responsibility to keep lids exposed and accessible at all times.

**X. Limit of Liability:**

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

**XI. Indemnification:**

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



Customer's Initials



BS  
Contractor's Initials

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**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.

Brent S. [Signature]  
Block Creek Aerobic Services, LLC,  
Contractor  
MC# 0000042 and MC#0000002

[Signature] 6/21/19  
Customer Signature Date

[Signature]  
Customer's Initials



BS  
Contractor's Initials

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

Date Soil Survey Performed: June 19, 2019

Site Location: LAKE of the HILLS, INC., BLOCK 22, LOT 169

Proposed Excavation Depth: N/A

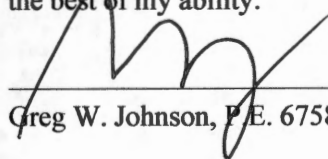
**Requirements:**

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil boring or dug pits must be shown on the site drawing. For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

SOIL BORING NUMBER		SURFACE EVALUATION				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	III	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 8"	BROWN RECEIVED JUN 28 2019 COUNTY ENGINEER
1						
2						
3						
4						
5						

SOIL BORING NUMBER		SURFACE EVALUATION				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	SAME		AS		ABOVE	
1						
2						
3						
4						
5						

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

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

06/19/19  
\_\_\_\_\_  
Date



**OSSF SOIL EVALUATION REPORT INFORMATION**

Date: June 20, 2019

**Applicant Information:**

Name: CALLAN HOMES COMPANY, INC.  
Address: 2241 JOHNSON ROAD  
City: CANYON LAKE State: TEXAS  
Zip Code: 78133 Phone: (956) 792-6845

**Site Evaluator Information:**

Name: Greg W. Johnson, P.E., R.S. S.E. 11561  
Address: 170 Hollow Oak  
City: New Braunfels State: Texas  
Zip Code: 78132 Phone & Fax (830)905-2778

**Property Location:**

Lot 169 Unit \_\_\_ Blk 22 Subd. LAKE of the HILLS, INC.  
Street Address: 1004 CIMARRON  
City: SPRING BRANCH Zip Code: 78070  
Additional Info.: \_\_\_\_\_

**Installer Information:**

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_  
Zip Code: \_\_\_\_\_ Phone \_\_\_\_\_

**Topography:** Slope within proposed disposal area: 4 to 6 %  
Presence of 100 yr. Flood Zone: YES \_\_\_ NO X  
Existing or proposed water well in nearby area. YES \_\_\_ NO X  
Presence of adjacent ponds, streams, water impoundments YES \_\_\_ NO X  
Presence of upper water shed YES \_\_\_ NO X  
Organized sewage service available to lot YES \_\_\_ NO X

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

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

06/20/19  
DATE



FIRM #2585

**DRIP TUBING SYSTEM**  
DESIGNED FOR:  
CALLAN HOMES COMPANY, INC.  
2241 JOHNSON ROAD  
CANYON LAKE, TX 78133

**SITE DESCRIPTION:**

Located in Lake of the Hills Estates, Inc, Block 22, Lot 169, at 1004 Cimarron, this septic will serve a three bedroom residence (1250 sf) in area with Type-III soil as described in the Soil Evaluation Report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

**PROPOSED SYSTEM:**

A 3 inch SCH-40 pipe discharges from the residence into a Nu-Water B550PC 600gpd aerobic treatment plant containing a 353 gal. pretreatment chamber and a 768 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP FPS submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a ten minute run time. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal Disc filter then through a 1" SCH-40 manifold to a 1876 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system by cycling a 1" ball valve. Solids caught in the disk filter are flushed each cycle back to the trash tank. Agricultural Products, Inc. (Model #VBK-1) 1" PVC vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to trenching the site must be scarified and built up with 4" of Type II or III soil. Drip tubing will be laid and the entire field area will be capped with 6" of sandy loam (Type 2 - **NOT SAND**). The field area will be sodded with a hearty grass such as Bermuda, St. Augustine, etc. prior to system startup. **Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

**DESIGN SPECIFICATIONS:**

Q = 240 gallons per day - 3 bedroom residence (Table III)  
Pretreatment tank size: 353 Gal  
Plant Size: Nu-Water B550PC 600 gpd (TCEQ Approved)



Pump tank size: 768 Gal  
 Reserve capacity after High Level: 80 gal. (>1/3 day usage)  
 Application Rate: Ra = 0.2 gal/sf  
 Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf (Actual 1876 sf.).  
 Total linear feet drip tubing: 938' *Netifim Bioline* drip tubing .61 GPH  
 Pump requirement: 469 emitters @ 0.61 gph @ 30 psi = 4.768 gpm  
 Pump: 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent.  
 Dosing volume: 50-70 gal.  
 Pump Tank Calculations: 768 Gal (14.5 gal/in.)  
     Volume below working level = 15" = 219 gal  
     Working level = 240 gal = 17"  
     Reserve Requirement = 1/3 day = 80 gal. = 6"

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

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

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

$$\text{MSV} = 1.5 \text{ gpm} \times 3 = 4.5 \text{ gpm MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

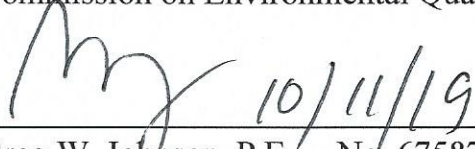
$$\text{MSV} = 2(3.14159((1.049/12) \uparrow 2) / 4) * 7.48 * 60$$

$$\text{MSV} = 5.4 \text{ GPM}$$

### PIPE AND FITTINGS:

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

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

 10/11/19  
 \_\_\_\_\_  
 Greg W. Johnson, P.E. No. 67587, F#2585  
 170 Hollow Oak  
 New Braunfels, Texas 78132  
 830/905-2778





**REVISED**

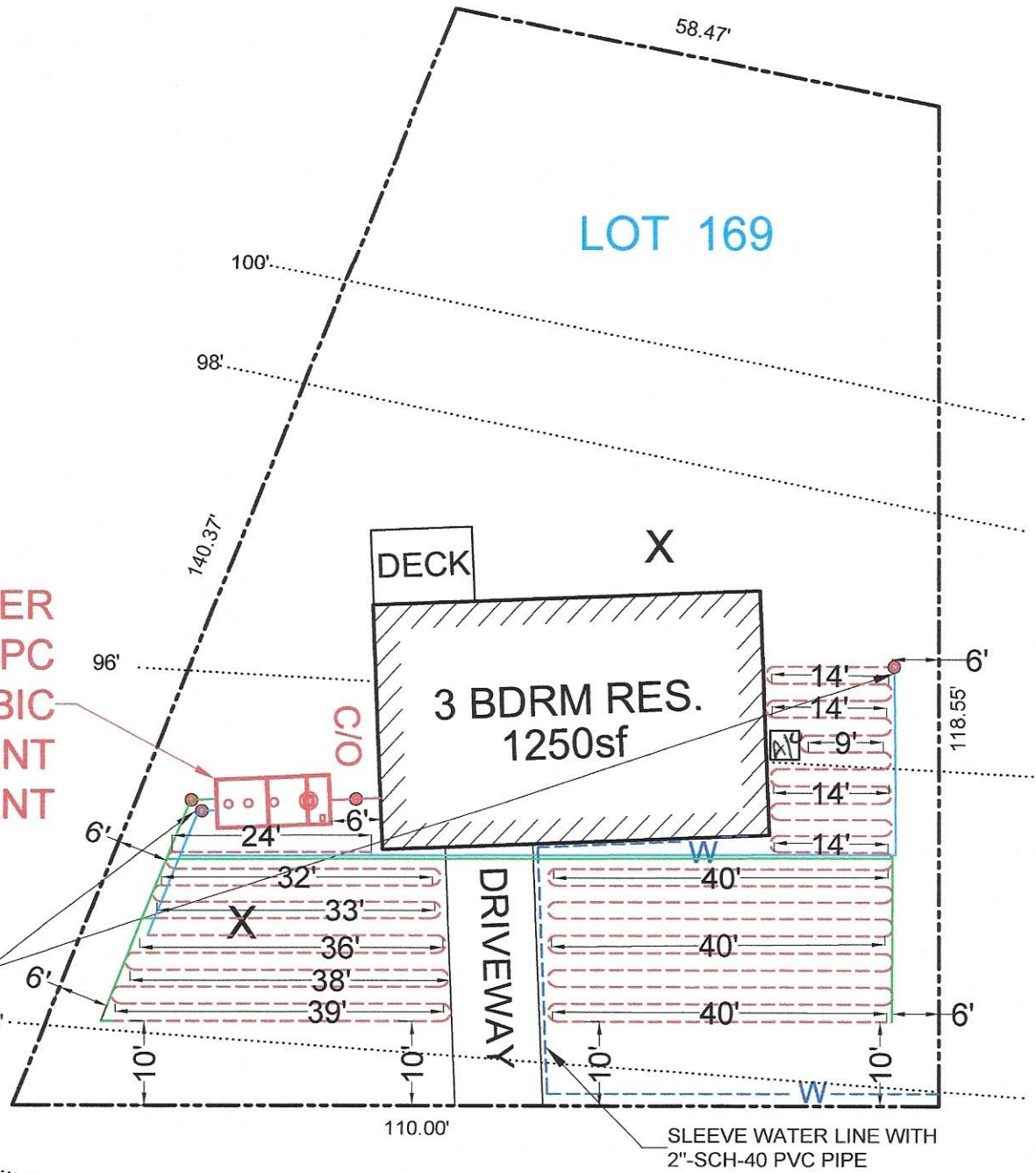
8:28 am, Oct 14, 2019

INSTALL 1876sf OF FIELD USING 938' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

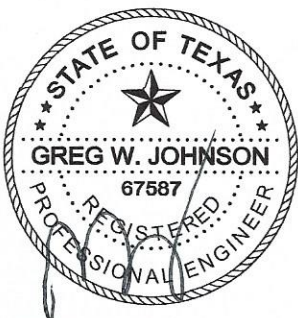
\*USE TWO WAY CLEANOUT  
\*\*USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

**NUWATER  
B 550 PC  
AEROBIC  
TREATMENT  
PLANT**



**CIMARRON**



OWNER: CALLAN HOMES COMPANY, INC.		DRAWN BY: EJS III		
STREET ADDRESS: 1004 CIMARRON				
LEGAL DESC: LAKE of the HILLS ESTATES, INC.	UNIT/SECTION/PHASE:	BLOCK: 22	LOT: 169	
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=20'	DATE: 6/20/2019	REVISED: 10/11/19	

**TANK NOTES:**

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

Tightlines to the tank shall be SCH-40 PVC.

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

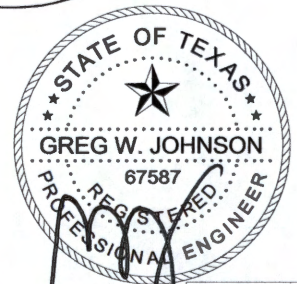
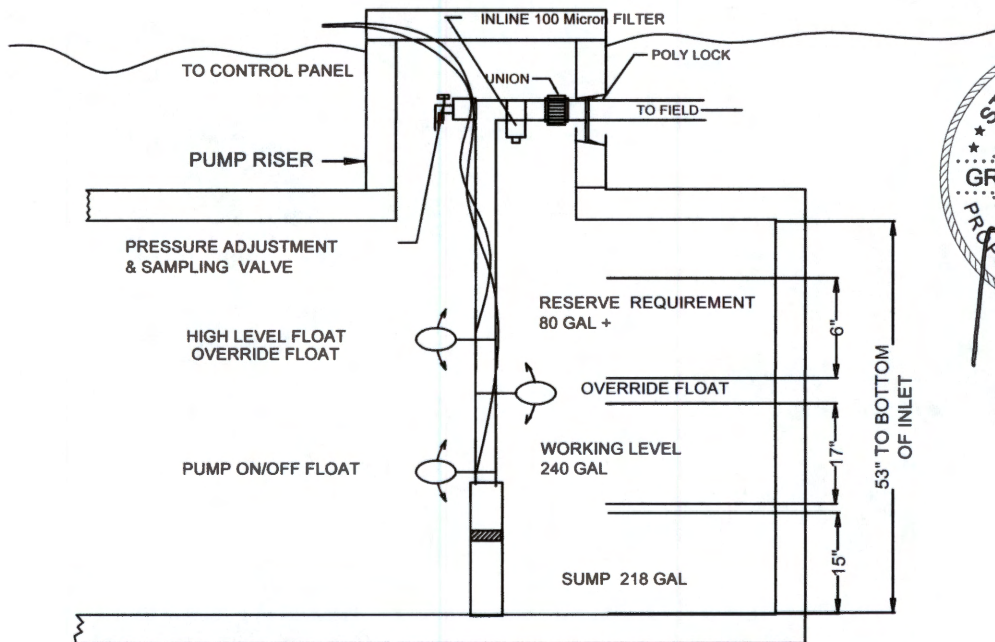
A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

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



F-2585

06/20/19

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

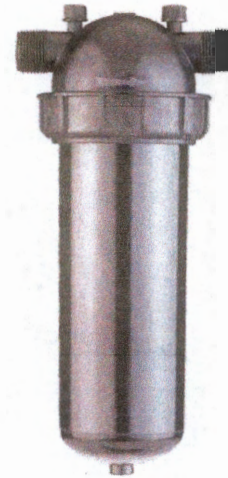


# Arkal 1" Super Filter

Catalog No. 1102 0 \_ \_ \_

## Features

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



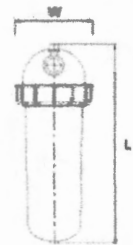
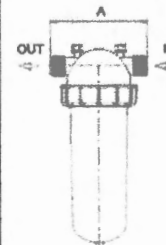
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## Technical Data

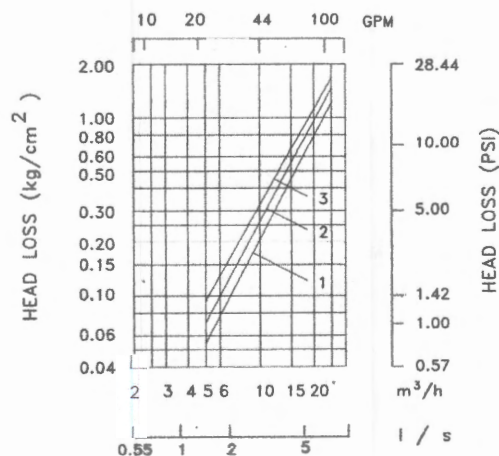
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m <sup>3</sup> /h (1.7 l/sec)	35 gpm
General filtration area	500 cm <sup>2</sup>	77.5 in <sup>2</sup>
Filtration volume	600 cm <sup>3</sup>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



## Filtration Grades

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

## Head Loss Chart

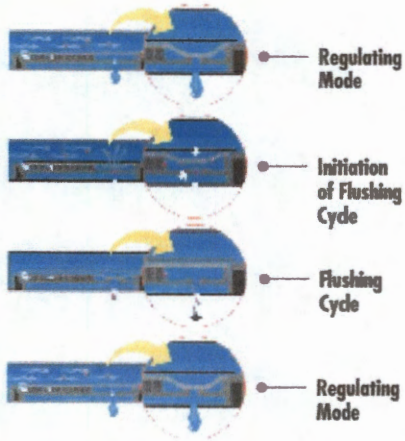






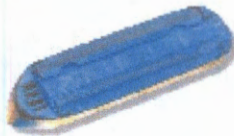
# Bioline® Dripperline

## Pressure Compensating Dripperline for Wastewater



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

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



### Product Advantages

#### The Proven Performer

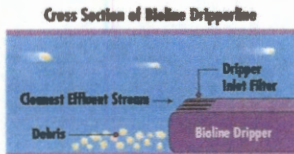
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

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

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

#### Long-Term Reliability

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



#### Root Safe

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



### Applications

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

### Specifications

Wall thickness (mil): 45\*

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

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

Recommended filtration: 120 mesh

Inside diameter: .570\*

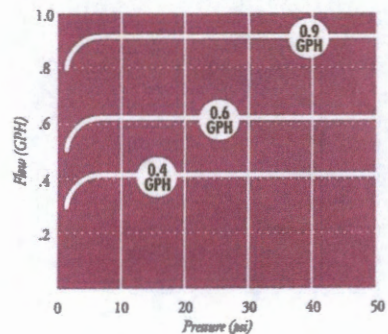
Color: Purple tubing indicates non-potable source

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

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### BIOLINE Flow Rate vs. Pressure



**NETAFIM USA**  
5470 E. Home Ave. • Fresno, CA 93727  
888.638.2346 • 559.453.6800  
FAX 800.695.4753  
[www.netafimusa.com](http://www.netafimusa.com)

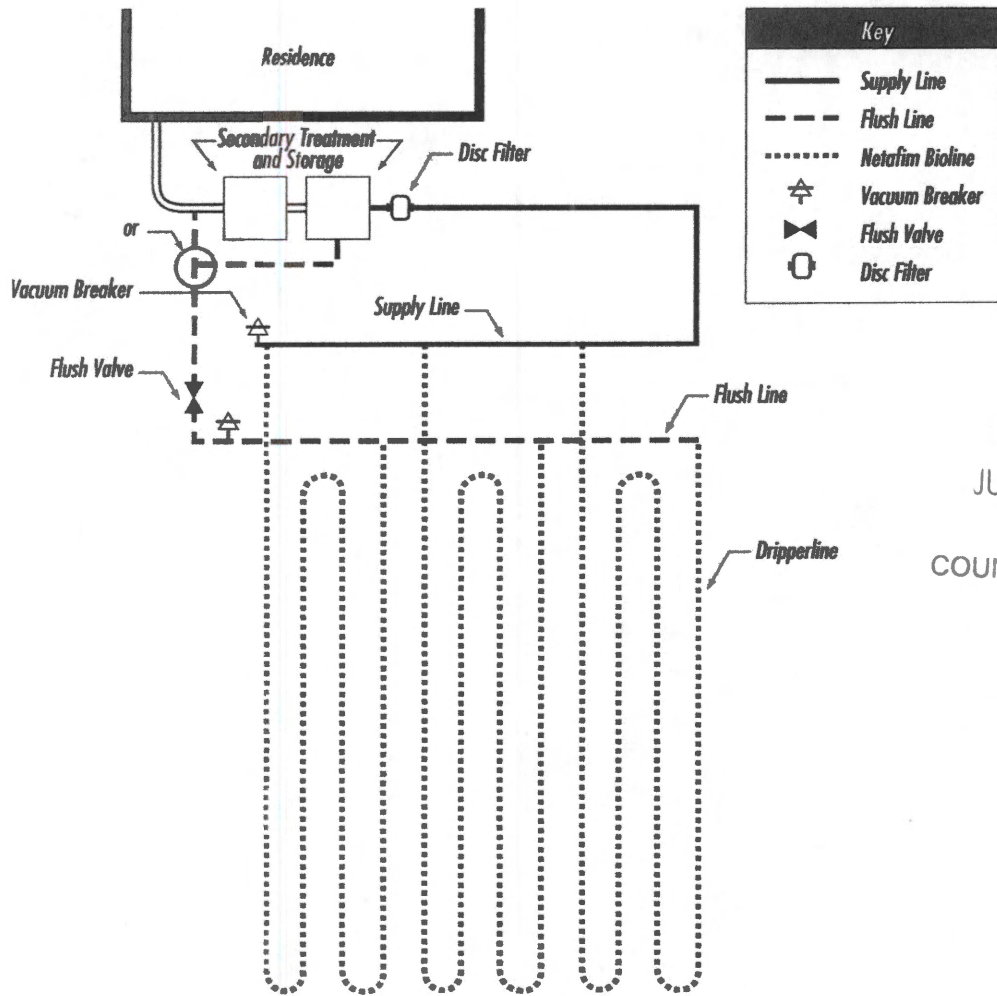
# NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

## SAMPLE DESIGNS

### SINGLE TRENCH LAYOUT

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

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

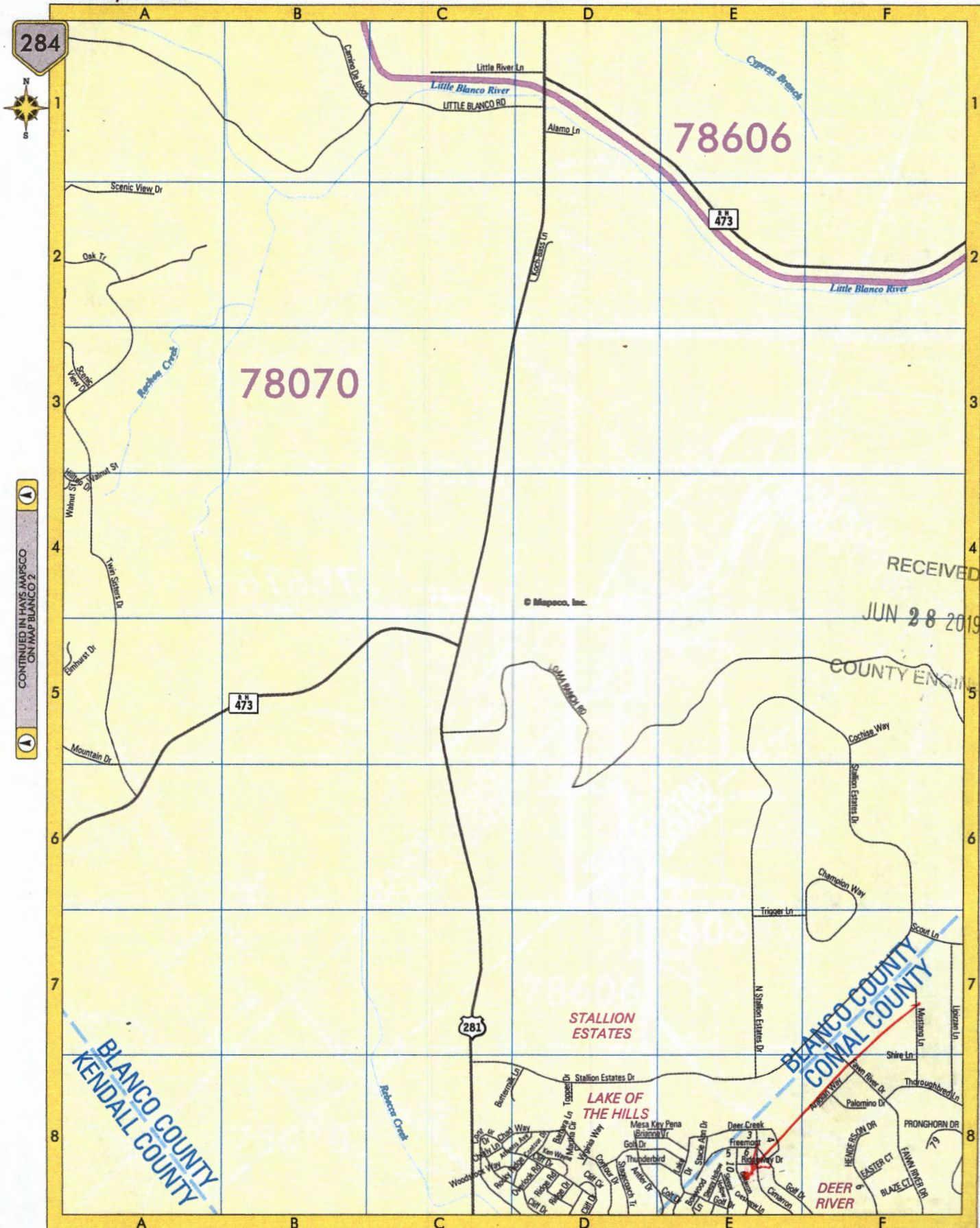


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SCALE IN MILES  
0 1/8 1/4 3/8 1/2

SCALE IN FEET  
0 1000 2000 3000

Blanco County, Texas



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

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

VOID

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

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) NUWATER B-550-PC Absorption/Application Area (Sq Ft) 2000

Gallons Per Day (As Per TCEQ Table III) 240

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? [ ] Yes [X] No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

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

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

JUN 28 2019

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 complies with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed design has been approved by the appropriate regional office.)

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VOID

Is the property located over the Edwards Contributing Zone? [X] Yes [ ] No

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

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

Is this property within an incorporated city? [ ] Yes [X] No

If yes, indicate the city:



FIRM #2585

By signing this application, I certify that:

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

Signature of Designer

Date June 27, 2019



**VOID** G SYSTEM

DESIGNED FOR:

CALLAN HOMES COMPANY, INC.  
2241 JOHNSON ROAD  
CANYON LAKE, TX 78133

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**SITE DESCRIPTION:**

Located in Lake of the Hills Estates, Inc, Block 22, Lot 169, at 1004 Cimarron, this septic will serve a three bedroom residence (1250 sf) in area with Type-III soil as described in the Soil Evaluation Report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

**PROPOSED SYSTEM:**

A 3 inch SCH-40 pipe discharges from the residence into a Nu-Water B550PC 600gpd aerobic treatment plant containing a 353 gal. pretreatment chamber and a 768 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP FPS submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a ten minute run time. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disk filter then through a 1" SCH-40 manifold to a 2000 sf. drip tubing field, with **VOID** ne drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system by cycling a 1" ball valve. Solids caught in the disk filter are flushed each cycle back to the trash tank. Agricultural Products, Inc. (Model #VBK-1) 1" PVC vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to trenching the site must be scarified and built up with 4" of Type II or III soil. Drip tubing will be laid and the entire field area will be capped with 6" of sandy loam (Type 2 - **NOT SAND**). The field area will be sodded with a hearty grass such as Bermuda, St. Augustine, etc. prior to system startup. **Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

**DESIGN SPECIFICATIONS:**

Q = 240 gallons per day - 3 bedroom residence (Table III)  
Pretreatment tank size: 353 Gal  
Plant Size: Nu-Water B550PC 600 gpd (TCEQ Approved)

**VOID**

Pump tank size: 768 Gal  
 Reserve capacity after High Level: 80 gal. (>1/3 day usage)  
 Application Rate: Ra = 0.2 gal/sf  
 Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf (Actual 2000 sf.)  
 Total linear feet drip tubing: 1000' *Netifim Bioline* drip tubing .61 GPH  
 Pump requirement: 500 emitters @ 0.61 gph @ 30 psi = 5.0833 gpm  
 Pump: 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent.  
 Dosing volume: 50-70 gal.  
 Pump Tank Calculations: 768 Gal (14.5 gal/in.)  
     Volume below working level = 15" = 219 gal  
     Working level = 240 gal = 17"  
     Reserve Requirement = 1/3 day = 80 gal. = 6"

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MINIMUM SCOUR VELOCITY (MSV) > 2 FPS  
 IN DRIP TUBING W/ NOM. DIA. 0.55" ID  
 MSV = 2 FPS  $(\frac{\pi d^2}{4} * 7.48 \text{ gal/cf} * 60 \text{ sec/min})$   
 MSV = 2  $(\frac{3.14159((0.55/12)^2)/4} * 7.48 * 60)$   
 MSV = 1.5 gpm MIN FLOW RATE

**VOID**

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

**PIPE AND FITTINGS:**

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

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

*Greg W. Johnson* 06/20/19

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





INSTALL 2000sf OF FIELD USING 1000' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

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

X= TEST HOLE

**VOID**

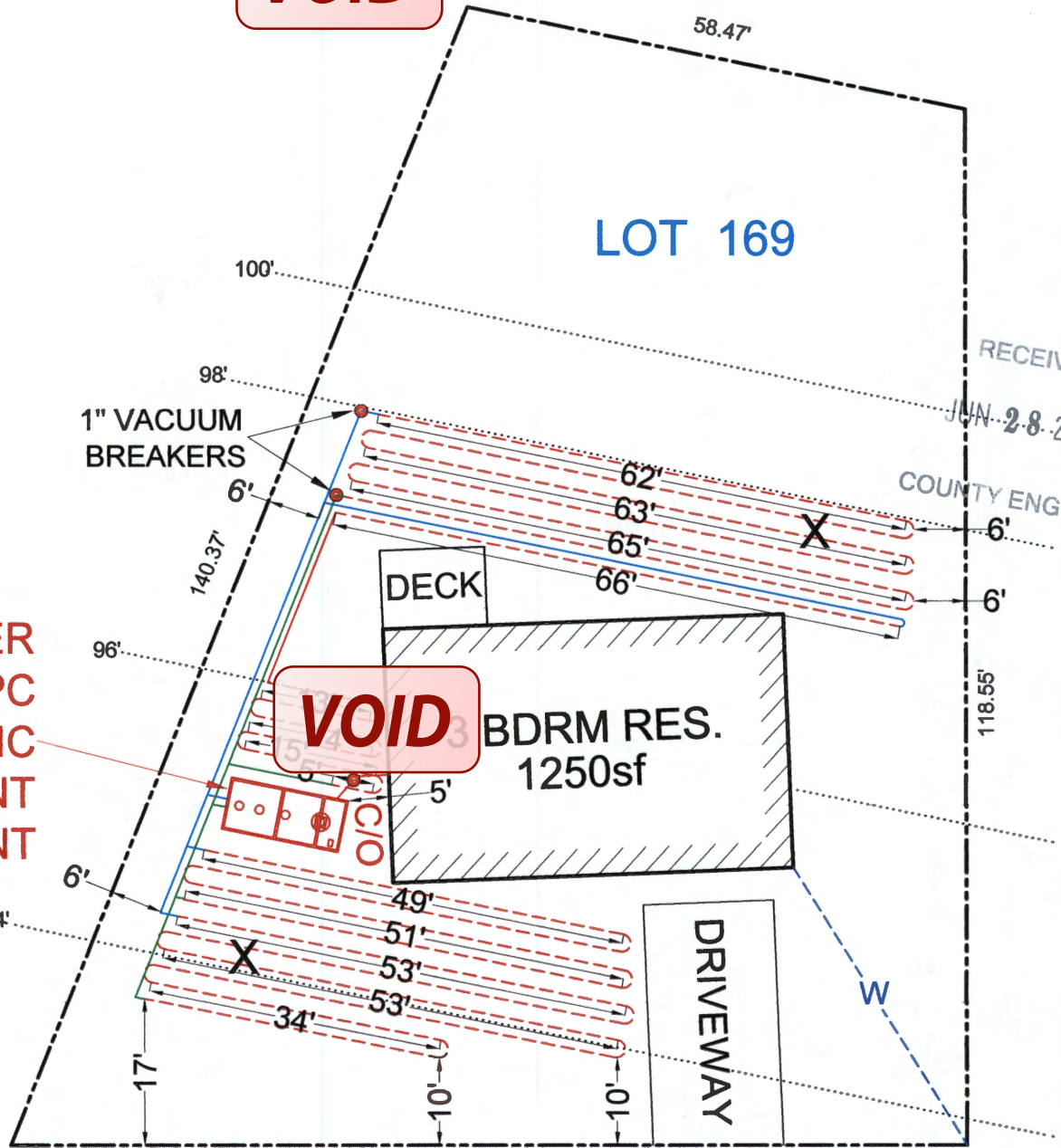
**LOT 169**

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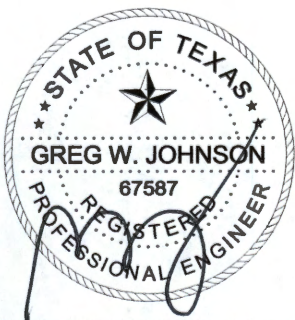
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**NUWATER  
 B 550 PC  
 AEROBIC  
 TREATMENT  
 PLANT**



**CIMARRON**



OWNER: CALLAN HOMES COMPANY, INC.		DRAWN BY: EJS III	
STREET ADDRESS: 1004 CIMARRON			
LEGAL DESC: LAKE of the HILLS ESTATES, INC.	UNIT/SECTION/PHASE:	BLOCK: 22	LOT: 169
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=20'	DATE: 6/20/2019	REVISED:



JCS



201906013219 04/18/2019 03:23:02 PM 1/2

**General Warranty Deed**

**Date:** April 15, 2019

**Grantor:** James L. Asher and Rose M. Asher

**Grantor's Mailing Address:**

9349 LETO ROAD, HOUSTON, TX 77080-7428

**Grantee:** Callan Homes Company, Inc.

**Grantee's Mailing Address:**

2241 Johnson Road, Canyon Lake, Texas 78133

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**Consideration:**

Cash and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.

**Property (including any improvements):**

Lot 169, Block 22, of Lake of the Hills Estates, Inc., a subdivision in the County of Comal, State of Texas, according to a map or plat of said subdivision recorded in Vol. 4, at Pages 70-71, of the Map and Plat Records of 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 2019, which Grantee assumes and agrees to pay, but not subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantor assumes.

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 2019, which Grantee assumes and agrees to pay, but not subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantor assumes.

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.

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

This instrument was prepared based on information furnished by the parties, and no independent title search has been made.

[Signature]  
James L. Asher

Rose M. Asher  
Rose M. Asher

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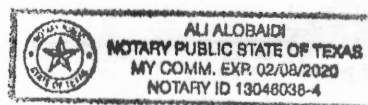
STATE OF TEXAS )  
COUNTY OF Harris )

This instrument was acknowledged before me on April 15<sup>th</sup>, 2019, by James L. Asher and Rose M. Asher.

[Signature] Ali Alobaidi  
Notary Public, State of Texas  
My commission expires: 02/08/2020

PREPARED IN THE OFFICE OF:

DWAIN W BLASCHKE  
P.O. Box 1744  
Canyon Lake, TX 78133  
Tel: (830) 964-4442  
Fax: (830) 964-4426



Filed and Recorded  
Official Public Records  
Bobbie Koepf, County Clerk  
Comal County, Texas  
04/18/2019 03:23:02 PM  
TERRI 2 Page(s)  
201906013219

[Signature] Bobbie Koepf

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

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

To: Home Owner  
1004 Cimarron  
Spring Branch, TX 78070

Printed: 3/6/2020  
Site: 1004 Cimarron  
Spring Branch, TX 78070

Permit #: **109339**

Agency: Comal County

County: Comal

Sub: Lake of the Hills Estates

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic Without Chlorine System S/N: 25031

Disposal: Drip Emitters

Customer ID: 6817

Contract Dates: 11/20/2019 - 11/20/2021

Scheduled Date: 3/20/2020

Inspection 1 of 6

Installed: 9/6/2019

Warranty End: 9/6/2021

Aerator S/N: 2997

GPS Coordinates - Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"

Visit Date: 3/6/2020

Time In: 109pm

Out: 136pm

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

**Sludge Levels**

For Tank 1: 12"

For Tank 2: 0"

For Tank 3: 0"

CFM: 2.4

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**

Service Completed

- 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. - Scum in pretreatment is 0". Cleaned drip filter. Set pressure gauge to 22psi backside. Please fill out customer information sheet.

Insp ID #: 90491

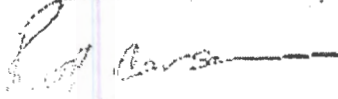
Provider: **Rudy Carson**

Technician: *Anthony Jesus Soto*

License #: MP0002036

License #: MT0001771

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: Home Owner  
1004 Cimarron  
Spring Branch, TX 78070

Printed: 7/17/2020  
Site: 1004 Cimarron  
Spring Branch, TX 78070

Permit #: 109339

Agency: Comal County

County: Comal

Sub: Lake of the Hills Estates

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic Without Chlorine System S/N: 25031

Disposal: Drip Emitters

Customer ID: 6817

Contract Dates: 11/20/2019 - 11/20/2021

Scheduled Date: 7/20/2020

Inspection 2 of 6

Installed: 9/6/2019

Aerator S/N: 2997

Warranty End: 9/6/2021

GPS Coordinates - Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"

Visit Date: 7/17/2020

Time In: 4:50pm

Out: 5:05pm

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

**Sludge Levels**

For Tank 1: 12

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: 3.3

**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 2" - Cleaned drip filter and line - PSI 25

Insp ID #: 95871

Provider: **Rudy Carson**

Technician: Ronnie W Krampota

License #: MP0002036

License #: MT0001175

Expires: 7/31/2023

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: Home Owner  
PO Box 1950  
San Marcos, TX 78667

Printed: 11/13/2020  
Site: 1004 Cimarron  
Spring Branch, TX 78070

Permit #: **109339**

Agency: Comal County  
County: Comal Sub: Lake of the Hills Estates  
Mfg / Brand: Advantage Wastewater LLC - Nu Water  
Treatment Type: Aerobic Without Chlorin System S/N: 25031  
Disposal: Drip Emitters

Customer ID: 6817  
Contract Dates: 11/20/2019 - 11/20/2021  
Scheduled Date: 11/20/2020 Inspection 3 of 6  
Installed: 9/6/2019  
Aerator S/N: 2997 Warranty End: 9/6/2021  
GPS Coordinates - Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"  
Entered By: Joseph A Crowder

Visit Date: 11/13/2020 Time In: 11:45 Out: 12:00

Method: Grab

Technician: Joseph A Crowder

Maint. Provider: Rudy Carson

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

**Sludge Levels**  
For Tank 1: 12  
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. Cleaned drip filter and flushed system reset at 25 psi. - Secured system in the on position with a lock bolt - Scum in pretreatment is 2".

Insp ID #: 101497

Provider: **Rudy Carson**

Technician: **Joseph A Crowder**

License #: MP0002036

License #: MT0001769

Expires: 9/30/2022





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

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

To: Home Owner  
PO Box 1950  
San Marcos, TX 78667

Printed: 3/31/2021  
Site: 1004 Cimarron  
Spring Branch, TX 78070

Permit #: **109339**

Customer ID: 6817

Agency: Comal County

Contract Dates: 11/20/2019 - 11/20/2021

County: Comal

Sub: Lake of the Hills Estates

Scheduled Date: 3/20/2021

Inspection 4 of 6

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Installed: 9/6/2019

Treatment Type: Aerobic Without Chlorine System S/N: 25031

Aerator S/N: 2997

Warranty End: 9/6/2021

Disposal: Drip Emitters

GPS Coordinates - Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"

**Visit Date: 3/31/2021**

Time In: 1200PM

Out: 1232PM

Entered By: Alex Seidensticker

**Method: Grab**

Technician: Alex Seidensticker

Maint. Provider: Burt Seidensticker

Aerators: Operational

**Sludge Levels**

Filters: Operational

For Tank 1: 6"

Irrigation Pumps: Operational

For Tank 2: 12"

Disinfection Device: Operational

For Tank 3: 4"

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. - Scum in pretreatment is 6" - Cleaned compressor filter. Cleaned drip filter, flushed lines and set to 22 psi. The 90 on drip filter is cracked.

Insp ID #: 106993

Provider: **Burt Seidensticker**

Technician: **Alex Seidensticker**

License Info: MP0000002 Expires:

License Info: MP0001961 Expires: 9/30/2021



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

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

To: Home Owner  
PO Box 1950  
San Marcos, TX 78667

Printed: 7/9/2021  
Site: 1004 Cimarron  
Spring Branch, TX 78070

Permit #: **109339**

Customer ID: 6817

Agency: Comal County  
County: Comal

Sub: Lake of the Hills Estates

Contract Dates: 11/20/2019 - 11/20/2021

Scheduled Date: 7/20/2021

Inspection 5 of 6

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Installed: 9/6/2019

Treatment Type: Aerobic Without Chlorine System S/N: 25031

Aerator S/N: 2997

Warranty End: 9/6/2021

Disposal: Drip Emitters

GPS Coordinates - Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"

**Visit Date: 7/9/2021**

Time In: 11am

Out: 11:30

**Entered By: Michael S Looney**

**Method: Grab**

Technician: Michael S Looney

Maint. Provider: Rudy Carson

Aerators: Operational

**Sludge Levels**

Filters: Operational

For Tank 1: 0"

Irrigation Pumps: Operational

For Tank 2: 0"

Disinfection Device: Operational

For Tank 3: 2"

CFM: 3.0

Air Filter: Good

Turbidity: 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. - Cleaned compressor filter. Scum in pretreatment is 12".  
Cleaned drip filter. Reset timer. Drip filter casing has a small crack at hose connection, and should be repaired as soon as possible.  
Please set up current contact information with office to help us better service you in the future.

Insp ID #: 111378

Provider: **Rudy Carson**

Technician: *Michael S Looney*

License # MP0002036

License # MT0001616

Expires:



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

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

Customer ID  
6817

**Contract Period**  
**Start Date: 11/20/2021**  
**End Date: 11/20/2024**

(956) 792-6845

Email: sophiekaycampbell@gmail.com

**Permit #: 109339**

**To: Pastiche interprise**  
**PO Box 1905**  
**San Marcos, TX 78667**

Site: 1004 Cimarron, Spring Branch, TX 78070  
County: Comal  
Installer: Dennis Varhol  
Agency: Comal County  
Mfg/Brand: Advantage Wastewater LLC-Nu Water-25031

Installed: 9/6/2019  
Warranty End: 9/6/2021

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

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: \_\_\_\_\_

Date Printed: 10/25/2021

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

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

To: Pastiche interprise  
PO Box 1905  
San Marcos, TX 78667

Printed: 12/3/2021  
Site: 1004 Cimarron  
Spring Branch, TX 78070  
(956) 792-6845

Permit #: **109339**

Agency: Comal County  
County: Comal

Sub: Lake of the Hills Estates

Mfg / Brand: Advantage Wastewater LLC - Nu Water  
Treatment Type: Aerobic Without Chlorine System S/N: 25031  
Disposal: Drip Emitters

Customer ID: 6817

Contract Dates: 11/20/2021 - 11/20/2024

Scheduled Date: 11/20/2021

Inspection 1 of 9

Installed: 9/6/2019

Aerator S/N: 2997

Warranty End: 9/6/2021

GPS Coordinates - Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"

Visit Date: **12/3/2021**

Time In: 1040

Out: 1055

Entered By: Alejandro Gonzalez

Method: **Grab**

Technician: Alejandro Gonzalez

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

**Sludge Levels**

For Tank 1: 12"

For Tank 2: 0"

For Tank 3: 6"

Air Filter: Good

Tank Lid / Riser: Secured

Insp. Port / Plug: 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. - Inspection Port Plug was noted as Secured prior to leaving. - Scum in pretreatment is 12". - Cleaned compressor filter

Insp ID #: 116828

Provider: **Rudy Carson**

Technician: **Alejandro Gonzalez**

License #: MP0002036

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: Pastiche interprise  
PO Box 1905  
San Marcos, TX 78667

Printed: 3/4/2022  
Site: 1004 Cimarron  
Spring Branch, TX 78070  
(956) 792-6845

Permit #: **109339**

Agency: Comal County  
County: Comal Sub: Lake of the Hills Estates  
Mfg / Brand: Advantage Wastewater LLC - Nu Water  
Treatment Type: Aerobic Without Chlorine System S/N: 25031  
Disposal: Drip Emitters

Customer ID: 6817  
Contract Dates: 11/20/2021 - 11/20/2024  
Scheduled Date: 3/20/2022 Inspection 2 of 9  
Installed: 9/6/2019  
Aerator S/N: 2997 Warranty End: 9/6/2021  
GPS Coordinates - Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"

Visit Date: **3/4/2022**

Time In: 1054a

Out: 1115a

Entered By: Jose Ramos

Method: Grab

Technician: Jose Ramos

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

**Sludge Levels**

For Tank 1: 16"

For Tank 2: 0"

For Tank 3: 1"

CFM: 3.4

Air Filter: Good

Turbidity: Good

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: 3.0

**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 8". Reset current time. I cleaned dripper filter.

Insp ID #: 121260

Provider: **Rudy Carson**

Technician: Jose Ramos

License #: MP0002036

License #: MT0001770

Expires: 9/1/2022

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

*EMAIL*

Printed: 11/7/2022 Insp ID #: 133221

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

**To: Pastiche interprise**  
PO Box 1905  
San Marcos, TX 78667

Permit #: **109339**

Main Phone: (956) 792-6845  
Work:  
Cell Phone:  
Alt Cell:

Customer ID: 6817  
Contract Dates: 11/20/2021 - 11/20/2024  
Scheduled Date: 11/20/2022 Inspection 4 of 9  
Installed: 9/6/2019  
Aerator S/N: 2997 Warranty End: 9/6/2021  
GPS Coordinates: Latitude: 29.95111 Longitude: -98.39593

Agency: Comal County  
County: Comal Sub: Lake of the Hills Estates  
Mfg / Brand: Advantage Wastewater LLC - Nu Water  
Treatment Type: Aerobic Without Chlorine System S/N: 25031  
Disposal: Drip Emitters

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"  
**Entered By: Andrea Hernandez**

**Visit Date: 11/7/2022** Time In:

**Method: Grab**  
**Technician: Not Assigned**  
**Maint. Provider: Rudy Carson**

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

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

**Chlorine Residual: 1**

**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. - Cleaned compressor filter, reset timer, 14" of scum in pretreatment. - Cleaned drip filter and back flushed drip filed

Site: 1004 Cimarron, Spring Branch, TX 78070

**Provider: Rudy Carson**

License Info: MP0002036 Expires: 11/30/2022

*Ala Hls*



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

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

**To: Pastiche interprise**  
**PO Box 1905**  
**San Marcos, TX 78667**

Printed: 3/18/2023  
Insp ID #: 138141  
Main Phone: (956) 792-6845  
Work:  
Cell Phone:  
Alt Cell:

Permit #: **109339**

Customer ID: 6817

Agency: Comal County

Contract Dates: 11/20/2021 - 11/20/2024

County: Comal

Sub: Lake of the Hills Estates

Scheduled Date: 3/20/2023

Inspection 5 of 9

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Installed: 9/6/2019

Treatment Type: Aerobic Without Chlorine System S/N: 25031

Aerator S/N: 2997

Warranty End: 9/6/2021

Disposal: Drip Emitters

GPS Coordinates: Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

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

**Visit Date: 3/18/2023**

Time In:

Out: 1140

**Method: Grab**

**Technician: Trenton L Soldan**

**Maint. Provider: Rudy Carson**

Aerators: Operational

**Sludge Levels**

Filters: Operational

**For Tank 1: 18"**

Irrigation Pumps: Operational

**For Tank 2: 0"**

Disinfection Device: Operational

**For Tank 3: 3"**

**Turbidity: Good**

**Floats: OP**

**Timer: OP**

**Air Filter: Good**

Electric Circuits: Operational

**Tank Lid / Riser: Secured**

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. - Cleaned compressor filter - Cleaned drip filter and back flushed drip filed - Scum in pretreatment is 14".

Site: 1004 Cimarron, Spring Branch, TX 78070

**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: Pastiche interprise**  
**PO Box 1905**  
**San Marcos, TX 78667**

Printed: 9/7/2023  
Insp ID #: 145071

Main Phone: (956) 792-6845  
Work:  
Cell Phone:  
Alt Cell:

Permit #: **109339**

Agency: Comal County  
County: Comal  
Mfg / Brand: Advantage Wastewater LLC - Nu Water  
Treatment Type: Aerobic Without Chlorin System S/N: 25031  
Disposal: Drip Emitters

Sub: Lake of the Hills Estates

Customer ID: 6817

Contract Dates: 11/20/2021 - 11/20/2024

Scheduled Date: 7/20/2023

Inspection 6 of 9

Installed: 9/6/2019

Aerator S/N: 2997

Warranty End: 9/6/2021

GPS Coordinates: Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

This counts as a type of "Scheduled Inspection"  
**Entered By: Landon Gronvold**

**Visit Date: 9/7/2023**

Time In: 1:35

Out: 1:45

**Method: Grab**

**Technician: Landon Gronvold**

**Maint. Provider: Rudy Carson**

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

**Sludge Levels**

**For Tank 1: 25**

**For Tank 2: 1"**

**For Tank 3: 4"**

**Floats: OP**

**Timer: OP**

**Electric Circuits: Operational**

**Distribution System: Operational**

**Sprayfield Veg: Operational**

**Tank Lid / Riser: Secured**

**Alarm: Operational**

**Comments**

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Cleaned drip filter and back flushed drip filed - Scum in pretreatment is 13" system is working good

**Service Completed**

Site: 1004 Cimarron, Spring Branch, TX 78070

**Provider: Rudy Carson**

**Technician: Landon Gronvold**

License Info: MP0002036 Expires: 11/30/2025

License Info: MT0001995 Expires: 10/31/2023



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

Printed: 11/21/2023 Insp ID #: 148639

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

**To: Pastiche interprise**  
PO Box 1905  
San Marcos, TX 78667

Permit #: **109339**

Main Phone: (956) 792-6845  
Work:  
Cell Phone:  
Alt Cell:  
Customer ID: 6817

Agency: Comal County  
County: Comal Sub: Lake of the Hills Estates  
Mfg / Brand: Advantage Wastewater LLC - Nu Water  
Treatment Type: Aerobic Without Chlorine System S/N: 25031  
Disposal: Drip Emitters

Contract Dates: 11/20/2021 - 11/20/2024  
Scheduled Date: 11/20/2023 Inspection 7 of 9  
Installed: 9/6/2019  
Warranty End: 9/6/2021  
Aerator S/N: 2997  
GPS Coordinates: Latitude: 29.95111 Longitude: -98.39593

**Service Type: Scheduled Inspection**

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

**Visit Date: 11/21/2023** Time In: 1:40 Out: 1:55

**Method: Grab**  
**Technician: Alejandro Gonzalez**  
**Maint. Provider: Rudy Carson**

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

**Sludge Levels**  
**For Tank 1: 8"**  
**For Tank 2: 0"**  
**For Tank 3: 0"**

**Chlorine Residual: 1**  
**Floats: OP**  
**Timer: OP**

**Electric Circuits: Operational**  
**Distribution System: Operational**  
**Sprayfield Veg: Operational**  
**Tank Lid / Riser: Secured**

**Alarm: Operational**

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

**Service Completed**

Site: 1004 Cimarron, Spring Branch, TX 78070

**Provider: Rudy Carson**

**Technician: Alejandro Gonzalez**

License Info: MP0002036 Expires: 11/30/2025

License Info: MT0000996 Expires: 1/31/2025

**Block Creek Aerobic Services, LLC**

(830) 995-3189

444 A Old Hwy No 9  
Comfort, TX 78013

Printed:2/20/2024

**Permit: 109339**

Site: 1004 Cimarron, Spring Branch, TX 78070

Main Phone: 6506305523

**Katharine Saget**  
PO Box 1905  
San Marcos, TX 78667

Agency: Comal County  
County: Comal  
Subdivision: Lake of the Hills Estates

---

System Info: <u>MFG: Advantage Wastewater LLC</u> <u>Brand: Nu Water</u>	Customer ID: <u>6817</u>
Treatment Type: <u>Aerobic Without Chlorine</u> Disposal Type: <u>Drip Emitters</u>	Aerator S/N: <u>2997</u> Insp ID: <u>154472</u>
Installed: <u>9/6/2019</u> Warranty Expiration: <u>9/6/2021</u>	System S/N: <u>25031</u>

Visit Details

**Visit Date: 2/20/2024** Entered By: Alejandro Gonzalez GPS Lat: 29.95111 GPS Long: -98.39593

Scheduled Date: 3/20/2024 Time In: 12:13pm Contract Starts: 11/20/2021

Entered On: 2/20/2024 Time Out: 12:33pm Contract Ends: 11/20/2024

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Visit Results

**Service Type: Scheduled Inspection**

Count: Inspection 8 of 9

<b>Method:</b> <u>Grab</u>	License #	Expires	
<b>Technician:</b> <u>Alejandro Gonzalez</u>	<u>MT0000996</u>	<u>1/31/2025</u>	
<b>Provider:</b> <u>Rudy Carson</u>	<u>MP0002036</u>	<u>11/30/2025</u>	<input checked="" type="checkbox"/> Service Completed

---

<u>Aerators: Operational</u>	<u>Sludge Level Tank 1: 24"</u>
<u>Filters: Operational</u>	<u>Sludge Level Tank 2: 0"</u>
<u>Irrigation Pumps: Operational</u>	<u>Sludge Level Tank 3: 8"</u>
<u>Disinfection Device: Operational</u>	

**Tank Lid / Riser: Secured**

Electric Circuits: Operational  
Distribution System: Operational  
Drip/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 1" - Cleaned drip filter and back flushed drip field

Provider: *Rudy Carson*  
License: Number: MP0002036 Exp: 11/30/2025

Technician: *Alejandro Gonzalez*  
License: Number: MT0000996 Exp: 1/31/2025



**Block Creek Aerobic Services, LLC**

444 A Old Hwy No 9  
Comfort, TX 78013

(830) 995-3189

Printed:8/2/2024

**Permit: 109339**

Site: 1004 Cimarron, Spring Branch, TX 78070

Main Phone: 6506305523

**Katharine Saget**  
PO Box 1905  
San Marcos, TX 78667

Agency: Comal County  
County: Comal  
Subdivision: Lake of the Hills Estates

System Info: MFG: Advantage Wastewater LLC Brand: Nu Water Customer ID: 6817  
Treatment Type: Aerobic Without Chlorine Disposal Type: Drip Emitters Aerator S/N: 2997 Insp ID: 161197  
Installed: 9/6/2019 Warranty Expiration: 9/6/2021 System S/N: 25031

Visit Details

Visit Date: 8/2/2024

Entered By: Rudy Carson

GPS Lat: 29.95111 GPS Long: -98.39593

Scheduled Date: 7/20/2024

Contract Starts: 11/20/2021

Entered On: 8/2/2024

Contract Ends: 11/20/2024

Visit Results

**Service Type: Scheduled Inspection**

Count: Inspection 9 of 9

Method: Grab

Technician: Rudy Carson

Provider: Rudy Carson

License #

MP0002036

Expires

MP0002036

11/30/2025

Service Completed

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Sludge Level Tank 1: 20

Sludge Level Tank 3: 1

Floats: OP

Timer: OP

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Drip/Sprayfield Veg: Operational

Alarm: Operational

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned drip filter and back flushed drip field

Provider:

*Rudy Carson*

Technician:

*Rudy Carson*

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

License: Number: MP0002036 Exp:



# Block Creek Aerobic Services, LLC

444 A Old Hwy No 9  
Comfort, TX 78013

(830) 995-3189

Owner Phone: (650) 630-5523

**Katharine Saget**

PO Box 1905  
San Marcos, TX 78667

Agency: Comal County

County: Comal

Subdivision: Lake of the Hills Estates

**Site Address: 1004 Cimarron, Spring Branch Permit #: 109339**

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

Treatment Type: Aerobic Without Chlorine Disposal Type: Drip Emitters

Aerator S/N: 2997

ID: 6817

Installed: 9/6/2019

Warranty Expiration: 9/6/2021

Insp ID: 167350

System S/N: 25031

Visit Details

Visit Date: 12/11/2024

Entered By: Rudy Carson

GPS Lat: 29.95111 GPS Long: -98.39593

Scheduled Date: 11/20/2024

Contract Starts: 11/20/2021

Entered On: 12/11/2024

Contract Ends: 11/20/2024

Visit Results

Service Type: **Scheduled Inspection**

Printed: 12/11/2024

Count: Inspection 9 of 9

Method: **Grab**

License #

Expires

Technician: Rudy Carson

Provider: Rudy Carson

MP0002036

11/30/2025

Service Completed

Aerators: Operational

Sludge Level Tank 1: 12

Filters: Operational

Sludge Level Tank 2: 0'

Irrigation Pumps: Operational

Sludge Level Tank 3: 0'

Disinfection Device: Operational

Floats: OP

Timer: OP

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Drip/Sprayfield Veg: Operational

Alarm: Operational

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Cleaned drip filter and back flushed drip field - Scum in pretreatment is 4" - Copy emailed to the customer on 12/11/2024.

Provider: *Rudy Carson*

Technician: *Rudy Carson*

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

License: Number: Exp: