



# COMAL COUNTY

## ENGINEER'S OFFICE

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

Issued This Date: **04/24/2024** Permit Number: **112978**

Location Description: **1876 LAGUNA  
SPRING BRANCH, TX 78070**

Subdivision: **REBECCA CREEK PARK 3RD FILING**  
Unit: **0**  
Lot: **25**  
Block: **35**  
Acreage: **0.0000**

Type of System: **Aerobic  
Drip Irrigation**

Issued to: **VINCENT & CHRISTINA PENDERGRASS**

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to the rules and regulations for on-site sewerage facilities of Comal County, Texas, and the Texas Commission on Environmental Quality.

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

Alterations to this permit including, but not limited to:

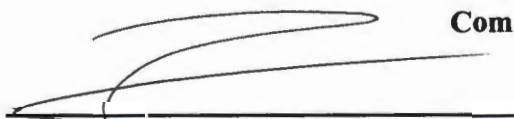
- Increase in the square feet of living area
- Increase in the number of bedrooms
- A change of use (i.e. residential to commercial)
- Relocation of system components (including the relocation of spray heads)
- Installation of landscaping
- Adding new structures to the system

may require a new permit. **It is the responsibility of the owner to apply for a new permit, if applicable.**

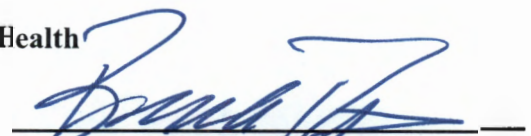
Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

This license to operate is valid for an indefinite period. The holder may transfer it to a succeeding owner, provided the facility has not been remodeled and is functioning properly.

Licensing Authority  
**Comal County Environmental Health**

  
ENVIRONMENTAL HEALTH INSPECTOR

**OS0038255**

  
ENVIRONMENTAL HEALTH COORDINATOR.

**OS0007722**

# 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

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## ENGINEER'S OFFICE

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

Permit Number: 112978  
Issued This Date: 07/26/2021  
This permit is hereby given to: VINCENT & CHRISTINA PENDERGRASS

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

1876 LAGUNA  
SPRING BRANCH, TX 78070

Subdivision: REBECCA CREEK PARK 3RD FILING  
Unit: 0  
Lot: 25  
Block: 35  
Acreage: 0.0000

#### APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic  
Drip Irrigation

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

Call (830) 608-2090 to schedule inspections.

**RECEIVED**

By KG at 10:44 am, Jul 21, 2021



**COMAL COUNTY**

ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION  
CHECKLIST**

*Staff will complete shaded items*

		112978
Date Received	Initials	Permit Number

**Instructions:**

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

**OSSF Permit**

- ☒ Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate
- ☒ Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer
- ☒ Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.
- ☒ 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

07/20/2021  
\_\_\_\_\_  
Date

___ COMPLETE APPLICATION	
Check No. _____	Receipt No. _____

INCOMPLETE APPLICATION
___ (Missing Items Circled, Application Refeused)

**RECEIVED**

By KG at 10:44 am, Jul 21, 2021



COMAL COUNTY  
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

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

Date July 8, 2021

Permit Number 112978

1. APPLICANT / AGENT INFORMATION

Owner Name VINCENT MICHAEL PENDERGRASS & CHRISTINA PENDERGRASS  
Mailing Address c/o 13838 SOUTHTON ROAD  
City, State, Zip SAN ANTONIO TEXAS 78223  
Phone # 210-633-0800  
Email leo@alamotransport.com

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

2. LOCATION

Subdivision Name REBECCA CREEK PARK Unit 3rd Lot 25 Block 35

Survey Name / Abstract Number \_\_\_\_\_ Acreage \_\_\_\_\_

Address 1876 LAGUNA City SPRING BRANCH State TX Zip 78070

3. TYPE OF DEVELOPMENT

☒ Single Family Residential

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

Number of Bedrooms 4

Indicate Sq Ft of Living Area 2584

☐ 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: \$ 150,000 (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 ☐ Rainwater Collection

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.

Signature of Owner

*Christina Pendergrass*

Date

*7/17/21*

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

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN  
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATEPlanning 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 &amp; Soil Evaluation

Tank Size(s) (Gallons) NUWATER B-550-PC Absorption/Application Area (Sq Ft) 2836Gallons Per Day (As Per TCEQ Table III) 300

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

Is the property located over the Edwards Recharge Zone? ☐ Yes ☒ No

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

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

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

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

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

Is the property located over the Edwards Contributing Zone? ☒ Yes ☐ NoIs there an existing TCEQ approval CZP for the property? ☐ Yes ☒ No

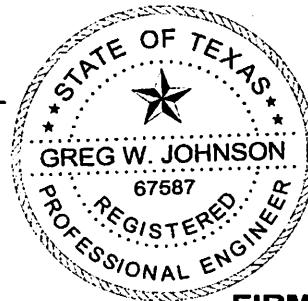
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

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

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

Is this property within an incorporated city? ☐ Yes ☒ No

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



FIRM #2585

By signing this application, I certify that:

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

Signature of Designer

Date October 21, 2021



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**AFFIDAVIT****THE COUNTY OF COMAL  
STATE OF TEXAS****CERTIFICATION OF OSSF REQUIRING MAINTENANCE**

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

**I**

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

**II**

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

UNIT/PHASE/SECTION 35 BLOCK 25 LOT REBECCA CREEK PARK, 3RD FILING SUBDIVISION

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

VINCENT MICHAEL PENDERGRASS &  
CHRISTINA PENDERGRASS

The property is owned by (insert owner's full name): \_\_\_\_\_

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 17 DAY OF July, 20 21

[Signature]  
[Signature]

Owner(s) signature(s)  
Vincent Michael Pendergrass  
Christina Pendergrass

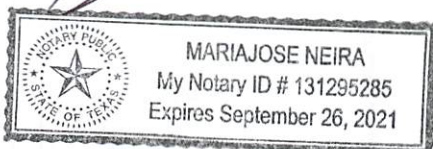
Vincent Pendergrass  
Christina Pendergrass

Owner (s) Printed name (s)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 17 DAY OF

July, 20 21

[Signature]  
Notary Public Signature



**RECORDED AS  
RECEIVED**

THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY

Filed and Recorded  
Official Public Records  
Bobbie Koepf, County Clerk  
Comal County, Texas  
07/20/2021 01:43:21 PM  
TERRI 1 Page(s)  
202106038563



Bobbie Koepf

RECORDER'S MEMORANDUM  
THIS DOCUMENT WAS OF POOR  
QUALITY AT THE TIME OF RECORDING  
AND MAY NOT REPRODUCE

## 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 VINCENT M. & CHRISTINA PENDERGRASS

Site Address 1876 LAGUNA

City SPRING BRANCH Zip 78070

Mailing Address \_\_\_\_\_

County COMAL Map # CCEO 16, D7

Phone 210-365-4747

Email \_\_\_\_\_

2 YEAR CONTRACT

2 YEAR WARRANTY ON PARTS AND LABOR

SUBDIVISION/LEGAL: REBECCA CREEK PARK, 3rd Filing  
BLOCK 35, LOT 25

**I. General:** This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between VINCENT M. & CHRISTINA PENDERGRASS (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:

- 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 with in 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.

VP CP

Customer's Initials



BS

Contractor's Initials

f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

**V. Disinfection:**

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

**VI. Electronic Monitoring:**

Electronic Monitoring is not included in this Agreement.

**VII. Performance of Agreement:**

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

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

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

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

**VIII. Customer's Responsibilities:**

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

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

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

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

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

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

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

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

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

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

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

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

**IX. Access by Contractor:**

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

**X. Limit of Liability:**

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

**XI. Indemnification:**

Customer (whether one or more) shall and does hereby agree to indemnify, hold harmless and defend Contractor and each of its successors, assigns, heirs, legal representatives, devisees, employees, agents and/or counsel (collectively "Indemnitees") from and against any and all liabilities, claims, damages, losses, liens, causes of action, suits, fines, judgments and other expenses (including, but not limited to, attorneys' fees and expenses and costs of investigation), of any kind, nature or

CP

Customer's Initials



BS

Contractor's Initials

description, (hereinafter collectively referred to as "Liabilities") arising out of, caused by, or resulting, in whole or in part, from this Agreement.

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

Customer hereby waives its right of recourse as to any Indemnitee when Indemnification applies, and Customer shall require its insurer(s) to waive its/their right of subrogation to the extent such action is required to render such waiver of subrogation effective. Customer shall be subrogated to Indemnitees with respect to all rights Indemnitees may have against third parties with respect to matters as to which Customer provides indemnity and/or defense to Indemnitees. No Indemnification is provided to Indemnitees when the liability or loss results from (1) the sole responsibility of such Indemnitee; or, (2) the willful misconduct of such Indemnitee. Upon irrevocable acceptance of this Indemnification obligation, Customer, in its sole discretion, shall select and pay counsel to defend Indemnitees of and from any action that is subject to this Indemnification provision. Indemnitees hereby covenant not to compromise or settle any claim or cause of action for which Customer has provided Indemnification without the consent of Customer.

**XII. Severability:**

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

**XIII. Fee for Services:**

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

**XIV. Payment:**

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

**XV. Application or Transfer of payment:**

The fees paid for this agreement may be transferred to subsequent property owner(s); however, this Agreement is not transferable. Customer shall advise the subsequent property owner(s) of the State requirement that they sign a replacement agreement authorizing Contractor to perform the herein described Services, and accepting Customer's Responsibilities. This replacement Agreement must be signed and received in Contractor's offices within ten (10) business days of date of transfer of property ownership. Contractor will apply all funds received from Customer first to any past due obligation arising from this Agreement including late fees or penalties, return check fees, and/or charges for services or repairs not paid within thirty (30) days of invoice date. Any remaining monies shall be applied to the funding of the replacement Agreement. The consumption of funds in this manner may cause a reduction in the termination date of effective coverage per this Agreement. See Section IV.

**XVI. Entire Agreement:**

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

Brent S. Lindquist  
Block Creek Aerobic Services, LLC,  
Contractor  
MC# 0000042 and MC#0000002

VP CP

Customer's Initials

Chris R. 7/17/2021  
Customer Signature Date  
7/17/2021



BS  
Contractor's Initials

# ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: July 13, 2021

Site Location: REBECCA CREEK PARK - 3rd FILING, BLOCK 35, LOT 25

Proposed Excavation Depth: N/A

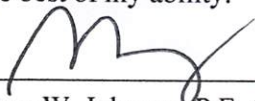
**Requirements:**

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 <u>          </u> 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 @ 4"	BROWN
1						
2						
3						
4						
5						

SOIL BORING NUMBER <u>          </u> 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

07/13/2021  
Date

**Date:** July 14, 2021

**Site Evaluator Information:**

Name: VINCENT MICHAEL & CHRISTINA PENDERGRASS

Name: Greg W. Johnson, P.E., R.S, S.E. 11561

Address:                      **c/o 13838 SOUTHTON ROAD**

Address: 170 Hollow Oak

City: **SAN ANTONIO** State: **TEXAS**

City: New Braunfels State: Texas

Zip Code: 78223 Phone: (210) 633-0800

Zip Code: 78132 Phone & Fax (830)905-2778

**REBECCA CREEK PARK - 3rd  
FILING**

Lot 25 Unit      Blk 35 Subd.

Street Address: 1876 LAGUNA

City: SPRING BRANCH Zip Code: 78070

Additional Info.:

## Name:

Company:

Address:

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip Code: \_\_\_\_\_ Phone \_\_\_\_\_

**Topography:** Slope within proposed disposal area: 6 to 8 %

Presence of 100 yr. Flood Zone:

Existing or proposed water well in nearby area.

Presence of adjacent ponds, streams, water impoundments

### Presence of upper water shed

Organized sewage service available to lot

YES        NO X

YES        NO X

YES        NO **X**

YES\_\_\_ NO X

YES \_\_\_\_\_ NO **X**

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

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

DATE \_\_\_\_\_

**FIRM #2585**

**DRIP TUBING SYSTEM****DESIGNED FOR:**

VINCENT MICHAEL & CHRISTINA PENDERGRASS  
13838 SOUTHTON ROAD  
SAN ANTONIO, TEXAS 78223

**SITE DESCRIPTION:**

Located in Rebecca Creek Park, 3<sup>rd</sup> filing, Block 35, Lot 25, at 1876 Laguna, the proposed system will serve a four bedroom mobile residence (2584 sf.) situated in an area with Type-III soil as described in the Soil Evaluation Report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

**PROPOSED SYSTEM:**

A 3 or 4 inch SCH-40 pipe discharges from the residence into a new NuWater B550 600 gpd 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 Franklin C1-Series-20XC105P4-2W115 submersible pump or equivalent. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a tank operating level from 50-70 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal 1" Super Filter, disk filter " filter then through a 1" SCH-40 manifold to a 2836 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 periodically flush the system by cycling a 1" ball valve. Solids caught in the Arkal 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 installing tubing the entire field must be scarified and built up with eight inches of Type II or III soil. Drip tubing will be laid and the entire field area will be capped with 6" of loamy soil (Type 2 or 3 - **NOT SAND**). The field area will be sodded with grass with hearty grass such as Bermuda, St. Augustine, etc. prior to system startup.

**Tanks 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 = 300 gallons per day - 4 bedroom residence (Table III)

Pretreatment tank size: 353 Gal

Plant Size: NuWater B550- 600 GPD (TCEQ Approved)

Pump tank size: 768 Gal

**REVISED**

10:14 am, Oct 21, 2021

Reserve capacity after High Level: 100 gal. (1/3 day usage)

Application Rate:  $R_a = 0.2$  gal/sf

Total absorption area:  $Q/R_a = 300 \text{ GPD}/0.20 = 1500 \text{ sf.}$  (Actual 2836 sf.)

Total linear feet drip tubing: 1418' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 709 emitters @ 0.61 gph @ 30 psi = 7.21 gpm

Pump: 0.5 HP Franklin C1-Series-20XC105P4-2W115 submersible pump or equivalent.

Dosing volume: 50-70 gal.

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

Volume below working level = 15" = 218 gal

Working level = 300 gal = 21"

Reserve Requirement = 1 day = 100 gal. = 7"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

$MSV = 1.5 \text{ gpm MIN FLOW RATE} \times 4 \text{ lines} = 6 \text{ gpm}$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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


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

$MSV = 5.4 \text{ GPM}$

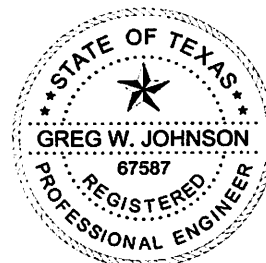
### **PIPE AND FITTINGS:**

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

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

 10/21/2021

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



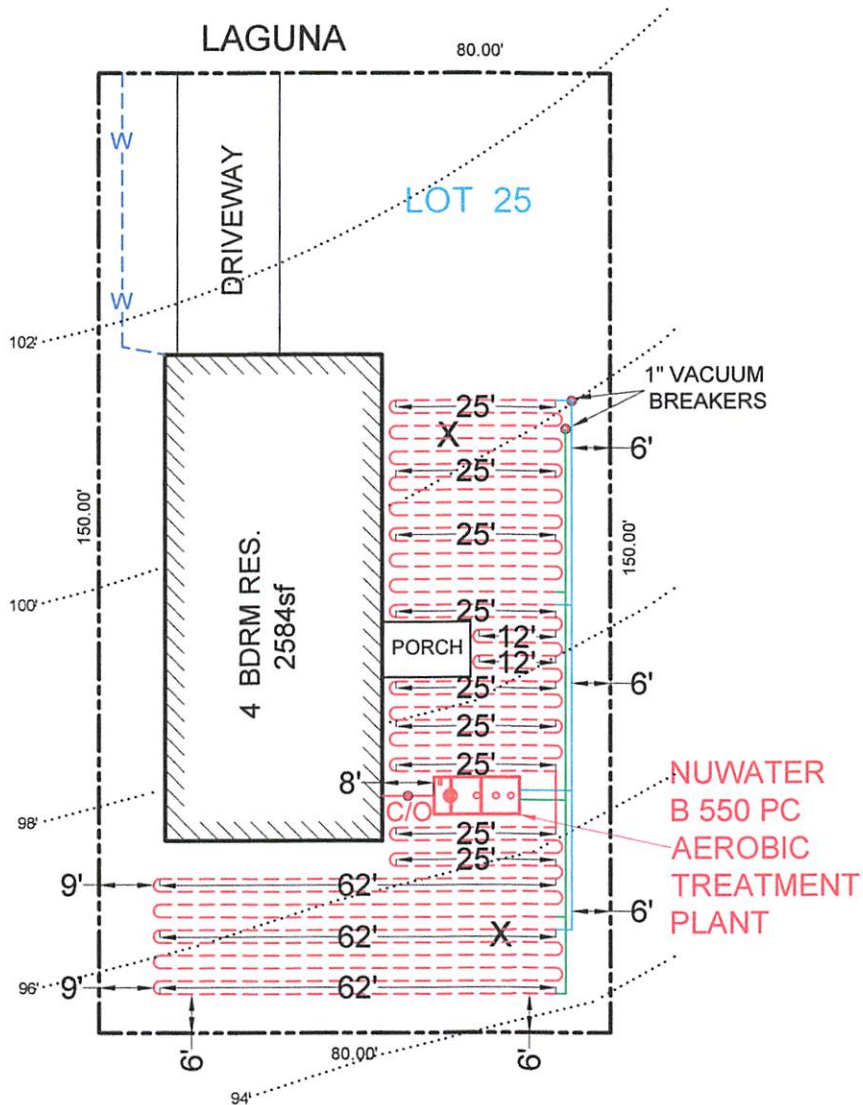
**REVISED**

10:14 am, Oct 21, 2021

INSTALL 2836sf OF  
FIELD USING 1418' 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



OWNER: VINCENT MICHAEL & CHRISTINA PENDERGRASS					DRAWN BY: EJS III		
STREET ADDRESS: 1876 LAGUNA							
LEGAL DESC: REBECCA CREEK PARK - 3rd FILING				UNIT/SECTION/PHASE:		BLOCK: 35	LOT: 25
PREPARED BY: GREG W. JOHNSON, P.E. F#002585			SCALE: 1"=30'	DATE: 7/14/2021		REVISED: 10/21/2021	



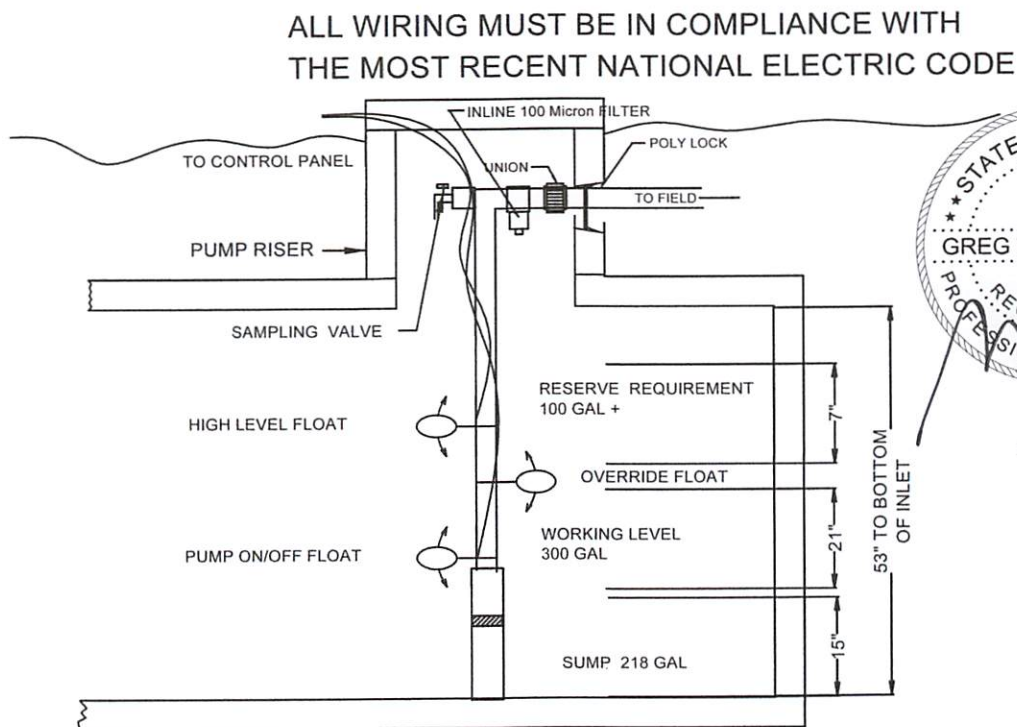
## TANK NOTES:

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



*Handwritten signature and date:*  
07/14/2021

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

# Arkal 1" Super Filter

Catalog No. 1102 0 \_ \_ \_

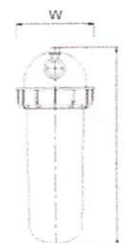
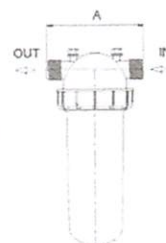
## Features

- ♦ 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.



## Technical Data

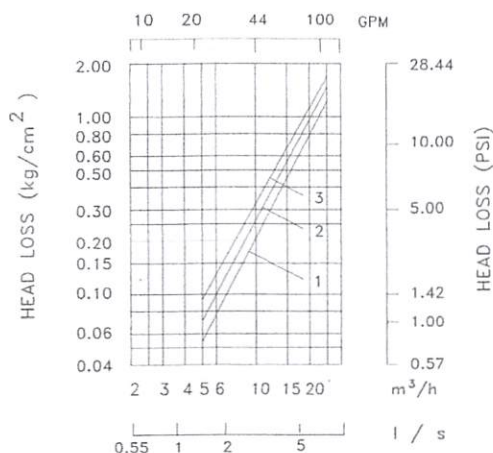
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m <sup>3</sup> /h (1.7 l/sec)	35 gpm
General filtration area	500 cm <sup>2</sup>	77.5 in <sup>2</sup>
Filtration volume	600 cm <sup>3</sup>	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)

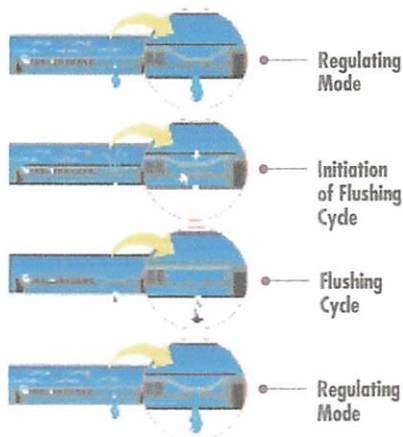
## Head Loss Chart



# NETAFIM™

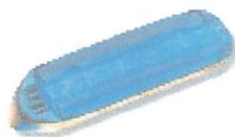
## Bioline® Dripperline

### 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, clog free operation, year after year.



### Product Advantages

#### The Proven Performer

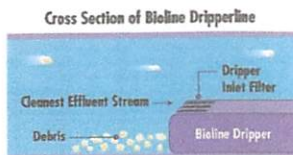
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

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

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

#### Long-Term Reliability

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



#### Root Safe

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



### Applications

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

### Specifications

Wall thickness (mil): 45\*

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

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

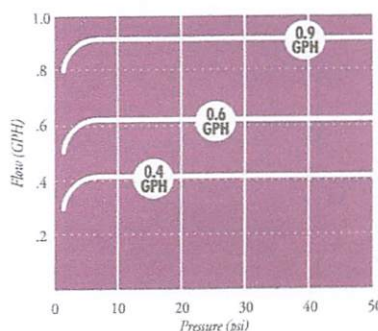
Recommended filtration: 120 mesh

Inside diameter: .570\*

Color: Purple tubing indicates non-potable source

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

BIOLINE Flow Rate vs. Pressure



#### NETAFIM USA

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

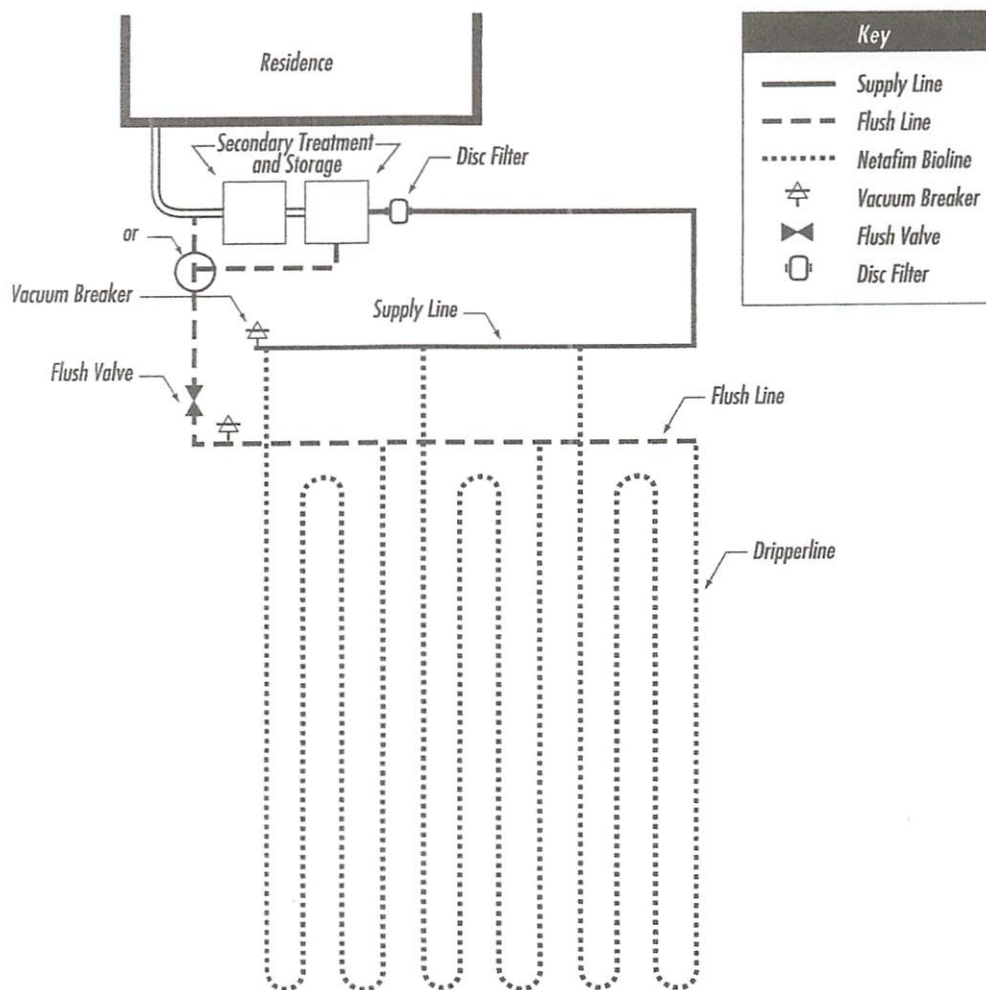
# NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

## 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



**VOID**

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

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN  
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATEPlanning 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 &amp; Soil Evaluation

Tank Size(s) (Gallons) NUWATER B-550-PC Absorption/Application Area (Sq Ft) 2500Gallons Per Day (As Per TCEQ Table III) 300

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

Is the property located over the Edwards Recharge Zone? ☐ Yes ☒ No

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

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

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

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

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

Is the property located over the Edwards Contributing Zone? ☒ Yes ☐ NoIs there an existing TCEQ approval CZP for the property? ☐ Yes ☒ No

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

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

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

Is this property within an incorporated city? ☐ Yes ☒ No

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

**FIRM #2585****VOID**

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

A handwritten signature in black ink, appearing to read "Greg W. Johnson".

Signature of Designer

7/14/21

Date

**VOID**

## **DRIP TUBING SYSTEM**

DESIGNED FOR:

VINCENT MICHAEL & CHRISTINA PENDERGRASS

13838 SOUTHTON ROAD

SAN ANTONIO, TEXAS 78223

### **SITE DESCRIPTION:**

Located in Rebecca Creek Park, 3<sup>rd</sup> filing, Block 35, Lot 25, at 1876 Laguna, the proposed system will serve a four bedroom mobile residence (2584 sf.) situated in an area with Type-III soil as described in the Soil Evaluation Report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

### **PROPOSED SYSTEM:**

A 3 or 4 inch SCH-40 pipe discharges from the residence into a new NuWater B550 600 gpd 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 Franklin 105P4-2W115 submersible pump or equivalent. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a tank operating level from 50-70 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal 1" Super Filter, disk filter" filter then through a 1" SCH-40 manifold to a 2500 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 periodically flush the system by cycling a 1" ball valve. Solids caught in the Arkal 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 installing tubing the entire field must be scarified and built up with eight inches of Type II or III soil. Drip tubing will be laid and the entire field area will be capped with 6" of loamy soil (Type 2 or 3 - **NOT SAND**). The field area will be sodded with grass with hearty grass such as Bermuda, St. Augustine, etc. prior to system startup.

**Tanks 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 = 300 gallons per day - 4 bedroom residence (Table III)

Pretreatment tank size: 353 Gal

Plant Size: NuWater B550- 600 GPD (TCEQ Approved)

Pump tank size: 768 Gal

**VOID**

Reserve capacity after High Level: 100 gal. (100 gal. storage)  
Application Rate:  $R_a = 0.2$  gal/sf  
Total absorption area:  $Q/R_a = 300 \text{ GPD}/0.20 = 1500 \text{ sf}$ . (Actual 2500 sf.)  
Total linear feet drip tubing: 1250' *Netifim Bioline* drip tubing .61 GPH  
Pump requirement: 625 emitters @ 0.61 gph @ 30 psi = 6.354 gpm  
Pump: 0.5 HP Franklin C1-Series-20XC105P4-2W115 submersible pump or equivalent.  
Dosing volume: 50-70 gal.

Pump Tank Calculations: 768 Gal (14.5 gal/in.)  
Volume below working level = 15" = 218 gal  
Working level = 300 gal = 21"  
Reserve Requirement = 1 day = 100 gal. = 7"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

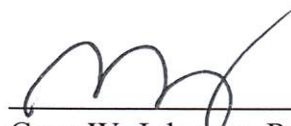
IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

$MSV = 2 \text{ FPS } (\Pi d \uparrow 2)/4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$   
 $MSV = 2(3.14159((1.049/12) \uparrow 2)/4) * 7.48 * 60$   
MSV = 5.4 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. The manifold trench should be kept shallow to prevent interconnection of the trenches.

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

 07/14/2021  
Greg W. Johnson, P.E. No. 67587, F#2585  
170 Hollow Oak  
New Braunfels, Texas 78132  
830/905-2778

VOID

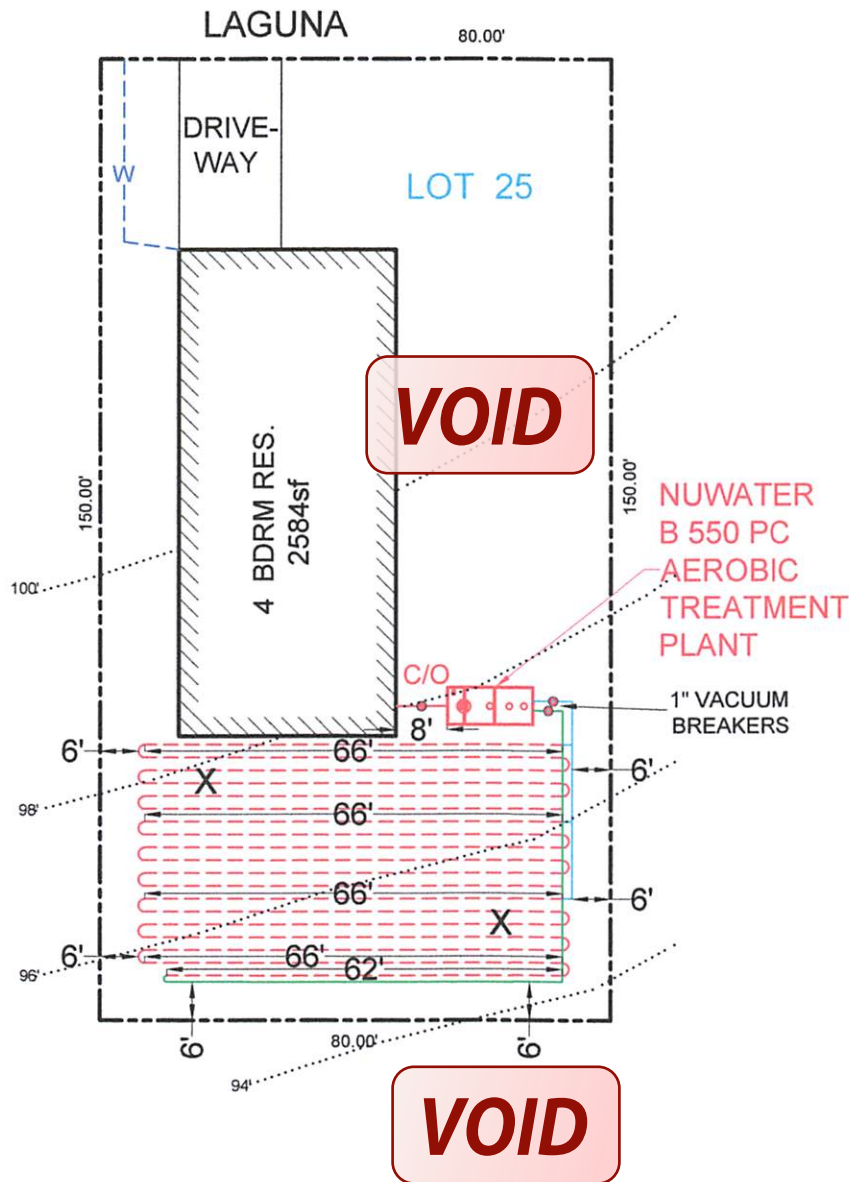


**VOID**

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



OWNER: VINCENT MICHAEL & CHRISTINA PENDERGRASS					DRAWN BY: EJS III		
STREET ADDRESS: 1876 LAGUNA							
LEGAL DESC: REBECCA CREEK PARK - 3rd FILING				UNIT/SECTION/PHASE:		BLOCK: 35	LOT: 25
PREPARED BY: GREG W. JOHNSON, P.E. F#002585			SCALE: 1"=30'	DATE: 7/14/2021		REVISED:	

**General Warranty Deed**  
(with Vendor's Lien)

**NOTICE OF CONFIDENTIALITY RIGHTS**

IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY 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.

Date: June 5, 2021

Grantor: SATX Restorations, LLC, a Texas limited liability company

Grantor's Mailing Address: 30131 Bulverde Ln #151 Bulverde, Tx 78143

Grantee: Vincent Michael Pendergrass and Christina Pendergrass, a married couple

Grantee's Mailing Address: 134 Juniper Ln Boerne, Tx 78006

**Consideration:** Cash and a note, dated June 5, 2021, executed by Borrower and payable to the order of 21st Mortgage Corporation ("Lender") in the principal amount of \$297,143.30. The note is secured by a first and superior vendor's lien against, and superior title to, the Property retained in this deed in favor of 21st Mortgage Corporation and is also secured by a first-lien deed of trust, of even date, to Tim Williams, Trustee, recorded in the real property records of Comal County, Texas.

The vendor's lien against and superior title to the Property are retained for the benefit of 21st Mortgage Corporation until the \$297,143.30 note described above is fully paid according to its terms, at which time this deed will become absolute as to the lien securing this note. The vendor's lien and superior title are transferred to 21st Mortgage Corporation without recourse.

**Property (including any improvements):**

Lot 25, Block 35, REBECCA CREEK PARK, THIRD FILING, situated in Comal County, Texas, according to the map or plat thereof, recorded in Volume 3, Pages 8-15, Map and Plat Records, Comal County, Texas.

**Reservations from Conveyance:** None

Independence Title Company  
GF# 2121334547

#### **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 restrictions, reservations, covenants, conditions, oil and gas leases, mineral interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property; validly existing rights of adjoining owners in any walls and fences situated on a common boundary; any discrepancies, conflicts, or shortages in area or boundary lines; any encroachments or overlapping of improvements; all rights, obligations, and other matters arising from and existing by reason of any water, utility, road, or improvement districts which affect the Property; standby fees, taxes, and assessments by any taxing authority for the current year, which Grantee assumes and agrees to pay, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee also 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.

**Limitation of Warranties:** Pursuant to Section 7 of the purchase and sale contract between Grantor, as Seller, and Grantee, as Buyer, Grantee accepts the Property "AS IS". "As is" means the present condition of the Property with any and all defects and without warranty except for the warranties of title and the warranties in the purchase and sale contract.

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

**NOTICE:** This instrument was prepared by Hancock McGill & Bleau, LLLP (HMB) at the request of Independence Title or the parties using information provided by the title company and the parties. Unless we have been provided with a copy of any contracts related to this transaction or been informed of any reservations required by the seller, the reservations will not be included in this warranty deed and by accepting this deed, all parties release HMB from any liability resulting from the failure to include undisclosed reservations. We have not investigated or verified information provided to us and do not warrant the validity of the information or quality of title to the real estate described above. **We do not represent the parties named in this instrument. The parties should seek independent legal counsel for advice concerning the effect and consequences of this instrument.**

POOR QUALITY

SATX Restorations, LLC

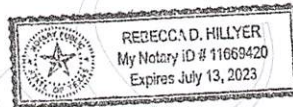
By: Cheryl A. Ettinger  
Name: Cheryl A. Ettinger  
Title: Sole Managing Member

State of TEXAS  
County of Guadalupe

This document was acknowledged before me on June 5, 2021 by Cheryl A. Ettinger, Sole Managing Member of SATX Restorations, LLC on behalf of the Texas limited liability company.

Rebecca D. Hillyer  
Notary Public, State of TX

Prepared By:  
Hancock McGill & Bleau, L.L.L.P.  
Attorneys at Law  
File No. 2121334-sw



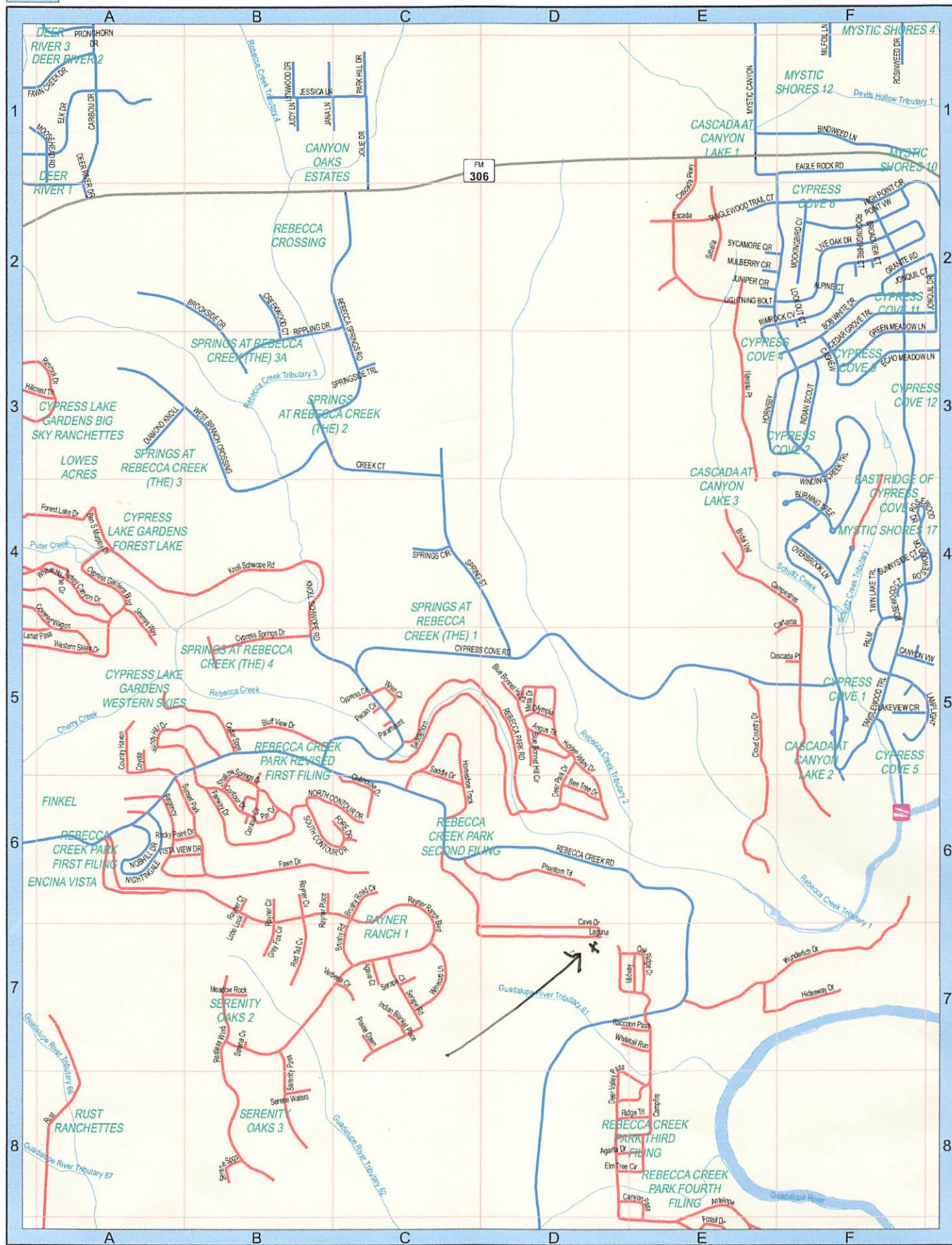
After Recording Return To:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Filed and Recorded  
Official Public Records  
Bobbie Koepp, County Clerk  
Comal County, Texas  
06/08/2021 03:23:29 PM  
NANCY 3 Pages(s)  
202106030755



Bobbie Koepp



SEE PAGE 17



0 1,250 2,500  
Feet

0 0.25 0.5  
Miles

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

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

To: Vincent & Christina Pendergrass  
1876 Laguna  
Spring Branch, TX 78070

Printed: 8/12/2022  
Insp ID #: 128515

Main Phone: (210) 852-6155  
Work:  
Cell Phone:  
Alt Cell:

Permit #: 112978

Agency: Comal County  
County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water  
Treatment Type: Aerobic With Chlorine  
Disposal: Drip Emitters

Customer ID: 8111  
Contract Dates: 6/28/2022 - 6/28/2024  
Scheduled Date: 10/28/2022

GPS Coordinates: Latitude: 29.90791 Longitude: -98.35510

### Service Type: Customer Request

Visit Date: 8/12/2022

Time In: 930am

Out: 10am

Entered By: Jason K Stanberry

Method: Grab

Technician: Jason K Stanberry

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

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. Break in drip field - rebuilt drip filter and added a union

☒ Service Completed

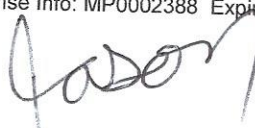
Site: 1876 Laguna, Spring Branch, TX 78070

Provider: **Rudy Carson**

Technician: Jason K Stanberry

License Info: MP0002036 Expires:

License Info: MP0002388 Expires: 10/30/2024



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

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

To: Vincent & Christina Pendergrass  
1876 Laguna  
Spring Branch, TX 78070

Printed: 9/28/2022  
Insp ID #: 131115

Main Phone: (210) 852-6155  
Work:  
Cell Phone:  
Alt Cell:

Permit #: **112978**

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic With Chlorine

Disposal: Drip Emitters

Customer ID: 8111

Contract Dates: 6/28/2022 - 6/28/2024

Scheduled Date: 10/28/2022

Inspection 1 of 6

GPS Coordinates: Latitude: 29.90791 Longitude: -98.35510

**Service Type: Scheduled Inspection**

Visit Date: **9/28/2022**

Time In: 1255p

Out: 118

Method: **Grab**

Technician: Jose Ramos

Maint. Provider: Rudy Carson

☒ This counts as a type of "Scheduled Inspection"  
Entered By: Jose Ramos

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

Chlorine Supply: Operational

Chlorine Residual: 0.7

**Sludge Levels**

For Tank 1: 15"

For Tank 2: 0"

For Tank 3: 0"

Floats: OP

Timer: OP

CFM: 2.6

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Tank Lid / Riser: Secured

Insp. Port / Plug: Secured

Alarm: Operational

**Comments**

- 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. Tank 1 scum 3"

☒ **Service Completed**

Site: 1876 Laguna, Spring Branch, TX 78070

Provider: **Rudy Carson**

Technician: Jose Ramos

License Info: MP0002036 Expires:

License Info: MT0001770 Expires: 9/1/2022

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

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

To: Vincent & Christina Pendergrass  
1876 Laguna  
Spring Branch, TX 78070

Printed: 2/21/2023  
Insp ID #: 137140

Main Phone: (210) 852-6155  
Work:  
Cell Phone:  
Alt Cell:

Permit #: 112978

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic With Chlorine

Disposal: Drip Emitters

Customer ID: 8111

Contract Dates: 6/28/2022 - 6/28/2024

Scheduled Date: 2/28/2023

Inspection 2 of 6

GPS Coordinates: Latitude: 29.90791 Longitude: -98.35510

**Service Type: Scheduled Inspection**

☒ This counts as a type of "Scheduled Inspection"  
Entered By: Noel J Aleman

Visit Date: 2/21/2023

Time In:

Out: 1110am

Method: Grab

Technician: Noel J Aleman

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

**Sludge Levels**

For Tank 1: 18"

For Tank 2: 18"

For Tank 3: 1"

Floats: OP

Timer: OP

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Tank Lid / Riser: Secured

Color: Good

Odor: Good

Alarm: Operational

**Comments**

- Technician Secured the Tank Lid and/or Riser prior to leaving location. Inspection - Cleaned compressor filter - Scum in pretreatment is 10", checked sprinklers, checked timer, checked buzzers, everything is properly working at this time.

☒ Service Completed

Site: 1876 Laguna, Spring Branch, TX 78070

Provider: **Rudy Carson**

Technician: **Noel J Aleman**

License Info: MP0002036 Expires: 11/30/2025

License Info: MT0002393 Expires: 8/30/2025



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

Printed: 7/13/2023 Insp ID #: 142875

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

**To: Vincent & Christina Pendergrass**  
**1876 Laguna**  
**Spring Branch, TX 78070**

Permit #: **112978**

Main Phone: (210) 852-6155

Work:

Cell Phone:

Alt Cell:

Customer ID: 8111

Contract Dates: 6/28/2022 - 6/28/2024

Scheduled Date: 6/28/2023

Inspection 3 of 6

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic With Chlorine

Disposal: Drip Emitters

GPS Coordinates: Latitude: 29.90791 Longitude: -98.35510

**Service Type: Scheduled Inspection**

**Visit Date: 7/13/2023**

Time In: 1:10

☒ This counts as a type of "Scheduled Inspection"

**Entered By: Trenton L Soldan**

**Method: Grab**

**Technician: Trenton L Soldan**

**Maint. Provider: Rudy Carson**

**Aerators: Operational**

**Filters: Operational**

**Irrigation Pumps: Operational**

**Disinfection Device: Operational**

**Sludge Levels**

**For Tank 1: n/a**

**For Tank 2: n/a**

**For Tank 3: n/a**

**Chlorine Residual: 1**

**Floats: OP**

**Timer: OP**

**Electric Circuits: Operational**

**Distribution System: Operational**

**Sprayfield Veg: Operational**

**Alarm: Operational**

**Comments**

septic lines all ripped up owner is getting fixed

☒ **Service Completed**

Site: 1876 Laguna, 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

*Trenton*

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

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

**To: Vincent & Christina Pendergrass**  
**1876 Laguna**  
**Spring Branch, TX 78070**

Printed: 11/8/2023  
Insp ID #: 146638

Main Phone: (210) 852-6155  
Work:  
Cell Phone:  
Alt Cell:

Permit #: **112978**

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic With Chlorine

Disposal: Drip Emitters

Customer ID: 8111

Contract Dates: 6/28/2022 - 6/28/2024

Scheduled Date: 10/28/2023

Inspection 4 of 6

GPS Coordinates: Latitude: 29.90791 Longitude: -98.35510

**Service Type: Scheduled Inspection**

☒ This counts as a type of "Scheduled Inspection"  
**Entered By: Christopher T Zigalo**

**Visit Date: 11/8/2023**

Time In:

**Method: Grab**

**Technician: Christopher T Zigalo**

**Maint. Provider: Rudy Carson**

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational

Disinfection Device: Operational

**Sludge Levels**

**For Tank 1: 20"**

**For Tank 2: 4"**

**For Tank 3: 2"**

**Floats: OP**

**Timer: OP**

**Electric Circuits: Operational**

**Tank Lid / Riser: Secured**

**Distribution System: Operational**

**Sprayfield Veg: Operational**

**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 filter - Scum in pretreatment is 3"

Site: 1876 Laguna, Spring Branch, TX 78070

**Provider: Rudy Carson**

**Technician: Christopher T Zigalo**

License Info: MP0002036 Expires: 11/30/2025

License Info: MT0001878 Expires: 9/30/2026

# Block Creek Aerobic Services, LLC

444 A Old Hwy No 9  
Comfort, TX 78013

(830) 995-3189

Printed: 1/31/2024

**Permit: 112978**

Site: 1876 Laguna, Spring Branch, TX 78070

Main Phone: 2108526155

**Vincent & Christina Pendergrass**

1876 Laguna  
Spring Branch, TX 78070

Agency: Comal County  
County: Comal

System Info: MFG: Advantage Wastewater LLC Brand: Nu Water  
Treatment Type: Aerobic With Chlorine Disposal Type: Drip Emitters

Customer ID: 8111  
Insp ID: 153686

## Visit Details

**Visit Date:** 1/31/2024

**Entered By:** Alejandro Gonzalez

GPS Lat: 29.90791 GPS Long: -98.35510

Scheduled Date: 2/28/2024

Time In: 2:23pm

Contract Starts: 6/28/2022

Entered On: 1/31/2024

Time Out: 2:40pm

Contract Ends: 6/28/2024

## Visit Results

**Service Type:** Scheduled Inspection

Count: Inspection 5 of 6

**Method:** Grab

**Technician:** Alejandro Gonzalez

License #

MT0000996

Expires

1/31/2025

**Provider:** Rudy Carson

MP0002036

11/30/2025

☒ Service Completed

**Aerators:** Operational

**Filters:** Operational

**Irrigation Pumps:** Operational

**Disinfection Device:** Operational

**Sludge Level Tank 1:** 8"

**Sludge Level Tank 2:** 24"

**Sludge Level Tank 3:** 0"

**Chlorine Residual:** 1

**Turbidity:** Good

**Air Filter:** Good

**Tank Lid / Riser:** Secured

**Electric Circuits:** Operational

**Distribution System:** Operational

**Drip/Sprayfield Veg:** Operational

**Color:** Good

**Odor:** Good

**Alarm:** Operational

## Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - Scum in pretreatment is 4"

**Provider:**

*Rudy Carson*

**Technician:**

*Alejandro Gonzalez*

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

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

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