| staller Name: | 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) | | | | |
| | SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends) | | 285.32(a)(5) | | | | |
| 5 | 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)(C)(i) 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) 285.32(b)(1)(E)(ii)(II) | | | | |
| 7 | PRETREATMENT Grease Interceptors if required for commercial | | 285.34(d) | | | | |

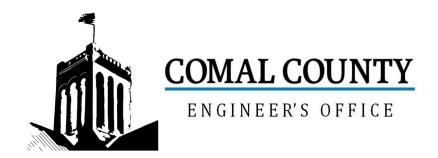
Inspector Notes:

| N- | December 41 | A may | Citotiana | Net | 1 at 1 | 2 m d 1 | 7 mal 1 |
|-----|---|--------|--|-------|-----------|-----------|-----------|
| No. | Description SEPTIC TANK Tank(s) Clearly | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
| 8 | Marked SEPTIC TANK IsingleTank, 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)(C) (ii)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) | | | | |
| 1 | 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) | | | | |
| | 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 Installed | | | | | | |
| 12 | | | | | | | |
| | PUMP TANK Volume Installed | | | | | | |
| 1 | AEROBIC TREATMENT UNIT Size Installed | | | | | | |
| 14 | | | | | | | |
| | AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number | | | | | | |
| 15 | 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) | | | | |
| 18 | | | 203.33(a)(2) | | | | |

| | _ , . | | | - - | | | |
|-----|---|--------|--|--------|-----------|-----------|-----------|
| No. | Description | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
| 19 | DISPOSAL SYSTEM Drip Irrigation | | 285.33(c)(3)(A)-(F) | | | | |
| 20 | DISPOSAL SYSTEM Soil Substitution | | 285.33(d)(4) | | | | |
| 21 | DISPOSAL SYSTEM Pumped Effluent | | 285.33(a)(4) 285.33(a)(3) 285.33(a)(1) 285.33(a)(2) | | | | |
| 22 | DISPOSAL SYSTEM Gravelless Pipe | | 285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1) | | | | |
| 23 | DISPOSAL SYSTEM Mound | | 285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4) | | | | |
| 24 | DISPOSAL SYSTEM Other (describe) (Approved Design) | | 285.33(d)(6) 285.33(c)(4) | | | | |
| | DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC | | | | | | |
| 26 | DRAINFIELD Area Installed | | | | | | |
| | 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) | | | | |
| | LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches | | 285.33(d)(1)(C)(i) | | | | |

| T | | _ | | | | | |
|-----|---|--------|---|-------|-----------|-----------|-----------|
| No. | Description | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
| 32 | EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart | | 285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F) | | | | |
| | 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 | | | | | | |
| | 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 | | | | | | |

| | • | | | | | | |
|-----|---|--------|---|-------|-----------|-----------|-----------|
| No. | Description | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
| | 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)(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) | | | | |
| | APPLICATION AREA Area Installed | | | | | | |
| | PUMP TANK Meets Minimum Reserve Capacity Requirements | | | | | | |
| | PUMP TANK Material Type & Manufacturer | | | | | | |
| | 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: 118274

Issued This Date: 02/20/2025

This permit is hereby given to: Havenbrook Homes of Texas, LLC

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

1420 CANYON BEND

CANYON LAKE, TX 78133

Subdivision: Canyon Lake Forest

Unit: 2

Lot: 959

Block: n/a

Acreage: 0.1700

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Drip Irrigation

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

Call (830) 608-2090 to schedule inspections.





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

Initials

118274

Permit Number

| Instructions: | |
|---|---|
| Place a check mark next to all items that apply. For items that do not Checklist must accompany the completed application. | apply, place "N/A". This OSSF Development Application |
| OSSF Permit | |
| Completed Application for Permit for Authorization to Construct a | 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 of a scaled design and all system specifications. | s for OSSF Chapter 285. Planning Materials shall consist |
| Required Permit Fee - See Attached Fee Schedule | |
| Copy of Recorded Deed | |
| Surface Application/Aerobic Treatment System | |
| Recorded Certification of OSSF Requiring Maintenance/A | ffidavit to the Public |
| Signed Maintenance Contract with Effective Date as Issua | nce of License to Operate |
| I affirm that I have provided all information required for my OSSF constitutes a completed OSSF Development Application. | Development Application and that this application |
| Signature of Applicant | Date |
| COMPLETE APPLICATION Check No Receipt No | INCOMPLETE APPLICATION —— (Missing Items Circled, Application Refeused) |
| | Revised: September 2019 |

Date Received



COMAL COUNTY

ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

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

Revised January 2021

| Date <u>01/07</u> | 7/2025 | | Permit Nu | 118 mber | 274 |
|---|--|--|---|--------------------|-------------------------------------|
| 1 APPLIC | ANT / AGENT INFORMATION | | | | |
| Owner Nar | | Agent Name | John J. Haa | a DE | |
| | dress 17310 FM 306, Box 1 | Agent Address | | | |
| | | | | | |
| Phone # | Zip Canyon Lake, Texas 78133 | City, State, Zip | | | |
| | 830-935-2098 | Phone # | 210-705-420 | | |
| Email | lars@havenbrooktx.com | Email | jhaag@satx | .rr.com | |
| 2. LOCATI | | | | | B |
| | Name Canyon Lake Forest | | *************************************** | Lot <u>959</u> | |
| | me / Abstract Number | | **** | Acreage | 0.17 |
| Address _1 | 420 Canyon Bend | City Canyon Lak | ке | _ State Tx. | Zip <u>78133</u> |
| 3. TYPE O | DEVELOPMENT | | | | |
| Singl | e Family Residential | | | | |
| Туре | of Construction (House, Mobile, RV, Etc.) House | | | | |
| Num | ber of Bedrooms 3 | | | | |
| Indic | ate Sq Ft of Living Area 1294 | | | | |
| Non- | Single Family Residential | | | | |
| (Plan | ning materials must show adequate land area for doubling | the required land nee | eded for treatm | ent units and dis | posal area) |
| Туре | of Facility | | | | |
| Offic | es, Factories, Churches, Schools, Parks, Etc Indic | ate Number Of Occ | upants | | |
| | aurants, Lounges, Theaters - Indicate Number of Se | | | | |
| Hote | l, Motel, Hospital, Nursing Home - Indicate Number | of Beds | | | |
| | el Trailer/RV Parks - Indicate Number of Spaces | | | | |
| | ellaneous | | | | |
| *** | | | | | |
| Estimate | d Cost of Construction: \$ 220000 | (Structure Only) | | | |
| | ortion of the proposed OSSF located in the United St | | Engineers (l | JSACE) flowag | e easement? |
| ☐ Yes | [| | | | |
| | f Water Public Private Well | ier proposed elect impr | o vomorno vnami | and dor to E noway | ,o oddoment, |
| | URE OF OWNER | | | | |
| By signing the The complete facts. I cer | nis application, I certify that: ated application and all additional information submitted do tify that I am the property owner or I possess the appropria | oes not contain any fal ate land rights necessa | lse information ary to make the | and does not co | nceal any material ovements on said |
| | on is hereby given to the permitting authority and designat aluation and inspection of private sewage facilities. | ed agents to enter upo | on the above o | lescribed propert | y for the purpose of |
| I understar by the Con | nd that a permit of authorization to construct will not be issual County Flood Damage Prevention Order. | | | | |
| - I affirmative | ely consent to the online posting/public release of my e-ma | all address associated | with this perm | it application, as | applicable. |
| 0: : | Cultur | | 0/25 | | |
| Signature | of Owner | Date | | | Page 1 of 2 |



ON-SITE SEWAGE FACILITY APPLICATION

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

| Planning Materials & Site Evaluation as Required Completed By John J. Haag, P.E. |
|--|
| System Description Proprietary aerobic treatment with drip disposal |
| Size of Septic System Required Based on Planning Materials & Soil Evaluation |
| Tank Size(s) (Gallons) NuWater B-550 (600 gpd) Absorption/Application Area (Sq Ft) 1200 min |
| 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 No (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) |
| Is there an existing TCEQ approved WPAP for the property? ☐ Yes ☒ No |
| (If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.) |
| Is there at least one acre per single family dwelling as per 285.40(c)(1)? Yes No |
| If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes X 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 No |
| (If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.) |
| If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.) |
| Is this property within an incorporated city? Yes No |
| If yes, indicate the city: |
| |
| By signing this application, I certify that: |
| - The information provided above is true and correct to the best of my knowledge. |
| - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable. |
| (1) day, PE. 01/06/2025 |
| Signature of Designer // Date |



THE COUNTY OF COMAL

202506000938 01/10/2025 11:10:07 AM 1/1

STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

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

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

Legal Description: Lot 959, Canyon Lake Forest, Unit 2

This property is owned by: Havenbrook Homes of Texas, LLC

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

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

WITNESS BY HAND(S) ON THIS DAY OF January.

Chad Rutten (Owner)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS DAY OF TANK

CARRIE NIELSEN Notary Public, State of Texas Comm. Expires 01-30-2026 Notary ID 131429505

Notary Public, State of Texas

iled and Recorded

obbie Koepp

WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

| Regulatory Authority Comal | Permit/License Number |
|---|---|
| Block Creek Aerobic Services, LLC | Customer Havenbrook Homes of Texas, LLC |
| 444 A Old Hwy #9 | Site Address 1420 Canyon Bend |
| Comfort, TX 78013 | City Canyon Lake Zip 78133 |
| Off. (830) 995-3189 | Mailing Address 17310 FM 306, Box 1, Canyon Lake, Tx. 78133 |
| Fax. (830) 995-4051 | County Comal Map # |
| | Phone 830-935-2098 Email lars@havenbrooktx.com |
| | Elisii idisenarenaren |
| Havenbrook Homes of Texas, LLC (hereinafte LLC. By this agreement, Block Creek Aerobic Service | ter referred to as "Agreement") is entered into by and between referred to as "Customer") and Block Creek Aerobic Services, es, LLC and its employees (hereinafter inclusively referred to as stated above, as described herein, and the Customer agrees to fulfill |
| II. Effective Date: | |
| Customer shall notify the Contractor within two (2) commencement. If no notification is received by Contractor county authority mandates, the date of commencement will | 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) days after completion of installation or where I be the date the "License to operate" (Notice of Approval) was issued not commence at the same time as any warranty period of installed |
| party to perform in accordance with the terms of this atterminating party must provide written notice to the not Agreement. If this Agreement is terminated, Contractor was for which compensation has not been received. After the prepayment for services will be refunded to customer witterminating this Agreement for any reason, including non- | rty for any reason, including for example, substantial failure of either Agreement, without fault or liability of the terminating party. The n-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 the deduction of all outstanding charges, any remaining monies from thirty (30) days of termination of this Agreement. Either party perpension, shall notify in writing the equipment manufacturer and the ys prior to the date of such termination. Nonpayment of any kind shall act. |
| IV. Services: Contractor will: | |
| recommended by the treatment system manufact visits to site per year. The list of items check Aeration including compressor and diffusers, Cl and anything else required as per the manufacture | 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 ed at each visit shall be the: control panel, Electrical circuits, timer, FM/PSI measured, lids safety pans, pump, compressor, sludge levels, er. the site by means of an inspection tag attached to or contained in the |
| c. Repair or replace, if Contractor has a failing or inoperative during the course of a rout the service(s) cost less than \$100.00, Custom Customer for said service(s). When service cost supplies at the site, Contractor will notify Customust notify Contractor of arrangements to affect | the necessary materials at site, any component of the OSSF found to be the monitoring visit. If such services are not covered by warranty, and er hereby authorizes Contractor to perform the service(s) and bill so are greater than \$100.00, or if contractor does not have the necessary orner of the required service(s) and the associated cost(s). Customer repair of system with in two (2) business days after said notification. Taking of TSS and BOD on a yearly basis (commercial systems) |
| e. Forward copies of this Agreement ar f. Visit site in response to Customer's | nd all reports to the regulatory agency and the Customer. request for unscheduled services within forty-eight (48) hours of the uded) of said request. Unless otherwise covered by warranty, costs for tomer. |
| V. Disinfection: | |
| CR | RC |
| | C) 11/14/2016 |
| • | copyright |

all rights reserved

Contractor's Initials

Customer's Initials

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

VI. Electronic Monitoring:

Electronic Monitoring is not included in this Agreement.

VII. Performance of Agreement:

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

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

 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.
- Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at Customer's expense.
 - j. Maintain site drainage to prevent adverse effects on the OSSF.
 - k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

IX. Access by Contractor:

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

X. Limit of Liability:

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

XI. Indemnification:

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



RC

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,

Rudy Carson Block Creek Aerobic Services, LLC,

Customer Signature

Date

Contractor

MP# 0002036

RC

convright all rights reserved

Customer's Initials

Contractor's Initials

ON-SITE SEWAGE FACILITY (OSSF) SITE EVALUATION FORM

OWNER INFORMATION Property Owner's Full Legal Name: Havenbrook Homes of Texas, LLC

| 2. PROPERTY INFORMATION | | | | | |
|--|--------------------|------------------------------|-----------------|------------------|--------|
| City: Canyon Lake | | | Zip Code: 78133 | 3 | |
| Legal Descri | Legal Description: | | | | |
| Lot: 959 | Block: | Subdivision: Canyon Lake For | rest | Unit: 2 | Phase: |
| If not located in subdivision: Survey: | | | | | |
| | | Abstract: | | Recorded (Vol/Pg | g): |

| 3. SITE EVALUATION INFORMATION: | |
|--------------------------------------|------------------------------------|
| Name of Site Evaluator: John J. Haag | PE #: 90158 |
| Date Performed: 01/09/2025 | Proposed Excavation Depth: Surface |

4. REQUIREMENTS:

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

| Soil Profile Ho | le Number: 1 | | | | |
|-----------------|--------------|----------|----------------|-------------|----------------------------------|
| | | | Drainage | | |
| Depth | Textural | Gravel | (Mottles/Water | Restrictive | Observations |
| (ft.) | Class | Analysis | Table) | Horizon | |
| 0 | III | <30% | No | Yes | Type III to approx. 6" then hand |
| | | | | | auger refusal |
| 1 | | | | | |
| 2 | | | | | |
| | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| | | | | | |

ON-SITE SEWAGE FACILITY (OSSF) SITE EVALUATION FORM

| Soil Profile Ho | le Number | : 2 | | | |
|-----------------|-----------|----------|----------------|-------------|--------------------------------------|
| | | | Drainage | | |
| Depth | Textural | Gravel | (Mottles/Water | Restrictive | Observations |
| (ft.) | Class | Analysis | Table) | Horizon | |
| 0 | III | <30% | No | Yes | Type III to 16" then terminated hole |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

5. FEATURES OF SITE AREA:

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

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



Haag Engineering Consultants, LLC

Firm: F-5789

CCEO COPY

Preliminary Field Check For Drip Systems

AEROBIC TREATMENT DRIP TUBING SYSTEM FOR: LOT 959, CANYON BEND CANYON LAKE FOREST, UNIT 2

SITE DESCRIPTION:

Located in Canyon Lake Forest, Unit 2, Lot 959 the proposed system will serve at 3-bedroom, 1294 s.f. residence situated with soils per the Site Evaluation report. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3 or 4 inch SCH-40 pipe discharges from the residence into a NuWater B-550 (600 gpd) aerobic treatment plant containing a 353 gallon pretreatment tank and a 768 gallon pump chamber. The pump chamber contains a 0.5 HP Franklin C1-Series-20XC1-05P4-2W115 submersible well pump. The well pump is activated by a time controller allowing the distribution ten times per day with a 7-minute run time with the float setting at min. 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self-flushing 100 micron Arkal Disk filter then through a 1" SCH-40 manifold to a minimum 1200 sf drip tubing field with Netifim Bioline drip lines approximately two feet apart with 0.61 gph emitters set every two feet as per the attached schematic. A pressure regulator Model PMR35MF 35psi installed in the pump tank on the manifold to the field will maintain pressure at 35 psi. A 1" SCH-40 return line is installed to continuously flush the system by cycling a 1" ball valve. Solids caught in the disk filter are flushed each cycle back to the pump tank. Agricultural Products, Inc. (Model #VBK-1) 1" PVC vacuum breakers installed on the highest point on each manifold will prevent siphoning of effluent from higher to lower parts in the field. The field area shall be scarified and then built up so that a minimum of 12" of Type II or III soil is above any bedrock or type IV soils then the drip tubing shall be laid and capped with a minimum of 6" of Type II or Type III soil (NOT SAND). The field area shall be sodded with grass prior to system startup. The tank must have risers 2-inches minimum above finished grade on each opening with watertight caps that must be 65# or have a padlock or can only be removed with tools – all risers shall meet the minimum requirements of 30 TAC 285 effective July 6, 2023. A secondary plug, cap or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed.

DESIGN SPECIFICATIONS:

Daily flow = Q=240 gpd Pretreatment tank size: 353 gal

Plant size: NuWater B-550; 600 gpd (TCEQ approved)

Pump tank size: 768 gal

Min. Reserve capacity after high level: 80 gal (1/3 day req'd)

Application rate: Ra=0.2 gal/sf

Total absorption area: Q/Ra = min. 1200 sf (1,344 sf actual)

Total linear feet of drip tubing: 672' Netifim Bioline drip tubing 0.61 gph Pump requirement: 0.5 HP Franklin C1-Series-20XC1-05P4-2W115

| Calculation Outputs | |
|---|----------------|
| Total System Information | |
| Application Area Required (square feet) | 1,344 |
| Total Amount of Bioline® Required (feet) | 672 |
| Total Number of Emitters in the Dripfield | 336 |
| Total Number of Emiliers in the Dripheid | 330 |
| Zone Information | |
| Number of Zones | 1 |
| Amount of Bioline [®] Per Zone (feet) | 672 |
| Number of Emitters Per Zone | 336 |
| Minimum Number of Laterals Per Zone | 1 |
| Maximum Number of Laterals Per Zone | 11 |
| Number of Laterals That Will be Used | 3 |
| Maximum Length of Bioline [®] Laterals Based on Inlet Pressure | 391 |
| Flow Rate Per Zone (GPM) | 3.4 |
| Holding Capacity of Dripperline Per Zone (Gallons) | 8.9 |
| Additional Flow Requirement to Accommodate Flushing Velocity | 4.8 |
| Holding Capacity of Piping | |
| Holding Capacity (Gallons) of Supply Line & Supply & Flush Manifolds | 13.5 |
| Holding Capacity (Calloris) of Cappity 2 in a Cappity at Hash Mahilolas Holding Capacity (Gallons per Zone) of Bioline | 8.9 |
| Holding Capacity (Gallons) of Supply Line, Manifolds and Dripperline | 22.4 |
| Head Loss Data - Dosing & Flushing Cycle | |
| Friction Loss per 100' (psi) in Supply Line & Manifolds | 1.7 |
| Velocity (fps) | 3.1 |
| Friction Loss in Supply Line & Supply Manifolds (psi) | 5.0 |
| Friction Loss in Supply Line & Supply Manifolds (Feet of Head) | 11.6 |
| Additional Pressure Required for Return Manifold and Piping to Tank (psi) | 1.6 |
| Additional Pressure Required for Return Manifold and Piping to Tank (Feet of Head) | 3.7 |
| TDH (Total Dynamic Head) in Feet of Head | 107.1 |
| Control Settings Information | |
| Total System Runtime Per Day (Minutes) | 70 |
| Total Runtime Per Zone Per Day (Minutes) | 70 |
| Total System Dosing Events Per Day | 10 |
| Runtime For Each Dose (Minutes) | 7 |
| Off Time Between Doses in the Same Zone (Hours to nearest 0.1) | 2.3 |
| Miscellaneous Information | |
| Dosing Volume Per Emitter Per Dose (gallons) | 0.08 |
| Inches Per Week of Dosing | 2.01 |
| Volume of a Single Dose (gallons) | 27.3 |
| Pump Selection | |
| Pump Flow Rating (GPM) | 8.2 |
| TDH (Total Dynamic Head in Feet of Head) | 107.1 |
| Pump Manufacturer | Franklin |
| Pump Model 20 | XC1-05P4-2W115 |

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.

Designed in accordance with Chapter 285, Subchapter D, §285 and §285.40 Texas Commission on Environmental Quality (Revised March 2013).



01/13/2025

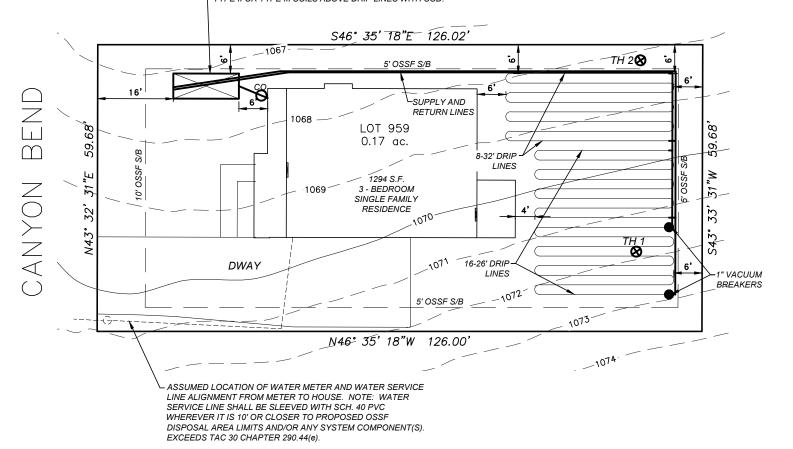
Haag Engineering Consultants, LLC

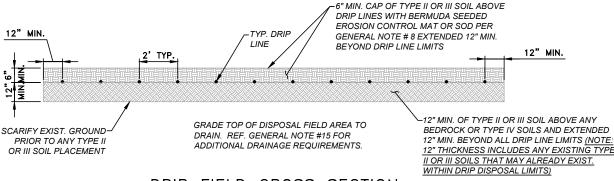
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GENERAL NOTES:

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

NUWATER B-550 600 GPD AEROBIC TREATMENT PLANT WITH HIGH LOAD LID AND FRANKLIN C1-SERIES-20XC1-05P4-2W115 THERE SHALL BE 12" MIN. THICK LAYER OF TYPE II OR III SOILS AT TOP OF TANK TO BOTTOM OF DRIP LINES AND 6" OF TYPE II OR TYPE III SOILS ABOVE DRIP LINES WITH SOD.





DRIP FIELD CROSS SECTION

SCALE: 1"=5'

1'' = 20'



OSSF LAYOUT LOT 959, 1420 CANYON BEND CANYON LAKE FOREST, UNIT 2 CANYON LAKE, TEXAS

- DESIGN DAILY WASTEWATER FLOW = 240 GPD (WATER SAVING DEVICES WERE ASSUMED FOR
- SEPTIC SYSTEM DESIGN).
 TOPOGRAPHIC DATA SOURCE: FEMA 2011 DATA
- INSTALLER SHALL VERIFY ALL EASEMENTS, SETBACKS AND PROPERTY LINE BEARINGS AND DISTANCES PRIOR TO CONSTRUCTION.
- ALL RISERS SHALL MEET THE MINIMUM REQUIREMENST OF 30 TAC 285 EFFECTIVE 07/06/2023.

NOTE: OSSF IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE OR FEMA 100 YEAR FLOODPLAIN. ITE EVALUATION BY JOHN J. HAAG. P.E. ON 01/09/2025

DRAWN BY: JJH CHECKED BY: JJH 01/13/25 JOB NO. RUT25003

SHEET 1 OF 1

EC HAAG ENGINEERING CONSULTANTS

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

TEL: (210) 705-4268

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Assembly Details

OSSF

Pump float settings for 240 gpd design flow and min. 80 gal reserve:

Pump off position: 12 inches above tank bottom (166.90 gal) Pump on position: 29 inches above tank bottom (409.90 gal) Alarm on position: 36 inches above tank bottom (512.22 gal) 254.04 gal reserve capacity at approx. 53 inches above tank bottom



See Note 9.

GENERAL NOTES:

- Plant structure material to be precast concrete and steel.
- Maximum burial depth is 30" from slab top to grade.
- Weight = 14,900 lbs.
- Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 beedroom, < 4,000 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day.
- Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
- Bio-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer available for drip applications. Electrical Requirement to be 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle.
- 20" Ø acess riser w/ lid (Typical 4). Optional extension risers available.
- 20 GPM 1/2 HP, high head effluent pump.
- HIBLOW Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 11. 1" Sch. 40 PVC pipe to distribution system provided by
- 12. 4" min. compacted sand or gravel pad by Contractor

See Note 9. See Note 5. See Note 10. See Note 7. See Note 11. Inlet Flow Line O 53"" 59" Aeration Clarifier 190 Gal. 353 Gal. Diffuser Bar See Note 8.

DIMENSIONS:

Outside Height: 67" Outside Width: 63" **Outside Length: 164"**

MINIMUM EXCAVATION DIMENSIONS:

Width: 76" Length: 176"

March, 2012 - Rev 1 By: A.S.

* All Dimensions subject to allowable specification

Dwg. #: ADV-B550-3



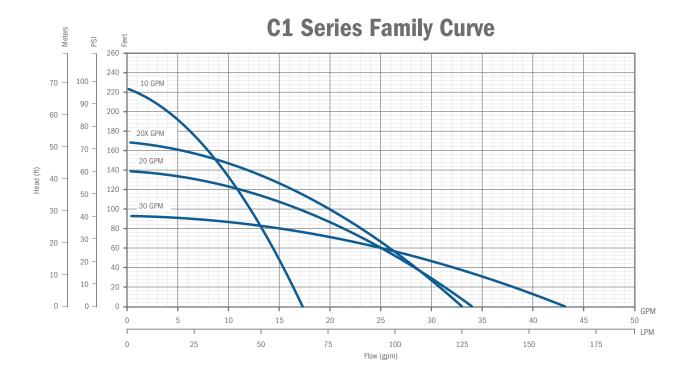
See Note 12.

Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051

NuWater B-550 (600 GPD) **Aerobic Treatment Plant (Assembled)**

Model: B-550-PC-400PT





FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, ½ hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy duty 600 V 10 foot SJ00W jacketed lead

APPLICATIONS

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

ORDERING INFORMATION

| | C1 Series Pumps | | | | | | | | | | |
|-----|-----------------------------------|-------|-------|------------------|-----------|-------------|--------------|--|--|--|--|
| GPM | HP | Volts | Stage | Model No. | Order No. | Length (in) | Weight (lbs) | | | | |
| 10 | | 115 | 7 | 10C1-05P4-2W115 | 90301005 | 26 | 17 | | | | |
| 10 | | 230 | 7 | 10C1-05P4-2W230 | 90301010 | 26 | 17 | | | | |
| 20 | 1/0 | 115 | 5 | 20C1-05P4-2W115 | 90302005 | 25 | 16 | | | | |
| 20 | | 230 | 5 | 20C1-05P4-2W230 | 90302010 | 25 | 16 | | | | |
| 20X | $\stackrel{1/2}{\longrightarrow}$ | 115 | 6 | 20XC1-05P4-2W115 | 90302015 | 26 | 17 | | | | |
| 201 | | 230 | 6 | 20XC1-05P4-2W230 | 90302020 | 26 | 17 | | | | |
| 30 | | 115 | 4 | 30C1-05P4-2W115 | 90303005 | 25 | 16 | | | | |
| 30 | | 230 | 4 | 30C1-05P4-2W230 | 90303010 | 25 | 16 | | | | |

Note: All units have 10 foot long SJOOW leads.





BIOLINE® DRIPLINE

THE WORLD'S MOST ADVANCED CONTINUOUS SELF-CLEANING, PRESSURE COMPENSATING DRIPLINE SPECIFICALLY DESIGNED FOR WASTEWATER

CROSS SECTION OF BIOLINE DRIPLINE

Bioline dripper inlets are positioned in the center of flow where water is the cleanest





PRODUCT ADVANTAGES

- Pressure compensation all drippers deliver equal flow, even on sloped or rolling terrain.
- Unique flow path Turbonet technology provides more control of water and a high resistance to clogging.
- Continuous self-flushing dripper design flushes debris, as it is detected - throughout operation, not just at the beginning or end of a cycle. Ensures uninterrupted dripper operation.
- · Single hole dripper outlet from tubing:
 - Better protection against root intrusion
 - Allows the dripline to be used in subsurface applications without need for chemical protection
- Drippers capture water flow from the center of the tubing ensures that only the cleanest flow enters the dripper.
- Built-in physical root barrier drippers are protected from root intrusion without the need for chemical protection. Water exits dripper in one location while exiting the tubing in another.
- Three dripper flow rates provides the broadest range of flow rates available. Allows the designer to match the dripline to any soil or slope condition.
- Bioline tubing is completely wrapped in purple easily identifying it for non-potable use, regardless of how the tubing is installed.
- Anti-bacterial-impregnated drippers prevents buildup of microbial slime.
- Can be used subsurface Bioline can be installed on-surface, under cover or subsurface.
- No special storage requirements does not degrade if stored outdoors.
- Techfilter compatible an optional level of protection, provides a limited lifetime warranty against root intrusion.

APPLICATIONS

- Typically installed following a treatment process
- Can be used with domestic septic tank effluent with proper design, filtration and operation
- Reuse applications including municipally treated effluent designated for irrigation and other disinfected and non-disinfected water sources.

SPECIFICATIONS

- Dripper flow rates: 0.4, 0.6 or 0.9 GPH
- Dripper spacings: 12", 18" or 24" dripper spacings and blank tubing
- Pressure compensation range: 7 to 58 psi (stainless steel clamps recommended above 50 psi)
- Maximum recommended system pressure: 50 psi
- Tubing diameter: 0.66" OD, 0.57" ID
- Tubing color: Purple color indicates nonnotable
- Coil lengths: 500' or 1,000' (Blank tubing in 250')
- · Recommended filtration: 120 mesh
- Bending radius: 7"
- UV resistant
- Tubing material: Linear low-density polyethylene

Additional spacing and pipe sizes available by special order. Please contact Netafim USA Customer Service for details.

BIOLINE DRIPLINE

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 3.0 fps Flush velocity ADDITIONAL FLOW OF 2.3 GPM REQUIRED PER LATERAL TO ACHIEVE 3 fps DRIPPER SPACING DRIPPER FLOW RATE (GPH) | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | Flow per 100' (GPM / GPH) 1.53/92 0.77/46 0.67/40 1.02/61 0.44/26.67 0.68/41 1.02/61 0.51/31

Lateral lengths are based on flows allowing for a 3 fps flushing/scouring velocity

| MAX | KIMUM LENGTH OF A | SINGLE L | ATERAL' | WITH 2.5 | fps FLUSI | I VELOC | TY | | | |
|----------|--|----------|---------|----------|------------|---------|---------|---------|---------|---------|
| ADD | ADDITIONAL FLOW OF 2.0 GPM REQUIRED PER LATERAL TO ACHIEVE 2.5 fps | | | | | | | | | |
| I | DRIPPER SPACING 12" 18" | | | | | | | 24" | | |
| DRIP | PER FLOW RATE (GPH) | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH |
| щ | 15 | 128 | 115 | 100 | 172 | 155 | 136 | 205 | 187 | 165 |
| SE | 25 | 183 | 161 | 137 | 248 | 220 | 188 | 301 | 268 | 231 |
| PRESSURE | 35 | 228 | 198 | 166 | 310 | 272 | 229 | 379 | 333 | 283 |
| INLET | 40 | 248 | 214 | 178 | 338 | 295 | 247 | 413 | 362 | 305 |
| Z | 45 | 266 | 229 | 190 | 364 | 316 | 263 | 447 | 389 | 327 |
| Flow | per 100' (GPM / GPH) | 0.67/40 | 1.02/61 | 1.53/92 | 0.44/26.67 | 0.68/41 | 1.02/61 | 0.34/20 | 0.51/31 | 0.77/46 |

Lateral lengths are based on flows allowing for a 2.5 fps flushing/scouring velocity

| MAX | KIMUM LENGTH OF A | SINGLE L | ATERAL' | WITH 2.0 | fps FLUS | I VELOC | TY | | | |
|-----------------------------|--|----------|---------|----------|------------|---------|---------|---------|---------|---------|
| ADD | ADDITIONAL FLOW OF 1.6 GPM REQUIRED PER LATERAL TO ACHIEVE 2.0 fps | | | | | | | | | |
| DRIPPER SPACING 12" 18" 24" | | | | | | | | | | |
| DRIP | DRIPPER FLOW RATE (GPH) 0.4 GPH 0.6 GPH 0.9 GPH | | | | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH |
| ш | 15 | 161 | 141 | 119 | 217 | 191 | 164 | 263 | 233 | 201 |
| PRESSURE | 25 | 221 | 190 | 157 | 302 | 261 | 218 | 369 | 321 | 270 |
| PRES | 35 | 269 | 229 | 187 | 370 | 316 | 260 | 455 | 391 | 324 |
| INLET | 40 | 290 | 246 | 200 | 399 | 340 | 278 | 493 | 421 | 347 |
| 2 | 45 | 310 | 261 | 212 | 427 | 362 | 296 | 527 | 449 | 369 |
| Flow | per 100' (GPM / GPH) | 0.67/40 | 1.02/61 | 1.53/92 | 0.44/26.67 | 0.68/41 | 1.02/61 | 0.34/20 | 0.51/31 | 0.77/46 |

Lateral lengths are based on flows allowing for a 2 fps flushing/scouring velocity

| MAX | MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.5 fps Flush velocity | | | | | | | | | |
|-----------------------------|--|---------|---------|---------|------------|---------|---------|---------|---------|---------|
| ADD | ADDITIONAL FLOW OF 1.2 GPM REQUIRED PER LATERAL TO ACHIEVE 1.5 fps | | | | | | | | | |
| DRIPPER SPACING 12" 18" 24" | | | | | | | | | | |
| DRIP | PER FLOW RATE (GPH) | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH |
| щ | 15 | 201 | 171 | 140 | 275 | 235 | 194 | 337 | 289 | 241 |
| PRESSURE | 25 | 266 | 222 | 179 | 366 | 308 | 251 | 453 | 383 | 313 |
| RES | 35 | 316 | 262 | 210 | 437 | 365 | 295 | 543 | 455 | 369 |
| INLET | 40 | 337 | 280 | 223 | 469 | 391 | 313 | 583 | 487 | 393 |
| 2 | 45 | 358 | 296 | 235 | 497 | 413 | 331 | 619 | 517 | 415 |
| Flow | per 100' (GPM / GPH) | 0.67/40 | 1.02/61 | 1.53/92 | 0.44/26.67 | 0.68/41 | 1.02/61 | 0.34/20 | 0.51/31 | 0.77/46 |

Lateral lengths are based on flows allowing for a 1.5 fps flushing/scouring velocity

| MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.0 fps FLUSH VELOCITY ADDITIONAL FLOW OF 0.8 GPM REQUIRED PER LATERAL TO ACHIEVE 1.0 fps | | | | | | | | | | |
|--|-----------------------------|---------|---------|---------|------------|---------|---------|---------|---------|---------|
| - 1 | DRIPPER SPACING 12" 18" 24" | | | | | | | | | |
| DRIP | PER FLOW RATE (GPH) | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH |
| ш | 15 | 248 | 205 | 163 | 344 | 285 | 228 | 427 | 355 | 285 |
| PRESSURE | 25 | 315 | 258 | 203 | 440 | 361 | 286 | 549 | 453 | 359 |
| SES | 35 | 367 | 299 | 234 | 513 | 419 | 331 | 643 | 527 | 417 |
| INLET | 40 | 389 | 316 | 248 | 545 | 445 | 350 | 683 | 559 | 441 |
| Z | 45 | 409 | 332 | 260 | 574 | 468 | 367 | 721 | 589 | 463 |
| Flow | per 100' (GPM / GPH) | 0.67/40 | 1.02/61 | 1.53/92 | 0.44/26.67 | 0.68/41 | 1.02/61 | 0.34/20 | 0.51/31 | 0.77/46 |

Lateral lengths are based on flows allowing for a 1 fps flushing/scouring velocity

| MAX | KIMUM LENGTH OF A | SINGLE L | ATERAL | WITH 0.5 | fps FLUSH | I VELOCI | ΙΤΥ | | | |
|--|-----------------------------|----------|---------|----------|------------|----------|---------|---------|---------|---------|
| ADDITIONAL FLOW OF 0.4 GPM REQUIRED PER LATERAL TO ACHIEVE 0.5 fps | | | | | | | | | | |
| | DRIPPER SPACING 12" 18" 24" | | | | | | | | | |
| DRIP | PER FLOW RATE (GPH) | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH |
| ш | 15 | 301 | 242 | 188 | 422 | 341 | 265 | 531 | 429 | 335 |
| PRESSURE | 25 | 369 | 296 | 228 | 520 | 418 | 323 | 655 | 527 | 409 |
| PRES | 35 | 421 | 337 | 260 | 595 | 476 | 368 | 749 | 603 | 467 |
| INLET | 40 | 443 | 354 | 273 | 626 | 501 | 387 | 790 | 635 | 491 |
| 2 | 45 | 464 | 371 | 285 | 656 | 524 | 404 | 829 | 665 | 513 |
| Flow | per 100' (GPM / GPH) | 0.67/40 | 1.02/61 | 1.53/92 | 0.44/26.67 | 0.68/41 | 1.02/61 | 0.34/20 | 0.51/31 | 0.77/46 |

Lateral lengths are based on flows allowing for a 0.5 fps flushing/scouring velocity

Netafim recommends flushing velocities capable of breaking free any accumulated bioslimes and debris in the piping network.

- Notes: 1. Refer to local regulations for information on flushing velocities that may be written into codes.
 - 2. Netafim does not endorse a specific flushing velocity.
 - 3. Flushing velocities should be determined based on regulations, quality of effluent, and type of flushing control.
 - Using a flushing velocity less than 1 fps does not provide turbulent flow as defined by Reynolds Number.
 - Higher flushing velocities provide more aggressive flushing.

Olvera, Brandon

From: Olvera, Brandon

Sent: Friday, February 7, 2025 12:38 PM **To:** jhaagpe@gmail.com; Lars Nielsen

Subject: 118274

Property Or Agent,

W will be conducting a site visit on 12-10-2025. No other deficiencies.

Thank You,

| Brandon Olvera | Designated Representative OS0034792 | Comal County | www.cceo.org | 195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

General Warranty Deed

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.

| Date: April <u></u> , 2024 |
|---|
| Grantor: Ruth Kerns Skeen, a single person |
| Grantor's Mailing Address: |
| Grantee: Havenbrook Homes of Texas, LLC. |
| Grantee's Mailing Address: 17310 FM 306, Canyon Lake, TX 78133 |
| Consideration: the sum of TEN DOLLARS (\$10.00) cash, and other good and valuable consideration |
| Property (including any improvements): |

Lot Nine Hundred Fifty-Nine (959) in Canyon Lake Forest Unit 2, as shown by map or plat of said subdivision duly recorded in the Office of the County Clerk of Comal County, Texas, in Volume 1, Page 73-74, of Plat Records of Comal County, Texas.

Reservations from Conveyance: None

Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to all restrictions, encumbrances, easements, covenants, and conditions relating to the Property filed for record in Comal County, Texas.

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.

EXECUTED this day of April, 2024.

Ruth Kerns Skeen

THE STATE OF S

COUNTY OF Second S

Before me, a Notary Public, the foregoing instrument was acknowledged on day of April, 2024 by Ruth Kerns Skeen who personally appeared before me, and who is known to me through Second to be the person(s) who executed it for the purposes and consideration expressed therein, and in the capacity stated.

MARY L HUERTAS
Notary Public
State of Texas
ID # 12523826-9
Comm. Expires 05/20/2025

NOTARY PUBLIC, STATE OF

AFTER RECORDING, RETURN TO:
Havenbrook Homes of Texas, LLC
17310 FM 306
Canyon Lake, TX 78133

PREPARED IN THE LAW OFFICE OF Shaddock & Associates, P. C. 2400 N. Dallas Parkway, Ste. 560 Plano, Texas 75093

> Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 04/09/2024 09:34:59 AM MARY 2 Pages(s) 202406010536

