



COMAL COUNTY

ENGINEER'S OFFICE

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: **08/27/2024** Permit Number: **115921**

Location Description: 1314 CEDAR GROVE TRL
SPRING BRANCH, TX 78070

Subdivision: REPLAT & EXTENSION OF CYPRESS COVE
Unit: 9
Lot: 693
Block: 0
Acreage: 0.0000

Type of System: Aerobic
Drip Irrigation

Issued to: GUERDON, LUCRA, & MAMMON, LLC DBA MODERN COUNTRY HOMES

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

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

Alterations to this permit including, but not limited to:

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

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

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

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

Licensing Authority
Comal County Environmental Health

ENVIRONMENTAL HEALTH INSPECTOR
OS0032485

ENVIRONMENTAL HEALTH COORDINATOR

Assistant: OS0034792

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**

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|-----|---|--------|--|-------|-----------|-----------|-----------|
| 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) | | | | |

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|-----|--|--------|---|-------|-----------|-----------|-----------|
| 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 | | | | | | |

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| No. | Description | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
|-----|---|--------|--|-------|-----------|-----------|-----------|
| 40 | APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple? | | 285.33(d)(2)(G)(iii)(II) 285.33(d)(2)(G)(iii)(III) 285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I) | | | | |
| 41 | APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed | | 285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F) | | | | |
| 42 | APPLICATION AREA Area Installed | | | | | | |
| 43 | PUMP TANK Meets Minimum Reserve Capacity Requirements | | | | | | |
| 44 | PUMP TANK Material Type & Manufacturer | | | | | | |
| 45 | PUMP TANK Type/Size of Pump Installed | | | | | | |



COMAL COUNTY

ENGINEER'S OFFICE

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

Permit Number: 115921
Issued This Date: 03/20/2023
This permit is hereby given to: GUERDON, LUCRA, & MAMMON, LLC DBA MODERN COUNTRY F

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

1314 CEDAR GROVE TRL
SPRING BRANCH, TX 78070

Subdivision: REPLAT & EXTENSION OF CYPRESS COVE
Unit: 9
Lot: 693
Block: 0
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.



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

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

Date January 18, 2022 Permit Number 115921

1. APPLICANT / AGENT INFORMATION

| | | | |
|------------------|---|------------------|----------------------------------|
| Owner Name | <u>GUERDON, LUCRA, & MAMMON, LLC dba MODERN COUNTRY HOMES</u> | Agent Name | <u>GREG JOHNSON, P.E.</u> |
| Mailing Address | <u>17310 FM 306 BOX 1</u> | Agent Address | <u>170 HOLLOW OAK</u> |
| City, State, Zip | <u>CANYON LAKE TEXAS 78133</u> | City, State, Zip | <u>NEW BRAUNFELS TEXAS 78132</u> |
| Phone # | <u>830-935-2098</u> | Phone # | <u>830-905-2778</u> |
| Email | <u>lars@havenbrooktx.com</u> | Email | <u>gregjohnsonpe@yahoo.com</u> |

2. LOCATION

Subdivision Name REPLAT & EXTENSION OF CYPRESS COVE Unit 9 Lot 693 Block _____
 Survey Name / Abstract Number _____ Acreage _____
 Address 1314 CEDAR GROVE TRAIL City SPRING BRANCH State TX Zip 78070

3. TYPE OF DEVELOPMENT

Single Family Residential
 Type of Construction (House, Mobile, RV, Etc.) HOUSE
 Number of Bedrooms 3
 Indicate Sq Ft of Living Area 1294

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: \$ 250,000 (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] Date 03/01/2023
 Signature of Owner Date

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

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

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

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

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.))

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

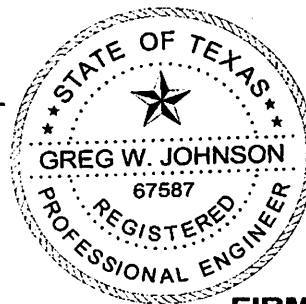
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

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 January 21, 2022

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):

9 UNIT/PHASE/SECTION BLOCK 693 LOT REPLAT & EXTENSION OF CYPRESS COVE SUBDIVISION

IF NOT IN SUBDIVISION: _____ ACREAGE _____ SURVEY _____

The property is owned by (insert owner's full name): GUERDON, LUCRA, & MAMMON, LLC, dba Modern Country Homes

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.

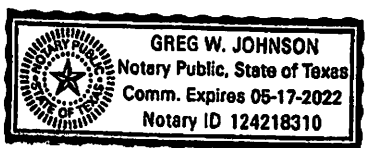
WITNESS BY HAND(S) ON THIS 27 DAY OF January, 2022

[Signature]
Owner(s) signature(s)

CHAD RUTTEN - MANAGER
Owner (s) Printed name (s)

CHAD RUTTEN SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 27 DAY OF JANUARY, 2022

[Signature]
Notary Public Signature



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
02/07/2022 03:53:04 PM
LAURA 1 Pages(s)
202206005770

Bobbie Koepp

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

2 YEAR CONTRACT
2 YEAR WARRANTY ON PARTS AND LABOR

Permit/License Number _____
Customer GUERDON, LUCRA, & MAMMON, LLC
Site Address 1314 CEDAR GROVE TRAIL
City CANYON LAKE, TX 78133
Mailing Address 17310 FM 306, Box 1, C.L. TX 78133
County COMAL Map # CCEO 29 C7
Phone 830-935-2098
Email lars@havenbrooktx.com

SUBDIVISION/LEGAL: Replat & Extension of Cypress Cove
SECTION 9, LOT 693

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between GUERDON, LUCRA, & MAMMON, LLC (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) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

III. Termination of Agreement:

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

IV. Services:

Contractor will:

- a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: control panel, Electrical circuits, timer, Aeration including compressor and diffusers, CFM/PSI measured, lids safety pans, pump, compressor, sludge levels, and anything else required as per the manufacturer.
- b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel.
- c. Repair or replace, if Contractor has the necessary materials at site, any component of the OSSF found to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and the service(s) cost less than \$100.00, Customer hereby authorizes Contractor to perform the service(s) and bill Customer for said service(s). When service costs are greater than \$100.00, or if contractor does not have the necessary supplies at the site, Contractor will notify Customer of the required service(s) and the associated cost(s). Customer must notify Contractor of arrangements to affect repair of system 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.

CR
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):

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

_____ CR

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.


Block Creek Aerobic Services, LLC,
Contractor
MC# 0000042 and MC#0000002


Customer's Initials


Customer Signature Date



BS
Contractor's Initials

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

Date Soil Survey Performed: January 20, 2022

Site Location: CYPRESS COVE (REPLAT & EXTENSION OF), SECTION 9, LOT 693

Proposed Excavation Depth: N/A

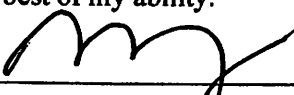
Requirements:

- 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 @ 4" | BROWN |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

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

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



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

01/20/2022

 Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date: January 21, 2022

Applicant Information:

Name: _____
Address: 17310 F.M. 306 BOX 1
City: CANYON LAKE State: TEXAS
Zip Code: 78133 Phone: (830) 935-2098

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 693 Unit 9 Blk _____ Subd. CYPRESS COVE (REPLAT & EXTENSION OF)
Street Address: 1314 CEDAR GROVE TRAIL
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 %
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

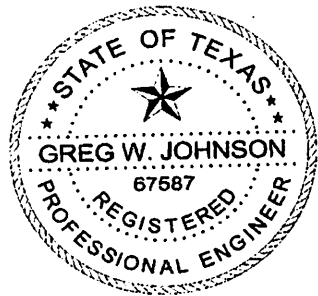
I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (EFFECTIVE DECEMBER 29, 2016).



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

01/21/2022

DATE



FIRM #2585

DRIP TUBING SYSTEM
DESIGNED FOR:
GUERDON, LUCRA, & MAMMON, LLC
17310 FM 306, BOX 1
CANYON LAKE, TX 78133

SITE DESCRIPTION:

Located in the Replat & Extension of Cypress Cove, Section 9, Lot 693, at 1314 Cedar Grove Trail, the proposed system will serve a three bedroom residence (1294sf.) situated in an area with shallow Type-III soil as described in the Soil Evaluation Report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a NuWater B-550-400PT 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768-gallon pump chamber containing a submersible well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 2000sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with **0.61 gph** emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 10" of Type II or Type III soil, (***a minimum of 12" of soil required between tank and drip tubing***), then the drip tubing will be laid and capped with 6" of Type II or Type III soil (***NOT SAND***). The field area will be sodded with grass prior to system startup. **Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

DESIGN SPECIFICATIONS:

Daily waste flow: 240 GPD Table III

Pretreatment tank size: 353 Gal

Plant Size: NuWater B-550 400PT 600 gpd (TCEQ Approved)

Pump tank size: 768Gal

Reserve capacity after High Level: 80 Gal (>1/3 day Req'd)
 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 @ .61 gph @ 30 psi = 5.0833 gpm
 Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump Dosing volume: 50-70 gal.
 Pump Tank Calculations: 768 Gal (14.5 gal/in.)
 Volume below working level = 15" = 218 gal
 Working level = 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

MSV = 2 FPS $(\pi d^2) / 4 * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$
 MSV = $2(3.14159((.55/12)^2) / 4) * 7.48 * 60$
 MSV = 1.5 gpm MIN FLOW RATE x 3 = 4.5 gpm

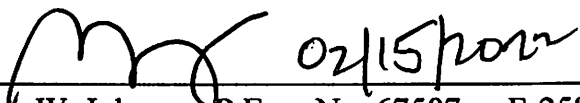
IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

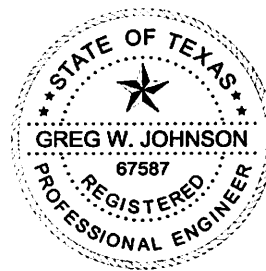
PIPE AND FITTINGS:

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

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



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

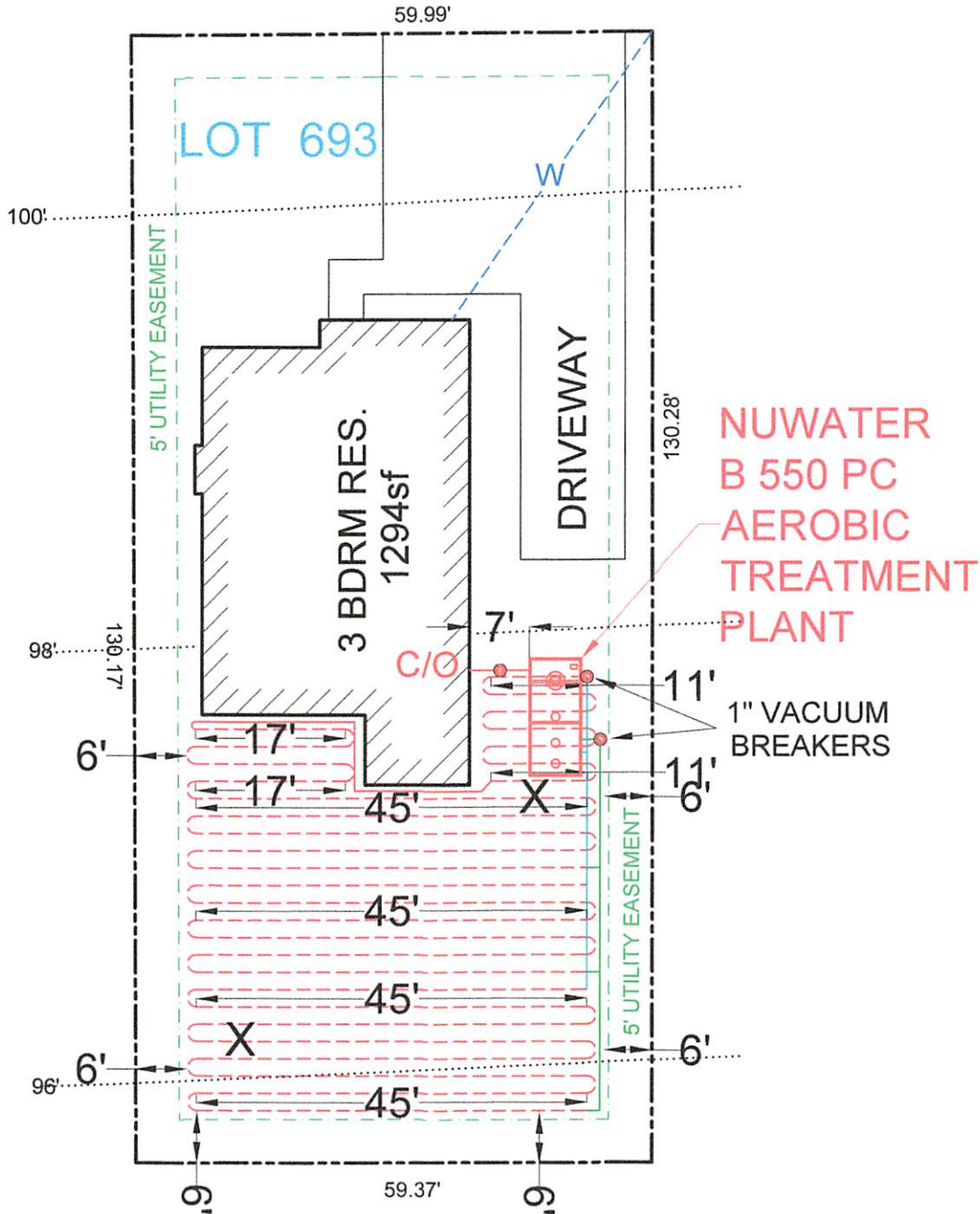


CEDAR GROVE TRAIL

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: | | DRAWN BY: EJS III | | |
| STREET ADDRESS: 1314 CEDAR GROVE TRAIL | | | | |
| LEGAL DESC: CYPRESS COVE (REPLAT & EXTENSION OF) | UNIT/SECTION/PHASE: 9 | BLOCK: | LOT: 693 | |
| PREPARED BY: GREG W. JOHNSON, P.E. F#002585 | SCALE: 1"=20' | DATE: 1/21/2022 | REVISED: | |

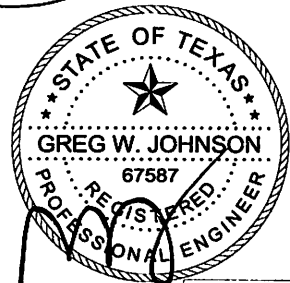
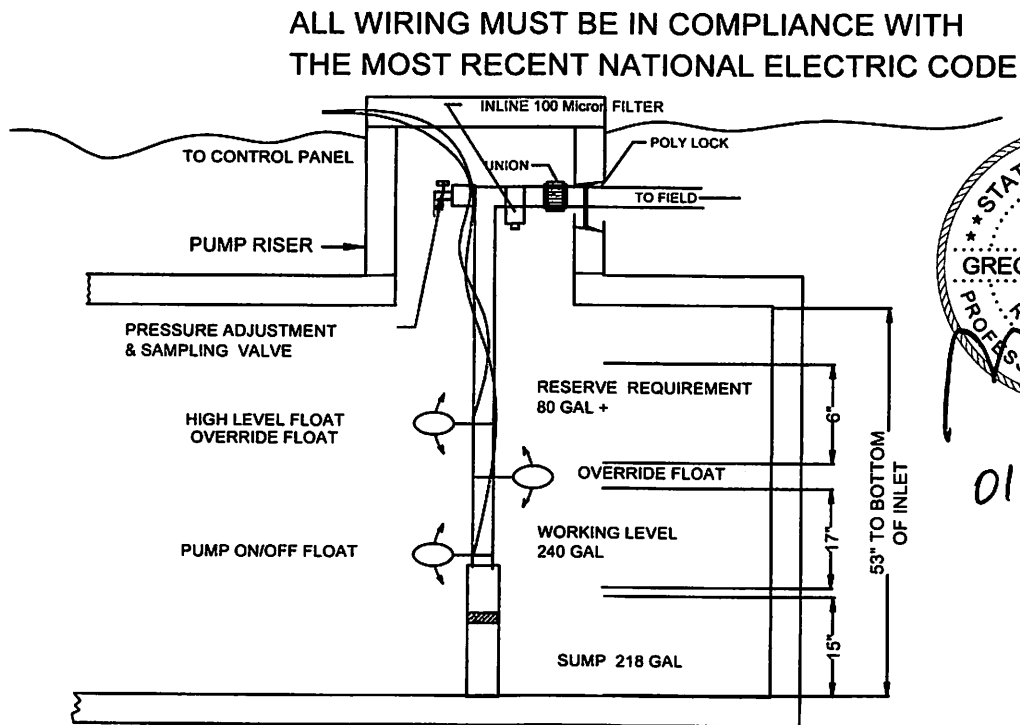
TANK NOTES:

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



F-2585
01/21/2022

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

Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

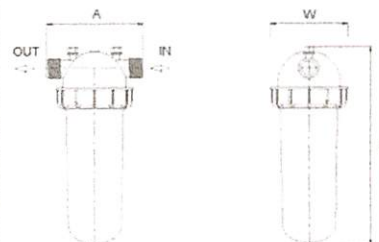
Features

- ◆ 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

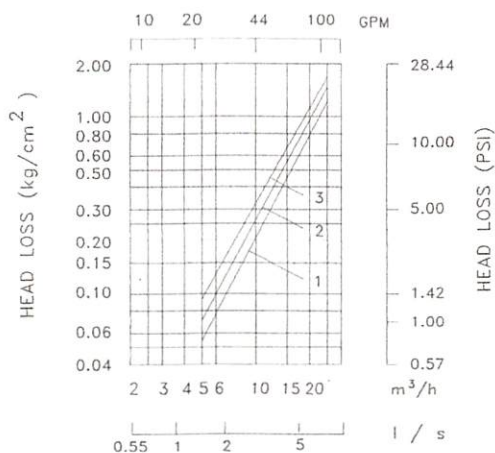
| Inlet/outlet diameter | 1" BSPT (male) | 1" NPT (male) |
|------------------------------------|---------------------------------|----------------------|
| | 25.0 mm – nominal diameter | |
| | 33.6 mm – pipe diameter (O. D.) | |
| Maximum pressure | 10 atm | 145 psi |
| Maximum flow rate | 8 m ³ /h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



Filtration Grades

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

Head Loss Chart



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

The pressure regulator shall be capable of operating at a constant, factory preset, non-adjustable outlet pressure of 6, 10, 12, 15, 20, 25, 30, 35, 40, 50, or 60 PSI (0.41, 0.69, 0.83, 1.03, 1.38, 1.72, 2.07, 2.41, 2.76, 3.45, or 4.14 bar) with a flow range between:

- 4 - 16 GPM (909 - 3634 L/hr) for 6 - 10 PSI models or
- 2 - 20 GPM (454 - 4542 L/hr) for 12 - 60 PSI models.

The pressure regulator shall maintain the nominal pressure at a minimum of 5 PSI (0.34 bar) above model inlet pressure and a maximum of 80 PSI (5.52 bar) above nominal model pressure*. Refer to the PRU performance curve to establish specific outlet pressures based on relative inlet pressure and flow rate. Always install downstream from all shut off valves. Recommended for outdoor use only. Not NSF certified.

All pressure regulator models shall be equipped with one of these inlet-x-outlet configurations:

Inlet

- 3/4-inch Female National Pipe Thread (FNPT)
- 1-inch Female National Pipe Thread (FNPT)
- 1-inch Female British Standard Pipe Thread (FBSPT)

Outlet

- 3/4-inch Female National Pipe Thread (FNPT)
- 1-inch Female National Pipe Thread (FNPT)
- 1-inch Female British Standard Pipe Thread (FBSPT)

The upper housing, lower housing, and internal molded parts shall be of engineering-grade thermoplastics with internal elastomeric seals and a reinforced elastomeric diaphragm. Regulation shall be accomplished by a fixed stainless steel compression spring, which shall be enclosed in a chamber isolated from the normal water passage.

Outlet pressure and flow shall be clearly marked on each regulator.

The pressure regulator shall carry a two-year manufacturer's warranty on materials, workmanship, and performance. Each pressure regulator shall be water tested for accuracy before departing the manufacturing facility.

The pressure regulator shall be manufactured by Senninger Irrigation in Clermont, Florida. Senninger is a Hunter Industries Company.

Physical

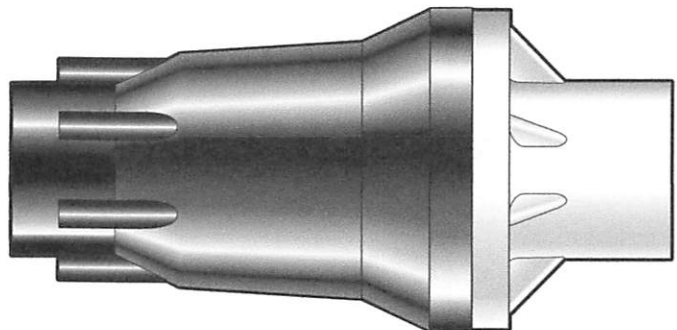
3/4" FNPT x 3/4" FNPT model (shown on right)

- Overall Length 5.2 inches (13.1 cm)
- Overall Width 2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

1" FBSPT x 1" FBSPT model

- Overall Length 5.8 inches (14.6 cm)
- Overall Width 2.5 inches (6.4 cm)



* Please consult factory for applications outside of recommended guidelines.



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

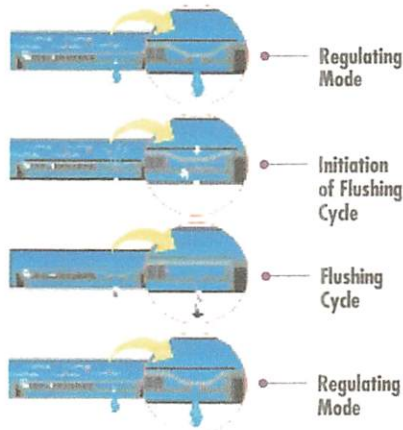
Model Numbers

| Model # | Flow Range | Preset Operating Pressure | Maximum Inlet Pressure |
|-----------|---------------------------------|---------------------------|------------------------|
| PMR-6 MF | 4 - 16 GPM (909 - 3634 L/hr) | 6 PSI (0.41 bar) | 80 psi (5.51 bar) |
| PMR-10 MF | 4 - 16 GPM (909 - 3634 L/hr) | 10 PSI (0.69 bar) | 90 psi (6.20 bar) |
| PMR-12 MF | 2 - 20 GPM (454 - 4542 L/hr) | 12 PSI (0.83 bar) | 90 psi (6.20 bar) |
| PMR-15 MF | 2 - 20 GPM (454 - 4542 L/hr) | 15 PSI (1.03 bar) | 95 psi (6.55 bar) |
| PMR-20 MF | 2 - 20 GPM (454 - 4542 L/hr) | 20 PSI (1.38 bar) | 100 psi (6.89 bar) |
| PMR-25 MF | 2 - 20 GPM (454 - 4542 L/hr) | 25 PSI (1.72 bar) | 105 psi (7.24 bar) |
| PMR-30 MF | 2 - 20 GPM (454 - 4542 L/hr) | 30 PSI (2.07 bar) | 110 psi (7.58 bar) |
| PMR-35 MF | 2 - 20 GPM (454 - 4542 L/hr) | 35 PSI (2.41 bar) | 115 psi (7.93 bar) |
| PMR-40 MF | 2 - 20 GPM (454 - 4542 L/hr) | 40 PSI (2.76 bar) | 120 psi (8.27 bar) |
| PMR-50 MF | 2 - 20 GPM (454 - 4542 L/hr) | 50 PSI (3.45 bar) | 130 psi (8.96 bar) |
| PMR-60 MF | 2 - 20 GPM (454 - 4542 L/hr) | 60 PSI (4.14 bar) | 140 psi (9.65 bar) |



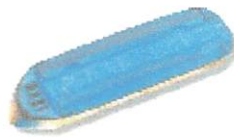
Bioline® Dripperline

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

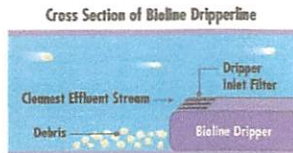
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

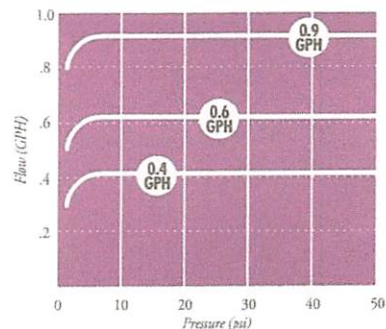
Recommended filtration: 120 mesh

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

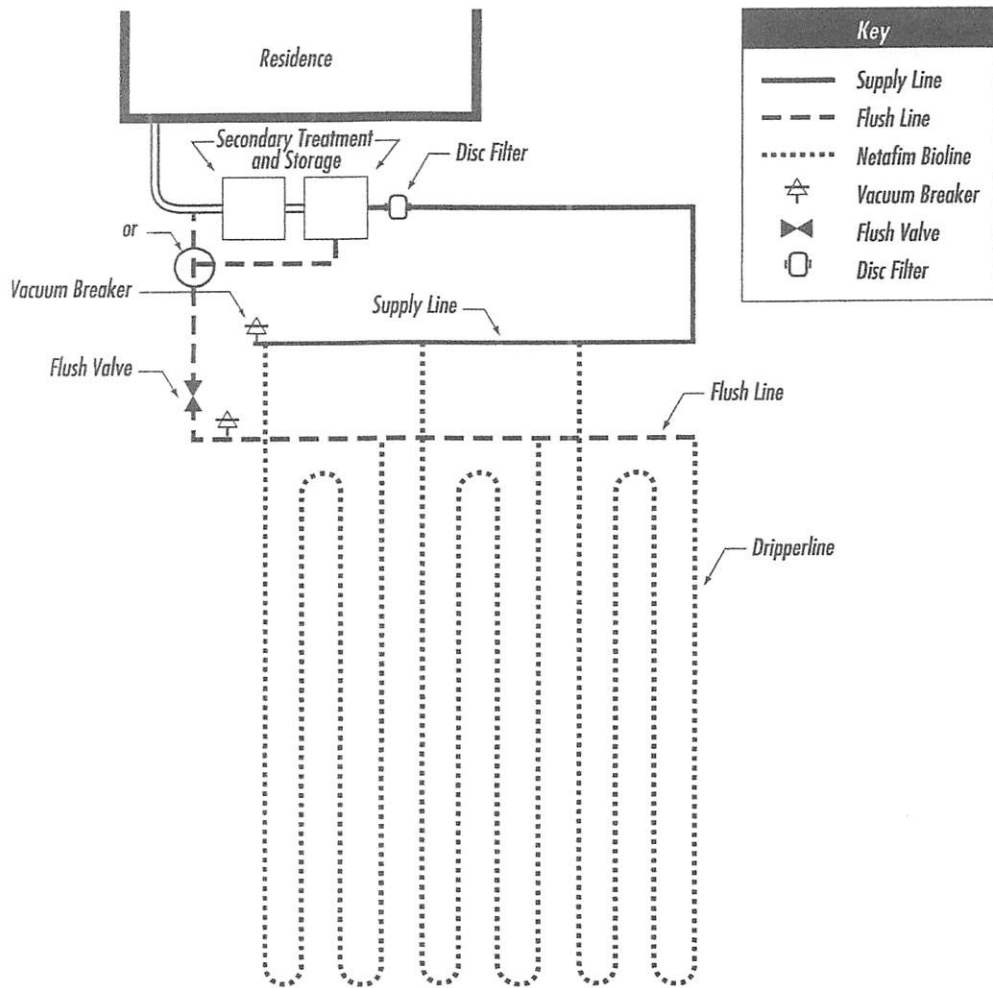
NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

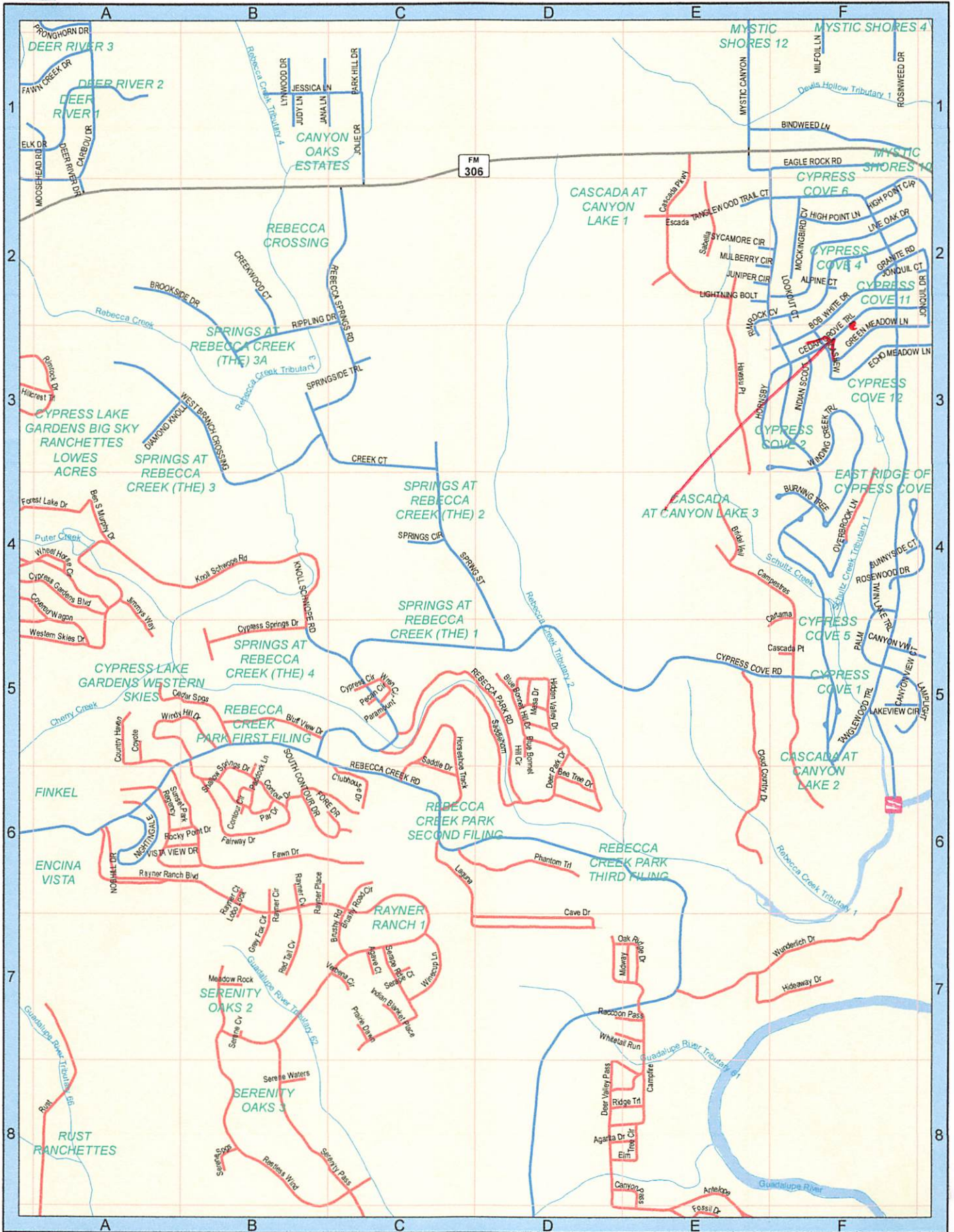
SAMPLE DESIGNS

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





SEE PAGE 17



0 1,250 2,500
Feet

0 0.25 0.5
Miles

CORRECTION INSTRUMENT AS TO A RECORDED ORIGINAL INSTRUMENT

[Non-material correction pursuant to §5.028, Texas Property Code, where the parties to the recorded original instrument have not signed the correction affidavit (instrument)]

FILED BY
ALAMO TITLE
ALAMO TITLE
gf # 770001210 5389 CL

Date: January 5, 2022
GF No: 4000082105389
Title Company: Alamo Title Company
Affiant: Laura

Description of Original Instrument (include name of instrument, date, parties and recording information):
General Warranty Deed

Dated: January 4, 2022 Recorded: January 5, 2022
Grantor: FP Construction, LLC, a Texas limited liability company
Grantee: Guerdon, Lucra, & Mammon, LLC, dba Modern Country Homes, a Texas limited liability company
Recorded Document: 202206000575 of the Official Public Records of Comal County, Texas

Affiant on oath swears that the following statements are true and within the personal knowledge of Affiant:

1. My name is Laura Rauch. My address is 434 N. Loop 1604 W., Ste. 2208, San Antonio, Texas, 78232. I am over the age of eighteen (18) years and am otherwise competent to make this Correction Affidavit.
2. I am employed as an escrow officer of the Title Company. I closed the transaction relating to the Original instrument and have personal knowledge of the facts relevant to the correction of the Original instrument.
3. I am making this Affidavit as a correction instrument pursuant to §5.028 of the Texas Property Code, with regard to the following clerical error in the Original Instrument (describe error below):

General Warranty Deed was recorded with wrong lot number (Lot 694)

4. The Original Instrument should correctly read as follows with respect to the clerical error described above, this being a non-material change to the Original Instrument (Insert corrected language below):

Lot 693, of a Replat and Extension of Cypress Cove, Section Nine, in Comal County, Texas, according to the map thereof recorded in Volume 2, Page 66, Map and Plat Records of Comal County, Texas

5. I have given notice of this correction of the Original instrument by sending a copy of this Correction Affidavit by email to each party to the Original Instrument, in accordance with §5.028 (d) (2) of the Texas Property Code.

AFFIANT:

Laura Rauch

STATE OF TEXAS §

COUNTY OF BEXAR §

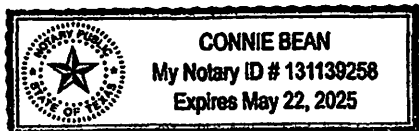
SWORN TO AND SUBSCRIBED before me on this 5th day of January, 2022, by Laura Rauch, to certify which witness my hand and seal of office.

My Commission Expires:

Connie Bean

Notary Public, State of Texas

Notary Name Printed: _____



**Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
01/05/2022 03:40:46 PM
TERRI 2 Pages(s)
202206000731**



Bobbie Koepf

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

General Warranty Deed

Date: *January*
~~December~~ 4, 2022

Grantor: FP Construction, LLC, a Texas limited liability company

Grantor's Mailing Address:

6003 Cornwall Dr.
Spring Branch, Texas 78070

Grantee: Guerdon, Lucra, & Mammon, LLC, dba Modern Country Homes, a Texas limited liability company

Grantee's Mailing Address:

17310 FM 306, Box 1
Canyon Lake, Texas 78133

Consideration:

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

Property (including any improvements):

Lot 694, of a Replat and Extension of Cypress Cove, Section Nine, in Comal County, Texas, according to the map thereof recorded in Volume 2, Page 66, Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None


Exceptions to Conveyance and Warranty:

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 2021, 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 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.

FP Construction, LLC, a Texas limited liability company,



Fred Perry, Member

STATE OF TEXAS)

COUNTY OF BEXAR)

This instrument was acknowledged before me on January 4, 2022, by Fred Perry, a Member of FP Construction, LLC, a Texas limited liability company, on behalf of said company.



Notary Public, State of Texas

My commission expires: _____

PREPARED IN THE OFFICE OF:

David L. Ricker
P. O. Box 1571
Boerne, Texas 78006
Tel: (210) 737-6097

AFTER RECORDING RETURN TO:

Alamo Title Company
434 N. Loop 1604 West, #2208
San Antonio, Texas 78232

**Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
01/05/2022 08:37:43 AM
TERRI 2 Pages(s)
202206000575**



Bobbie Koepf



COMAL COUNTY
ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION
CHECKLIST**

Staff will complete shaded items

| | |
|--|--|
| | |
|--|--|

Date Received

Initials

| |
|--------|
| 115921 |
|--------|

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

03/05/2023

Date

| |
|-----------------------------------|
| ___ COMPLETE APPLICATION |
| Check No. _____ Receipt No. _____ |

| |
|---|
| INCOMPLETE APPLICATION ___ (Missing Items Circled, Application Refeused) |
|---|

Block Creek Aerobic Services, LLC

444 A Old Hwy No 9

Comfort, TX 78013

(830) 995-3189

Owner Phone: (830) 935-2098

Guerdon, Lucra Mammon LLC

1314 Cedar Grove Trail
Canyon Lake, TX 78133

Agency: Comal County
County: Comal

Site Address: 1314 Cedar Grove Trail, Canyon Lake Permit #: 115921

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

ID: 9297

Treatment Type: Aerobic Without Chlorine Disposal Type: Drip Emitters

Insp ID: 169332

Installed: 2/24/2023

Warranty Expiration: 2/24/2025

System S/N: b59174

Visit Details

Visit Date: 1/23/2025

Entered By: Dakota

GPS Lat: 29.9360506 GPS Long: -98.3407704

Scheduled Date: 12/27/2024

Contract Starts: 8/27/2024

Entered On: 1/23/2025

Contract Ends: 8/27/2026

Visit Results

Service Type: Scheduled Inspection

Printed: 1/23/2025

Count: Inspection 1 of 6

Method: Grab

License #

Expires

Technician: Not Assigned

Provider: Rudy Carson

MP0002036

11/30/2025

Service Completed

Aerators: Operational

Sludge Level Tank 1: 0"

Filters: Operational

Sludge Level Tank 2: 14"

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

Provider:

Rudy Carson

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