

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: 03/27/2023 Permit Number: 115872

Location Description: 1616 RIMROCK CV

SPRING BRANCH, TX 78070

Subdivision: CYPRESS COVE

Unit: 10
Lot: 31
Block: 0
Acreage: 0.0000

Type of System: Aerobic

Drip Irrigation

Issued to: CR PHOENIX ENTERPRISES

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

NVIRONMENTAL HEALTH INSPECTOR

OS0032485

COORDINATIOR

| staller Name: | OSSF Installer #: | |
|----------------------|----------------------|----------------------|
| 1st Inspection Date: | 2nd Inspection Date: | 3rd Inspection Date: |
| Inspector Name: | Inspector Name: | Inspector Name: |

| Perm | it#: | | 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)(G)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) | | | | | |
| 7 | PRETREATMENT Grease Interceptors if required for commercial | | 285.34(d) | | | | | |

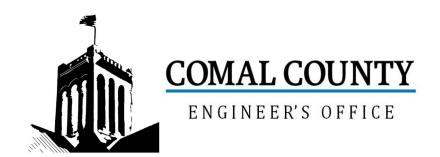
Inspector Notes:

| AL. | Di-si | Δ | Citation | N-4 | 1,41, | 2 | 2 |
|-----|---|--------|--|-------|-----------|-----------|-----------|
| No. | Description SEPTIC TANK Tank(s) Clearly | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
| 8 | Marked SEPTIC TANK If SingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and "T" Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum 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) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1) (D)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)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) | | | | |
| | 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 providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions | | 285.38(d) 285.38(e) | | | | |
| | SEPTIC TANK Tank Volume | | | | | | |
| 12 | Installed | | | | | | |
| | PUMP TANK Volume Installed | | | | | | |
| 13 | AEROBIC TREATMENT UNIT Size | | | | | | |
| 14 | | | | | | | |
| 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) | | | | |

| Succession 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) | | | | |
| | 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) | | | | |
| | 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) | | | | |
| | 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) | | | | |
| | DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media | | | | | | |
| | DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place | | 285.33(b)(1)(E) | | | | |
| | 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) | | | | |

| No. | Docorintian | Answer | Citations | Notes | 1ct lease | 2nd Inco | 2rd Inco |
|-----|---|--------|---|-------|-----------|-----------|-----------|
| NO. | Description EFFLUENT DISPOSAL SYSTEM Utilized | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
| 32 | 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) | | | | |
| | AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines. | | 285.32(c)(1) | | | | |
| | 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 | | | | | | |
| | 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 | | | | | | |
| | PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried | | | | | | |

| | 1 | | | | | | |
|-----|---|--------|--|-------|-----------|-----------|-----------|
| 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)(iii) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iii)(I) | | | | |
| | 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) | | | | |
| 41 | ADDUCATION ADDA Average tradellar | | | | | | |
| 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 | | | | | | |



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

Permit Number: 115872

Issued This Date: 03/15/2023

This permit is hereby given to: CR PHOENIX ENTERPRISES

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

1616 RIMROCK CV SPRING BRANCH, TX 78070

Subdivision: CYPRESS COVE

Unit: 10
Lot: 31
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.





ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090

WWW.CCEO.ORG

| | 10.2020 | | | Permit Nun | nher | 11 | 5872 | |
|---|--|----------------|----------------|-------------------|----------|-----------|-----------|-------------|
| Date Jar | AGENT INFORMATION | | | r emili Num | | Rei | newal | of 114014 |
| Owner Name | CR PHOENIX ENTERPRISES, LLC dba HAVENBROOK HOMES | Agen | Name | G | REG JO | HNSO | N, P.E | |
| Mailing Address | - 0 | | 170 HOLLOW OAK | | | | | |
| | CANYON LAKE TEXAS 78133 | | | NEW B | | | | 78132 |
| Phone # | 830-935-2098 | Phon | | | | 905-277 | | |
| Email | lars@havenbrooktx.com | - Emai | | greg | gjohnson | ipe@ya | hoo.cor | n |
| 2. LOCATION | | 3) | _ | | | | | |
| Subdivision Nam | e CYPRESS COVE | | Un | it SEC 10 | Lot | 31 | Bloc | ck |
| Survey Name / A | bstract Number | | | , | Ac | reage | | |
| | 1616 RIMROCK COVE | | | RANCH | | | | |
| 3. TYPE OF DEV | | - | | | | | | |
| Single Fam | ily Residential | | | | | | | |
| Type of Co | onstruction (House, Mobile, RV, Etc.) | | HOUSE | | | | | |
| | Bedrooms 3 | | | | | | | |
| Indicate S | q Ft of Living Area 1314 | | | | | | | |
| Non-Single | Family Residential | | | | | | | |
| (Planning m | aterials must show adequate land area for doublir | ng the requir | ed land neede | ed for treatme | nt units | and disp | osal are | ea) |
| Type of Fa | cility | | | | | | | |
| Offices, Fa | actories, Churches, Schools, Parks, Etc Ind | dicate Numb | er Of Occup | oants | | | | |
| Restauran | ts, Lounges, Theaters - Indicate Number of S | Seats | | | | | | |
| Hotel, Mot | el, Hospital, Nursing Home - Indicate Numbe | er of Beds_ | | | | | | |
| Travel Tra | iler/RV Parks - Indicate Number of Spaces _ | | | | | | 2 | |
| | eous | | | | | | | |
| | | | | | | | | |
| Estimated Cos | et of Construction: \$250,000 | _ (Structur | e Only) | | | | | |
| Is any portion | of the proposed OSSF located in the United | States Arm | y Corps of E | ingineers (U | SACE) | flowage | e easer | ment? |
| Yes X | No (If yes, owner must provide approval from USACE | for proposed | OSSF improve | ements within the | he USAC | ∃ flowag | e easem | ent) |
| Source of Wat | er 🔀 Public 🗌 Private Well 🔲 Rainwa | ter Collection | | | | | | |
| 4. SIGNATURE | OF OWNER | | | | | | | |
| - The completed a | olication, I certify that: pplication and all additional information submitted at I am the property owner or I possess the approp | | | | | | | |
| Authorization is h site/soil evaluation | nereby given to the permitting authority and design on and inspection of private sewage facilities a permit of authorization to construct will not be is | | | | | | | |
| by the Comal Co | unty Flood Damage Prevention Order. | | 0.10 | | | | | |
| | nsent to the online posting/public release of my e- | man address | 1101 | | applicat | ion, as i | applicati | Jie. |
| Signature of O | wner | | ate | 1012 | | _ | | Page 1 of 2 |

Revised July 2018

* * * 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 Comple | eted By GREG W. JOHNSON, P.E. | <u> </u> |
|---|---|---|-------------------------------|
| System Description | PROPRIETARY; | AEROBIC TREATMENT AND DRIP TU | IBING |
| Size of Septic System Rec | quired Based on Planning Mater | ials & Soil Evaluation | |
| Tank Size(s) (Gallons) | NUWATER B-550-PC | Absorption/Application Area (Sq Ft) | 2000 |
| | TCEQ Table III) 240 5000 gallons per day are required t | o obtain a permit through TCEQ) | |
| (If yes, the planning material | | ed Sanitarian (R.S.) or Professional Engineer (| P.E.)) |
| _ | approved WPAP for the propert | ty? ☐ Yes | |
| If there is no existing WPA (If yes, the R.S. or P. E. shall | AP, does the proposed developm | nent activity require a TCEQ approved Wi omply with all provisions of the proposed WPA has been approved by the appropriate regiona | P. A Permit to Construct will |
| is the property located over | er the Edwards Contributing Zon | e? 🛛 Yes 🔲 No | |
| Is there an existing TCEQ | approval CZP for the property? | ☐ Yes 🔀 No | |
| (if yes, the P.E. or R.S. shall | certify that the OSSF design compli | ies with all provisions of the existing CZP) | |
| (if yes, the P.E. or R.S. shall | certify that the OSSF design will con | nt activity require a TCEQ approved CZP nply with all provisions of the proposed CZP. A approved by the appropriate regional office.) | Permit to construct will) |
| ls this property within | an incorporated city? 🔲 Ye | es No | D. |
| If yes, indicate the city | /: | GREG W. JOHNS 67587 OREGISTERE | FIRM #2585 |
| | | r | 11411 #2000 |
| | ove is true and correct to the best of | my knowledge. e-mail address associated with this permit applic | ation, as applicable |
| Signature of Designer | | January 20, 2022 | Dago 2 of 2 |
| Signature of Designer | | Dale | Page 2 of 2 |

195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

Bobbu Koepp

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.

1

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.

П

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):

| | §285.91(12) will be instal | led on the property | described as (ins | ert legal description): | |
|------|--|----------------------------|---|---|----------------------------------|
| 10 | UNIT/PHASE/SECTION | BLOCK31 | LOT | CYPRESS COVE | SUBDIVISION |
| IF N | OT IN SUBDIVISION: | ACREAGE _ | | | SURVRY |
| | The property is owned by | (insert owner's ful | l name):CR PH | OENIX ENTERPRISES, LLC, di | a Havenbrook Homes |
| | the initial two-year servic | e policy, the owner | of an aerobic tre | ntract for the first two years. A atment system for a single fami I days or maintain the system | After |
| | Upon sale or transfer of transferred to the buyer of obtained from the Comal | r new owner. A coj | ry of the plannin | rmit for the OSSF shall be g materials for the OSSF can t | 96 |
| | WITNESS BY HAND(S) | ON THIS 27 DA | Y OF | uary ,20 22 | |
| | Owner(s) signature(s) | | CHA Owner (s) | D RUTTEN - MANO | <u> </u> |
| | CHAD RUTTES | swor | • | SCRIBED BEFORE ME ON T | HIS 27 DAY OF |
| | Notary Public Sig | nature | | Filed and Reco Official Public Bobbie Koepp | |
| | GREG W. JO Notery Public, St Comm. Expires Notary ID 12 | ate of Texas 06-17-2022 | | Comal County 02/07/2022 03 LAURA 1 P: 202206005722 | r, Texas :23:30 PM ages(s) |
| | | | | | |

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 CR PHOENIX ENTERPRISES, LLC Site Address 1616 RIMROCK COVE City SPRING BRANCHZip 78070 Mailing Address 17310 FM 306, Box 1, C.L. TX 78133 County COMAL Map # CCEO 16 F2 Phone 830-935-2098 Email lars@havenbrooktx.com SUBDIVISION/LEGAL: CYPRESS COVE, SECTION 10, LOT 31 |
|---|---|
| LLC. By this agreement, Block Creek Aerobic Service | Ferred to as "Agreement") is entered into by and between er referred to as "Customer") and Block Creek Aerobic Services, ees, LLC and its employees (hereinafter inclusively referred to as stated above, as described herein, and the Customer agrees to fulfill |
| Customer shall notify the Contractor within two (2) commencement. If no notification is received by Contractor unty authority mandates, the date of commencement will be contracted by Contractor within two (2) commencements. | year (thereafter). If this is an initial agreement (new installation), the business days of the system's first use to establish the date of stor within ninety (90) day::s after completion of installation or where II be the date the "License to operate" (Notice of Approval) was issued on not commence at the same time as any warranty period of installed anty. |
| party to perform in accordance with the terms of this terminating party must provide written notice to the not Agreement. If this Agreement is terminated, Contractor of the compensation has not been received. After the prepayment for services will be refunded to customer we terminating this Agreement for any reason, including not | arty for any reason, including for example, substantial failure of either Agreement, without fault or liability of the terminating party. The in-terminating party thirty (30) days prior to the termination of this will be paid at the rate of \$75.00 per hour for any work performed and he deduction of all outstanding charges, any remaining monies from in inthirty (30) days of termination of this Agreement. Either party in-renewal, shall notify in writing the equipment manufacturer and the tys prior to the date of such termination. Nonpayment of any kind shall ract. |
| recommended by the treatment system manufactor visits to site per year. The list of items check Aeration including compressor and diffusers, C and anything else required as per the manufacture b. Provide a written record of visits to control panel. c. Repair or replace, if Contractor has | o on the On-Site Sewage Facility (hereinafter referred to as OSSF) as turer, and required by state and/or local regulation, for a total of three ted at each visit shall be the: control panel, Electrical circuits, timer, FM/PSI measured, lids safety pans, pump, compressor, sludge levels, etc. o the site by means of an inspection tag attached to or contained in the the necessary materials at site, any component of the OSSF found to be time monitoring visit. If such services are not covered by warranty, and |

e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.



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).

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:

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

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

VIII. Customer's Responsibilities:

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

- a. Provide all necessary yard or lawn maintenance and removal of all obstacles, including but not limited to dogs and other animals, vehicles, trees, brush, trash, or debris, as needed to allow the OSSF to function properly, and to allow Contractor safe and easy access to all parts of the OSSF.
 - b. Protect equipment from physical damage including but not limited to that damage caused by insects.
- c. Maintain a current license to operate, and abide by the conditions and limitations of that license, and all requirements for and OSSF from the State and/or local regulatory agency, whichever requirements are more stringent, as well as the proprietary system's manufacturer recommendations.
- d. Notify Contactor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.
- e. Provide, upon request by Contractor, water usage records for the OSSF so that the Contractor can perform a proper evaluation of the performance of the OSSF.
- f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluating the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section IV (d) above, Customer agrees to pay Contractor for the sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing.
 - g. Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.
- h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.
- i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at Customer's expense.
 - j. Maintain site drainage to prevent adverse effects on the OSSF.
 - k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

IX. Access by Contractor:

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

X. Limit of Liability:

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

XI. Indemnification:

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



BS

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

THIS INDEMNITIFCATION 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 Signature

BS

copyright all rights reserved

ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

| Date Soil Survey Performed: _ | January 19, 2022 | |
|-------------------------------|------------------|---|
| Site Location: | | CYPRESS COVE, SECTION 10, LOT 31 |
| Proposed Excavation Depth: | N/A | |
| | - | rmed 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.

| Depth (Feet) | Texture Class | Soil Texture | Gravel Analysis | Drainage (Mottles/ Water Table) | Restrictive Horizon | Observations |
|------------------|------------------|-----------------|--------------------|---------------------------------------|------------------------|--------------|
| 0 1 2" | Ш | CLAY LOAM | N/A | NONE OBSERVED | LIMESTONE @ 2" | BROWN |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

| SOIL BORING | NUMBER SURI | FACE EVALUAT | ION | | | |
|-----------------|------------------|-----------------|--------------------|---------------------------------------|------------------------|--------------|
| Depth (Feet) | Texture Class | Soil Texture | Gravel Analysis | Drainage (Mottles/ Water Table) | Restrictive Horizon | Observations |
| 0 | SAME | | AS | | ABOVE | |
| 3 | | | | | | |
| 5 | | | | | | |

01/19/2022

| I certify that the | findings of this | report are base | ed on my field | l observations and | d are accurate to |
|--------------------|------------------|-----------------|----------------|--------------------|-------------------|
| the hest of my al | sility | | | | |

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

OSSF SOIL EVALUATION REPORT INFORMATION

| Name: CR PHOENIX ENTERPRISES, LLC. dba HAVENBROOK HOMES Address: 17310 F.M. 306 BOX 1 City: CANYON LAKE State: TEXAS Zip Code: 78133 Phone: (830) 935-2098 Property Location: Installer Information: Lot 31 Unit 10 Blk Subd. CYPRESS COVE Name: Company: City: SPRING BRANCH Zip Code: 78070 Address: City: SPRING BRANCH Zip Code: 78070 Address: City: State: Texas City: SPRING BRANCH Zip Code: 78070 Address: City: State: State: Texas City: SPRING BRANCH Zip Code: 78070 Address: City: State: State: State: Texas City: SPRING BRANCH Zip Code: 78070 Address: City: State: | Date: January 20, 2022 | | |
|--|---|------------------------|-----------------------------|
| Address: 17310 F.M. 306 BOX 1 City: CANYON LAKE State: TEXAS Zip Code: 78133 Phone: (830) 935-2098 Property Location: | Applicant Information: | Site Evaluator Info | rmation: |
| Address: 17310 F.M. 306 BOX 1 City: CANYON LAKE State: TEXAS Zip Code: 78133 Phone: (830) 935-2098 Property Location: | Name: CR PHOENIX ENTERPRISES, LLC. dba HAVENBROOK HOMES | Name: Greg W. Joh | nson, P.E., R.S, S.E. 11561 |
| City: CANYON LAKE State: TEXAS Zip Code: 78133 Phone: (830) 935-2098 Zip Code: 78132 Phone & Fax (830) 905-2778 Property Location: Installer Information: Lot 31 Unit 10 Blk Subd. CYPRESS COVE Name: Street Address: 1616 RIMROCK COVE Company: City: SPRING BRANCH Zip Code: 78070 Address: Additional Info.: City: State: Zip Code: Phone Topography: Slope within proposed disposal area: 2 % 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 | Address: 17310 F.M. 306 BOX 1 | | |
| Property Location: Installer Information: Name: Street Address: 1616 RIMROCK COVE Company: City: SPRING BRANCH Zip Code: 78070 Address: Zip Code: Phone State: Zip Code: Phone Phone Copography: Slope within proposed disposal area: 2 % YES NO X No X Presence of 100 yr. Flood Zone: YES NO X Presence of upper water shed YES NO X YES | | City: New Braunf | els State: Texas |
| Lot 31 Unit 10 Blk Subd. CYPRESS COVE Name: Street Address: 1616 RIMROCK COVE Company: City: SPRING BRANCH Zip Code: 78070 Address: Additional Info.: City: State: Zip Code: Phone Copography: Slope within proposed disposal area: 2 % 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 | | Zip Code: <u>78132</u> | Phone & Fax (830)905-2778 |
| Street Address: 1616 RIMROCK COVE Company: City: SPRING BRANCH Zip Code: 78070 Address: Zip Code: Zip Code: Zip Code: Zip Code: Phone Zip Code: Phone Zip Code: Phone Zip Code: Phone Zip Code: Phone Zip Code: YES NO X Zip Code: | Property Location: | Installer Infor | mation: |
| Street Address: 1616 RIMROCK COVE Company: City: SPRING BRANCH Zip Code: 78070 Address: City: State: Zip Code: Phone Copography: Slope within proposed disposal area: 2 | | Name: | |
| City: SPRING BRANCH Zip Code: 78070 Address: Additional Info.: City: State: Zip Code: Phone Copography: Slope within proposed disposal area: 2 % 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 | Street Address: 1616 RIMROCK COVE | | |
| Additional Info.: City: | | | |
| Zip Code:Phone | | | |
| Presence of 100 yr. Flood Zone: Existing or proposed water well in nearby area. Presence of adjacent ponds, streams, water impoundments YES NO X YES NO X YES NO X YES NO X | | | |
| Existing or proposed water well in nearby area. Presence of adjacent ponds, streams, water impoundments Presence of upper water shed YES NO X YES NO X | Topography: Slope within proposed disposal area: | 2% | |
| Presence of adjacent ponds, streams, water impoundments YES NO X Presence of upper water shed YES NO X | Presence of 100 yr. Flood Zone: | YESNO_X | _ |
| Presence of upper water shed YESNO_X | Existing or proposed water well in nearby area. | YESNO_X | ·· - |
| | Presence of adjacent ponds, streams, water impoundments | YESNO_X | _ |
| | Presence of upper water shed | YESNO_X | _ |
| | | TITO | - |
| | | | • |

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

GREG W. JOHNSON

67587

67587

67587

67587

67587

67587

67587

67587

DRIP TUBING SYSTEM

DESIGNED FOR:
C.R. PHOENIX ENTERPRISES, LLC
dba Havenbrook Homes
P.O. BOX 1554
CANYON LAKE, TX 78133

SITE DESCRIPTION:

Located in Cypress Cove, Section 10, Lot 31, at 1616 Rimrock Cove, the proposed system will serve a three bedroom residence (1314sf.) 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, 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

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

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

MSV = 1.5 gpm MIN FLOW RATE x 3 = 4.5 gpm

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$

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

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

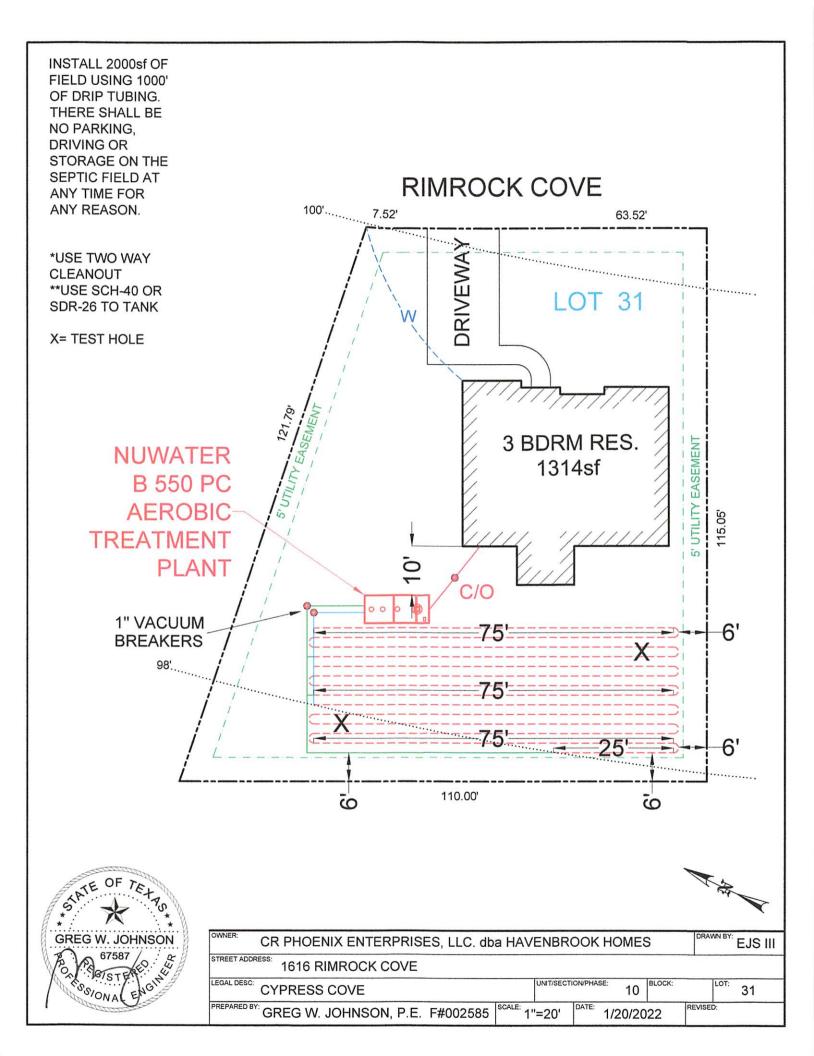
01/10/2012

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778





TANK NOTES:

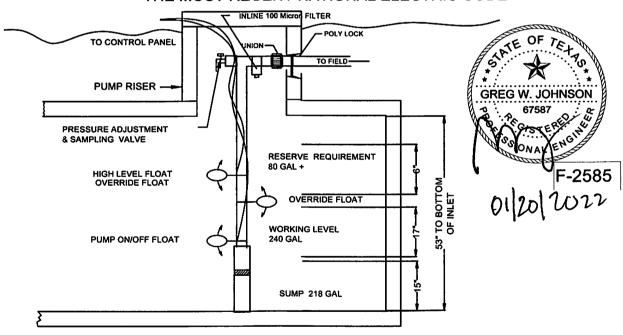
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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

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



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

Arkal 1" Super Filter

Catalog No. 1102 0___

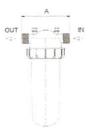
Features

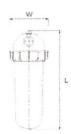
- A "T" shaped filter with two 1" male threads.
- A "T" volume filter for in-line installation on 1" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- · Manufactured entirely from fiber reinforced plastic.
- · A cylindrical column of 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

| | 1" BSPT (male) | 1" NPT (male) |
|------------------------------------|---------------------------------|----------------------|
| Inlet/outlet diameter | 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 |
| рН | 5-11 | 5-11 |





Filtration Grades

Blue (400 micron / 40 mesh)

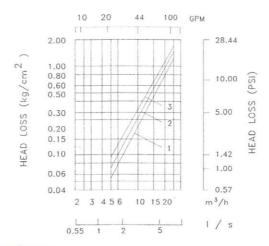
Yellow (200 micron / 80 mesh)

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 Outlet

34-inch Female National Pipe Thread (FNPT) 3/4-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

1-inch Female National Pipe Thread (FNPT) 1-inch Female British Standard Pipe Thread (FBSPT) 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.

2.5 inches (6.4 cm)

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

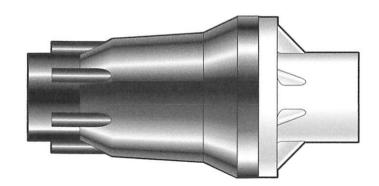
3/4" FNPT x 3/4" FNPT model (shown on right)

Overall Length 5.2 inches (13.1 cm) Overall Width

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

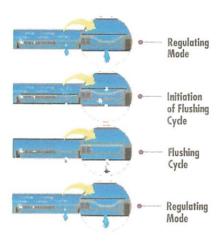
Model Numbers

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

NETAFIM*

Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



BioLine's Self-Cleaning, Pressure Compensating Dripper is a fully selfcontained 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.

Cross Section of Bioline Dripperline



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

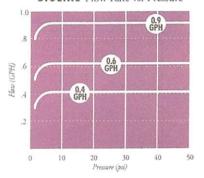
Inside diameter: .570*

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





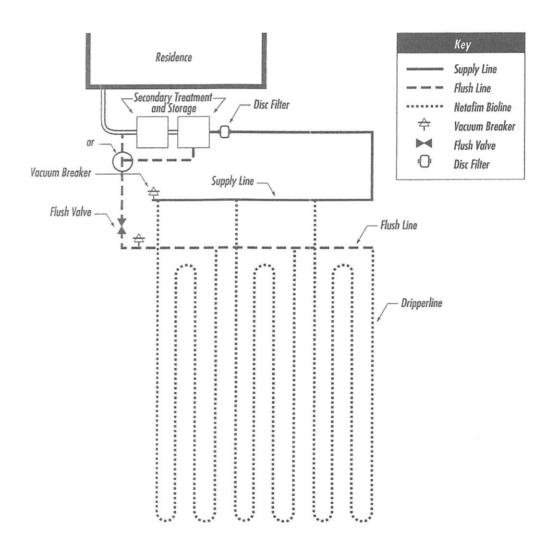
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

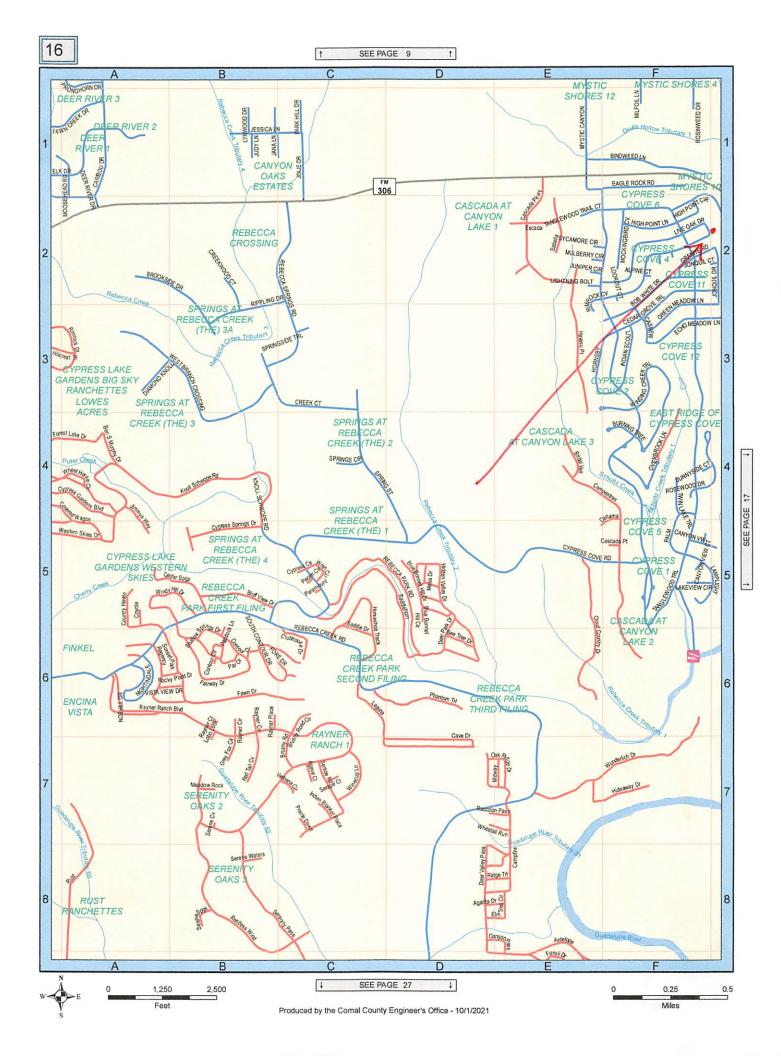
SAMPLE DESIGNS

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





Alamo Title Company 4000082105408 LR

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: December 30, 2021

Grantor: Jim Sitgreaves

Grantor's Mailing Address:

334 Padre Blvd

South Padre Island, Texas 78597

Grantee: CR Phoenix

CR Phoenix Enterprises, LLC dba Havenbrook Homes, a Texas limited liability company

Grantee's Mailing Address:

17310 FM 306, Box 1 Canyon Lake, Texas 78133

Consideration:

¹Cash and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.

Property (including any improvements):

Lots 30 and 31, CYPRESS COVE, SECTION TEN, an addition in Comal County, Texas, according to plat thereof recorded in Volume 2, Page 67, Map and Plat Records, Comal County, Texas.

Reservations from Conveyance:

¹ 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.

POOR QUALITY

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

Jim Sitgreaves

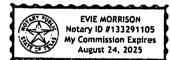
STATE OF TEXAS

COUNTY OF BEXAR

This instrument was acknowledged before me on December

2021, by Jim

Sitgreaves.



Notary Public, State of Texas My commission expires:

1/24/25

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 Koepp, County Clerk
Comal County, Texas
12/30/2021 03:06:24 PM
CSCHUL 2 Pages(s)
202106066652







OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

115872

Date Received Initials Permit Number

Date Received Initials 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. 02/24/2023 Date Signature of Applicant COMPLETE APPLICATION INCOMPLETE APPLICATION (Missing Items Circled, Application Refeused) Check No. Receipt No.

Revised: September 2019

Block Creek Aerobic Services, LLC

444 A Old Hwy No 9 Comfort, TX 78013

Printed:5/22/2024

Permit: 115872

(830) 995-3189

Site: 1616 Rim Rock Cove, Spring Branch, TX 78070

Philip Banks 1616 Rim Rock Cove Spring Branch, TX 78070

Agency: Comal County County: Comal

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

Treatment Type: Aerobic Without Chlorine Disposal Type: Drip Emitters

Customer ID: 8878 Insp ID: 158289

Installed: 2/15/2023 Visit Details

Warranty Expiration: 2/15/2025

System S/N: 58650

Visit Date: 5/22/2024

Entered By: Jacob Williams

Contract Starts: 9/3/2023

GPS Lat: 29.94079 GPS Long: -98.33732

Scheduled Date: 5/3/2024 Entered On: 5/22/2024

Time Out: 10:57

Contract Ends: 9/3/2025

Visit Results

Service Type: Scheduled Inspection

Count: Inspection 2 of 6

Method: Grab

License #

Expires

Technician: Jacob Williams

Provider: Rudy Carson

MT0002672 MP0002036

11/30/2025

Service Completed

Sludge Level Tank 1: n/a Sludge Level Tank 2: n/a Sludge Level Tank 3: n/a

could not inspect due to larger german shepard in backyard where the system is. Home owner not hom to put dog in house. Could not access system.

Provider:

Rudy Carson

Technician: Jacob Williams

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

License: Number: MT0002672 Exp:

Block Creek Aerobic Services, LLC

444 A Old Hwy No 9 Comfort, TX 78013

(830) 995-3189

Owner Phone: (512) 648-9824

Philip Banks 1616 Rim Rock Cove Spring Branch, TX 78070

Agency: Comal County

County: Comal

Site Address: 1616 Rim Rock Cove, Spring Branch Permit #: 115872

System Info: MFG: Advantage Wastewater LLC

Brand: Nu Water

Customer ID: 8878

Treatment Type: Aerobic Without Chlorine

Disposal Type: Drip Emitters

Insp ID: 166146

Installed: 2/15/2023 Visit Details

Warranty Expiration: 2/15/2025

System S/N: 58650

Visit Date: 11/14/2024

Entered By: Ronnie W Krampota

Contract Starts: 9/3/2023

GPS Lat: 29.94079 GPS Long: -98.33732

Scheduled Date: 1/3/2025 Entered On: 11/14/2024

Time In: 250pm Time Out: 315pm

Contract Ends: 9/3/2025

Visit Results Service Type: Customer Request

Printed:11/14/2024

Method: Grab

License #

Expires

Technician: Ronnie W Krampota

MT0001175

10/31/2026

Provider: Rudy Carson

MP0002036

11/30/2025

Service Completed

Aerators: Operationa

Filters: Operationa

Irrigation Pumps: Operationa

Disinfection Device: Operationa

Floats: OP Timer: OP

Tank Lid / Riser: Secured

Electric Circuits: Operationa

Distribution System: Operationa

Drip/Sprayfield Veg: Operationa

Alarm: Operationa

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Secured system in the on position with a lock bolt - Repaired brack in the drip line

Provider:

Rudy Carson

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

Technician: Ronnie W Krampota

License: Number: MT0001175 Exp: 10/31/2026

Block Creek Aerobic Services, LLC

444 A Old Hwy No 9 Comfort, TX 78013

(830) 995-3189

Owner Phone: (512) 648-9824

Philip Banks 1616 Rim Rock Cove Spring Branch, TX 78070

Agency: Comal County County: Comal

| Site | Address: 1616 Rim Roc | k Cove, Spring Branch Per | mit #: 115872 |
|--|----------------------------------|---------------------------|---------------------------------------|
| System Info: MFG: Advantage W | astewater LLC Brand: Nu Water | | |
| Treatment Type: Aerobic Without Ch | lorine Disposal Type: Drip Emitt | ers | ID: <u>8878</u> |
| Installed: 2/15/2023 Visit Details | Warranty Expiration: 2/15/2025 | System S/N: <u>58650</u> | Insp ID: <u>171378</u> |
| Visit Date: 2/24/2025 | Entered By: Michael | | GPS Lat: 29.94079 GPS Long: -98.3373; |
| Scheduled Date: 1/3/2025 | Time In: 350PM | Contract Starts: 9/3/2023 | 8. 20.0073 |
| Entered On: 2/24/2025 Visit Results | Time Out: 410PM | Contract Ends: 9/3/2025 | |
| Service Type: Scheduled In Count: Inspection 4 of 6 | spection | | Printed:2/24/2025 |
| Method: Grab | | | |
| Technician: Not Assigned | License # | Expires | |
| EVOVOS ENTRE | | | |
| Provider: Rudy Carson | MP0002036 | 11/30/2025 | ✓ Service Completed |
| Aerators: Operational | Sludge Level 7 | ank 1: 6 | 2 of the completed |
| Filters: Operational | Sludge Level T | | |
| Irrigation Pumps: Operational | Sludge Level T | | |
| Disinfection Device: Operational | | | |
| | | Floats: OP | |
| | | Timer: OP | |
| | Air | Filter: Good | |
| | Tank Lid / | Riser: Secured | |
| Electric Circuits: Operational Distribution System: Operational | | | |
| Drip/Sprayfield Veg: Operational | | | |
| operational | | Color: Good | |
| | | Odor: Good | |
| Alarm: Operational | | | |
| omments | | | |

Provider:

Rudy Carson

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

⁻ Technician Secured the Tank Lid and/or Riser prior to leaving location. - Secured system in the on position with a lock bolt - Cleaned compressor filter - Cleaned drip filter and back flushed drip field - Scum in pretreatment is TRACE