

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

| Permit Number: | 114291 |
|---------------------------------|------------|
| Issued This Date: | 05/03/2022 |
| This permit is hereby given to: | John Anca |

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

1428 GLENWOOD LOOP BULVERDE, TX 78163

| Subdivision: | Glenwood |
|--------------|----------|
| Unit: | 0 |
| Lot: | 91 |
| Block: | 0 |
| Acreage: | 0.0000 |

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic Surface Irrigation

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

Call (830) 608-2090 to schedule inspections.

| RECEIVED By KG at 12:19 pm, Apr 01, 2022 | | | |
|---|---|---|--|
| COMAL COUNTY ENGINEER'S OFFICE ON-SITE SEWAGE FAC | | CATION | 195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 <u>WWW.CCEO.ORG</u> |
| Date MARCH 21", 2022 | | Permit Number | 114291 |
| 1. APPLICANT / AGENT INFORMATION Owner Name Joth ANCA Mailing Address 61 Rodal xn dr. City, State, Zip Boerne TX 78006 Phone # (210) 632-2321 Email John anca 56 @ [Claud.com 2. LOCATION | Agent Name Agent Address City, State, Zip Phone # Email | Wade Cloud PO Box 228 Boerne, TX 780 210.385.6396 wade@lonestar | as.com |
| Subdivision Name GLENWOOD | U | nit Lot | |
| Survey Name / Abstract Number Address 428 GLEN Wood LooP | City RULLE | RDE Sta | Acreage |
| Address 1918 GLEN WOOD LOOP (| | Sta | |
| Number of Bedrooms Indicate Sq Ft of Living Area Non-Single Family Residential (Planning materials must show adequate land area for doubling the Type of Facility Offices, Factories, Churches, Schools, Parks, Etc Indicate Restaurants, Lounges, Theaters - Indicate Number of Seats Hotel, Motel, Hospital, Nursing Home - Indicate Number of B Travel Trailer/RV Parks - Indicate Number of Spaces Miscellaneous | Number Of Occ Beds | upants | |
| 20000 | | | |
| Estimated Cost of Construction: \$ 350,000 (S Is any portion of the proposed OSSF located in the United State Yes No (If yes, owner must provide approval from USACE for pound Source of Water Public Private Well 4. SIGNATURE OF OWNER | es Army Corps of | | |
| By signing this application, I certify that: The completed application and all additional information submitted does facts. I certify that I am the property owner or I possess the appropriate property. Authorization is hereby given to the permitting authority and designated site/soil evaluation and inspection of private sewage facilities I understand that a permit of authorization to construct will not be issued by the Comal County Flood Damage Prevention Order. I affirmative versionsent to the online posting/public release of my e-mail a signature of Owner | land rights necessive agents to enter up a land in the Floodplai address associated | ary to make the perm on the above describ n Administrator has j | nitted improvements on said and property for the purpose of performed the reviews required lication, as applicable. |
| | | | Revised January 20 |

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* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * * <u>APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN</u> <u>ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE</u>

| Planning Materials & Site Evaluation as Required Completed By Wade A. Cloud, R.S. |
|--|
| System Description Aerobic Treatment, Surface Application |
| 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) 4687.5, Actual 4825.49 |
| Gallons Per Day (As Per TCEQ Table III) 300 |
| (Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.) |
| Is the property located over the Edwards Recharge Zone? Yes No |
| (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) |
| Is there an existing TCEQ approved WPAP for the property? 🗌 Yes 🔀 No |
| (If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.) |
| If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? 🔲 Yes 🔀 No |
| (If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.) |
| Is the property located over the Edwards Contributing Zone? 🖂 Yes 🔲 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: |
| |
| |
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| |
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| |
| |
| By signing this application, I certify that: |
| The information provided above is true and correct to the best of my knowledge. I affirmatively consept to the online posting/public release of my e-mail address associated with this permit application, as applicable. |
| |

Signature of Designer

03/25/27 Date

Page 2 of 2

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

Revised July 2018



202206014097 03/25/2022 03:20:05 PM 1/1



AFFIDAVIT TO THE PUBLIC

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

1

According to Texas Commission on Environmental Quality 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 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 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 deed recording. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This deed certification 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):

11

| Lot <u>91</u> Block Subdivision GLEN | NecD | | Unit/Phase/Section 1.01 Acres. |
|--|--------|------|--------------------------------|
| If not in Subdivision:Acres | | | Survey |
| The property is owned by (insert owner's full name): | CAHOL- | ANCA | |

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

Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office.

12HD Owner Signature Owner Name

Owner Name

Owner Signature

This instrument was acknowledged before me on: 22nd Day of March, 2022.

ublic. State of Texas

Commission Expires: NOV 5,2023



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| C | |
|-----------------------------------|---------------------------------------|
| REGULATORY AUTHORITY 6MQ | PERMIT/LICENSE NUMBER |
| WASTEWATER TREATMENT FACILITY MON | ITORING AGREEMENT |
| Lonestar Aerobic Services, LLC | Customer John Anca |
| PO Box 228 | Site Address 1428 GLENWOOD LOOP |
| Boerne, TX 78006 | City BULUERDE Zip 78163 Gate 0209 |
| Off. (830)443-4559 | Mailing Address 61 Rodalyn Jr. |
| Fax (210)579-6073 | City Boene TX Zip 78006 |
| Website www.lonestaras.com | Day Phone (210) 632-232 |
| E-Mail wadecloud@lonestaras.com | Home Phone |
| Installer Rog Fischer | Emergency Phone |
| | ment") is entered into by and between |

described herein. The designed flow rate for this system is a maximum of ______ gallons per day. II. Effective Dates: This agreement commences on ______ and ends on ______ for a total of two (2) years (initial agreement) or one (1) year (there after). If this is an initial agreement (new installation), the Customer will notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to Operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

III. Renewal: This Agreement shall automatically renew each year at the same terms. conditions, and costs, unless either party gives notice of termination a minimum of thirty (30) days prior to end of first agreement period. See Section IV.

IV. Termination of Agreement: This Agreement may be terminated by either party with thirty (30) days written notice for any reason, including for example, substantial failure to perform in accordance with its terms, without fault or liability of the terminating party. If this Agreement is so terminated, Contractor will be paid at the rate of \$75 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any remaining monies from prepayment for services will be refunded to customer within thirty (30) days. Either party terminating this agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination. Nonpayment of any kind shall be considered breach of contract.

V. Services: Contractor will;

A. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulations, for a total of three visits to site per year.

B. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel.

C. Repair or replace. if Contractor has necessary materials at site, any component of the OSSF found to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and service costs are \$100.00 or less. Customer hereby authorizes Contractor to perform the service and bill Customer for said service. When service costs are greater than \$100.00, or if Contractor does not have necessary supplies at the site. Contractor will notify Customer of required service(s) and associated cost(s). Customer must notify Contractor of arrangements to effect repair of system within two (2) business days after said notification.
 D. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).

E. Forward copies of this Agreement and all reports to the regulatory agency and the customer.

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

VI. Disinfection: _____Not Required. X___ Required. The responsibility to maintain the disinfection device(s) and provide any necessary chemicals is that of the _______Customer. VII. Electronic Monitoring is not included in this Agreement.

VIII. Performance of Agreement: Commencement of performance by Contractor under this agreement is contingent on the following conditions:

A. If this is an initial agreement (new installation);

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

2. Contractor's receipt of payment of the wastewater monitoring fee in accordance with the terms as described in Section XIV of this Agreement.

B. If this is not an initial agreement (existing system);

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

2. Contractor's receipt of payment of the wastewater monitoring fee in accordance with the terms as described in Section XIV of this Agreement.

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

IX. Customer's Responsibilities. The Customer is responsible for each and all of the following:

A. Provide all necessary yard or lawn maintenance and the 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 an on-site sewage facility (OSSF) from the State and/or local regulatory agency, whichever are more stringent, as well as proprietary system's manufacturer recommendations.
- D. Notify Contractor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.
- E. Provide, upon request by Contractor, water usage records for evaluation by Contractor as to 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 V. sub-section D. above. Customer agrees to pay Contractor for sample collection and transportation, portal to portal, at a rate of \$35 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 condensate 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.

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

- J. Maintain site drainage to prevent adverse effects on the OSSF,
- K. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

X. 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. If not an initial agreement (new installation) and this access is not in place or provided for by the customer. the costs for the labor of excavation, and possibly other labor and materials costs, will be required. These costs shall be billed to Customer as an additional service at a rate of \$35 per hour. plus inaterials at list price. Excavated soil shall be replaced as best as Contractor can at the time such service is performed and under no circumstances is Contractor responsible for damages to sod, grass, roots, landscaping, or any unmarked underground items (telephone, television, or electric cables, water, air, or gas lines, etc.), or for the uneven settling of the soil.

- XI. 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.
- XII. Severability: If any provision of this "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 this "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 does not include any equipment, materials, or labor necessary for non-warranty repairs or for unscheduled. Customer requested visits to the site.
 XIV. Payment: Full amount due upon signature (Required of new Customer). Payment of invoice(s) for any other service or repair provided by contractor is due upon receipt of invoice. Invoices are mailed 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 returned check fee. XV. Application or Transfer of payment: The fees paid for this agreement may transfer to the subsequent property owner(s); however this agreement is not transferable. Customer will advise 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 obligations arising from this Agreement including late fees or penalties, returned 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. 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 promises or conditions in any other agreement, oral or written.

Texas Installer II License number OS24590. omer Signature Wade A Cloud

Wade A. Cloud, R.S. PO Box 228 Boerne, TX 78006 830.443.4559

March 25, 2022

Comal County Office of Environmental Health 195 David Jonas Drive New Braunfels, TX 78132-3760

RE: Septic Design 1428 Glenwood Lp Glenwood, Lot **91** John Anca

Ms. Ritzen/Mr. Olvera,

The Referenced property is located within the Edwards Aquifer Contributing Zone. This OSSF design will comply with the requirements in the CZP.

Temporary erosion and sedimentation controls should be utilized as necessary prior to construction. If any sensitive features (caves, solution cavities, sink holes, etc.) are discovered during construction, all activities must be suspended immediately and the applicant or his agent must notify the TCEQ Regional Office. Operations may proceed only after the Executive Director approves required additional engineered impact plans.

All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (effective December 27, 2012).

Please contact me with any questions.

In Christ,

WADE A CLOI

Wade A. Cloud, R.S. #4486

On-Site Sewage Facility Soil and Site Evaluation

| Date Performed: 03/25/2022 New | Installation 🙆 Replacement 📿 Alteration 📿 |
|---|---|
| Property Owner's Information: | Licensed Site Evaluator: |
| Name: John Anca | Name: Wade A. Cloud |
| Address: 1428 Glenwood Lp | Company: Blackwater Designs |
| City: Bulverde , TX 78163 | Address: PO Box 228 |
| Phone:Fax: | City: <u>Boerne</u> , TX 78006 |
| | Phone: 210.900.2971 Fax: 210.579.6073 |
| Property Description: | TCEQ License #: OS0029338 |
| Subdivision: Glenwood | |
| Plat date:Lot:91Block: | Installer Information: |
| Site Address: 1428 Glenwood Lp | Name: Roy Fischer |
| City: Bulverde, TX78163 | Company: Roy Fischer Construction |
| County: Comal Unicorp. Area: VON | Address: PO Box 683 |
| Property Size:Acres: 1.016 | City: <u>Boerne</u> , TX <u>78006</u> |
| Survey:Absstract: | |
| Additional Info: | TCEQ License #: OS0000271 |
| | |
| Торо | graphy |
| | |
| Slope Vegetation Sit | e Drainage Water |
| Q Flat-under 2% Q Grass/Brush | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams 100 Year Flood Zone |
| Grass/Brush Slight-under 2% Slight-under 4% | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams |
| Comments/Observations: | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams 100 Year Flood Zone RechargeFeatureWithin 150ft |
| Flat-under 2% Slight-under 4% Severe-over 5% Grass/Brush Lightly Wooded Generative Wooded | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams 100 Year Flood Zone RechargeFeatureWithin 150ft |
| Flat-under 2% Slight-under 4% Severe-over 5% Grass/Brush Lightly Wooded Generative Wooded | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams 100 Year Flood Zone RechargeFeatureWithin 150ft |
| Flat-under 2% Slight-under 4% Severe-over 5% Grass/Brush Lightly Wooded Generative Wooded | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams 100 Year Flood Zone RechargeFeatureWithin 150ft |
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| Flat-under 2% Slight-under 4% Severe-over 5% Grass/Brush Lightly Wooded Heavily Wooded Grass/Brush Lightly Wooded Grass/Brush Grass/Brush Lightly Wooded Grass/Brush Lightly Wooded Grass/Brush Grass/Brush Grass/Brush Lightly Wooded Grass/Brush Grass/Brush | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams 100 Year Flood Zone RechargeFeatureWithin 150ft Supply N ft from proposed disposal area? Y ON documentation, i.e. well log or Y ON is/are pressure cemented or Y ON water table. (Cannot be closer than 50 ft) Yoth |
| ○ Flat-under 2% ○ Slight-under 4% ○ Severe-over 5% ○ Heavily Wooded ○ Heavily Wooded ○ Comments/Observations: ○ Public, name of public water supplier: ○ Private For on-site water well: Is water well less than 100 feet from Are neighboring wells less than 100 If yes to either above, need driller affidavit, that well(s) grouted to 100 ft or top of the grouted to 100 | Poor Seasonal Water Table Adequate Water Table, Depth: Good Lakes, Ponds, Streams 100 Year Flood Zone RechargeFeatureWithin 150ft Supply N ft from proposed disposal area? Y ON documentation, i.e. well log or Y ON is/are pressure cemented or water table. (Cannot be closer than 50 ft) |

At least two soil evaluations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil boring or dug pits must be shown on the drawing.

For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed trench depth. For surface disposal, the surface horizon must be evaluated.

Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depth.

Proposed Trench Depth N/A Will be 18" to 36" unless designed by P.E. or R.S.) See document on back or next page. 03/25/2022

Wade A. Cloud, SE OS0029338

Date

| Depth(ft) | Textural | Soil Texture | Gravel Analysis | Drainage (Mottles/Water | Restrictive |
|--|----------------|---------------------------------------|---|---------------------------------------|-------------|
| | Class | & Color | for Class II and III | Table) indicate color of mottling | Horizon |
| 0 | N/A | N/A | N/A | N/A | Exposed |
| - | | | | | Fracture |
| 1 | | | | | Rock |
| - | | | | | |
| 2 | | | | | |
| - | | | | | |
| 3 | | | | | |
| - | | | | | |
| 4 | | | | | |
| - | | | | | |
| 5 | | | | | |
| | or Dug Pit # 2 | 2 Test holes we | ere not attempted | | N SHELS |
| Depth(ft) | Textural | Soil Texture | Gravel Analysis | Drainage (Mottles/Water | Restrictive |
| | Class | & Color | for Class II and III | Table) indicate color of mottling | Horizon |
| 0 | N/A | N/A | N/A | N/A | Exposed |
| - | | | | | Fractured |
| 1 | | | | | Rock |
| - | | | | | |
| 2 | | | | | |
| - | | | | | |
| 3 | | | | | |
| - | | | | | |
| 4 | | | | | |
| - | | / | | | |
| 5 | | | | | |
| | the findings o | f this report, base standard On-Si | ed on field observation ite Sewage Facility: | s, are accurate to the best of my I | nowledge. |
| certify that in the state of th | uitable tor a | standard on s | 03/25/2022 | | |

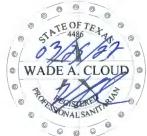
On-Site Sewage Facility Design Criteria

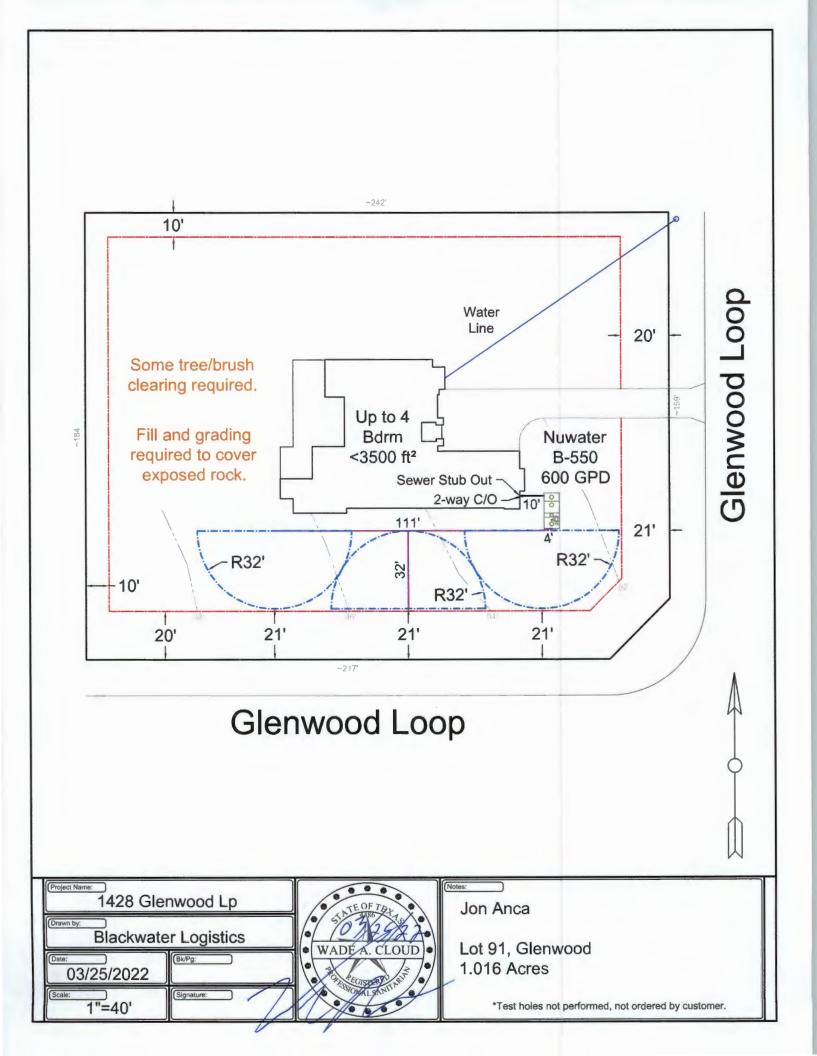
| Property Information: | | House Information: | | | |
|--|--------------------------|--|-----------------------|-----------------|--|
| Site Address: 1428 Glenwood Lp | | Number of Bedrooms: | 4 | | |
| City: Bulverde | TX 78163 | Number of Facilities: | 1 | | |
| | | Total for Calculation: | | | |
| Q=Sewage in GPD: | | Square Footage(Approx.): | <3500 ft ² | 2 | |
| Water Saving Devices: | O Yes O No | Water Supply: | Public | | |
| Q Gallons/Day: | 300 | Additional GPD:: | 0 | | |
| Greywater Included: | Yes ONO | Each Bedroom & Each Facility = 6 | 0 gpd | | |
| | - | Facility = Kitchen + Laundry | | | |
| Rate of Adsorption (Ra): | | Supply Line From House: | | | |
| Application Rate (gal/ft ² /day): | .064 | Length (Approx. ft): | 10' | | |
| Minimum Adsorptive Area (ft ²): | 4,687.50 | Size (in.): | 3" or 4" | | |
| | -137.99 | Type: | Sch 40 | | |
| Aerobic Treatment Unit: | | Supply Line from Tank to Applicat | tion Area: | | |
| Required Minimum GPD: | 480 | Length (Approx. ft): | 147' | | |
| Pretreatment Tank Capacity (gal): | 353 | Size (in.): | 1" | | |
| Class 1 ATU: | Nuwater B-550 | Туре: | Sch 40 | | |
| Pump Tank Capacity (gal): | 768 | Surface Application Area(πR ²): | | | |
| Disinfectant Type: | Liquid Chlorine | $\pi(32)^2 \times .5$: | 1,608.50 | ft² | |
| Pump Operation: | Timer | $\pi(32)^2 \times .5$: | 1,608.50 | ft ² | |
| Quantity (gal) Dosing Cycle : | Varied | $\pi(32)^2 \times .5$: | 1,608.50 | ft ² | |
| Cycle Time: | 12:00 am-5:00 am | π() ² x: | 0.00 | ft2 | |
| Pump Size & Type: | 1/2hp Franklin C1-Series | $\pi(_)^2 \times _:$ | 0.00 | ft2 | |
| | | $\pi()^2 \times$: | 0.00 | ft² | |
| Comments: Installing a 600 GPD Nuwate | er B-550 with 3 | $\pi()^2 \times$ | 0.00 | ft² | |
| sprinklers set at 180° with a 32' radius. | | Total Adsorptive Area(ft ²): | 4,825.49 | ft² | |
| | | Drip Application Area: | | | |
| | | Minimum Linear Drip Tubing(ft ²): | N/A | | |
| | | # of Drip Emitters(Aft ² /4ft ²): | N/A | | |
| | | Number of Emitters per Field: | N/A | | |
| Vegetation Plan: The surface application | shall be applied | Pump Requirements(GPM) | | | |
| to existing vegetation, any bare area shall | be seeded with a | (N/A)@ 0.61 GPH @ 25 PSI | : | | |
| mixture of winter rye and bermuda seed bef | ore system start up. | | N/A | | |

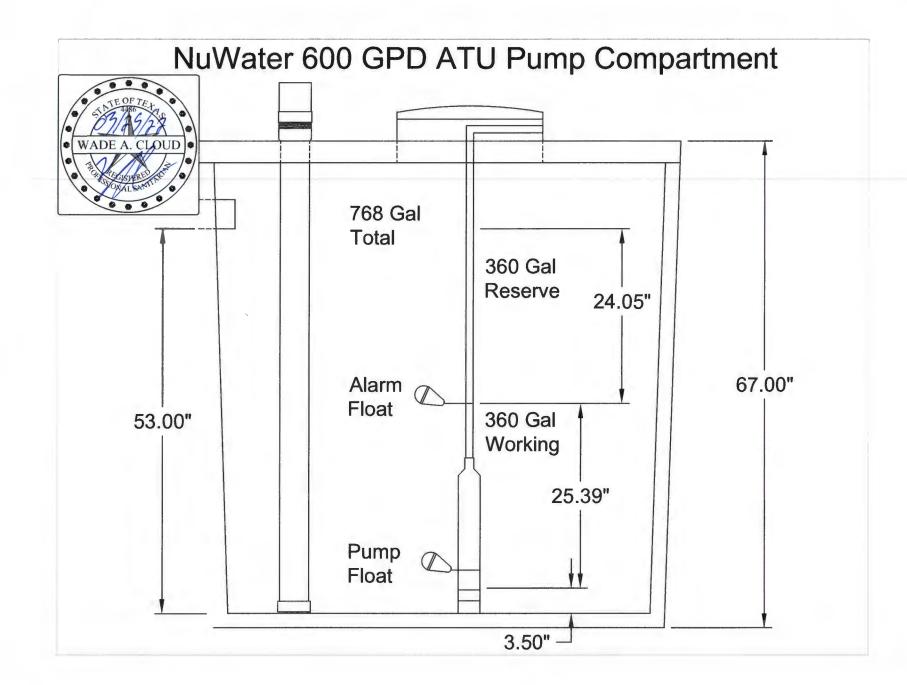
All design criteria is in accordance with TCEQ, Title 30, TAC Chapter 285, Subchapter D, On-Site Sewage Facilities (effective December 27, 2012). Above design is based on best available information and should function properly under normal operating conditions. All changes or modifications made to design must be approved by Wade A Cloud.

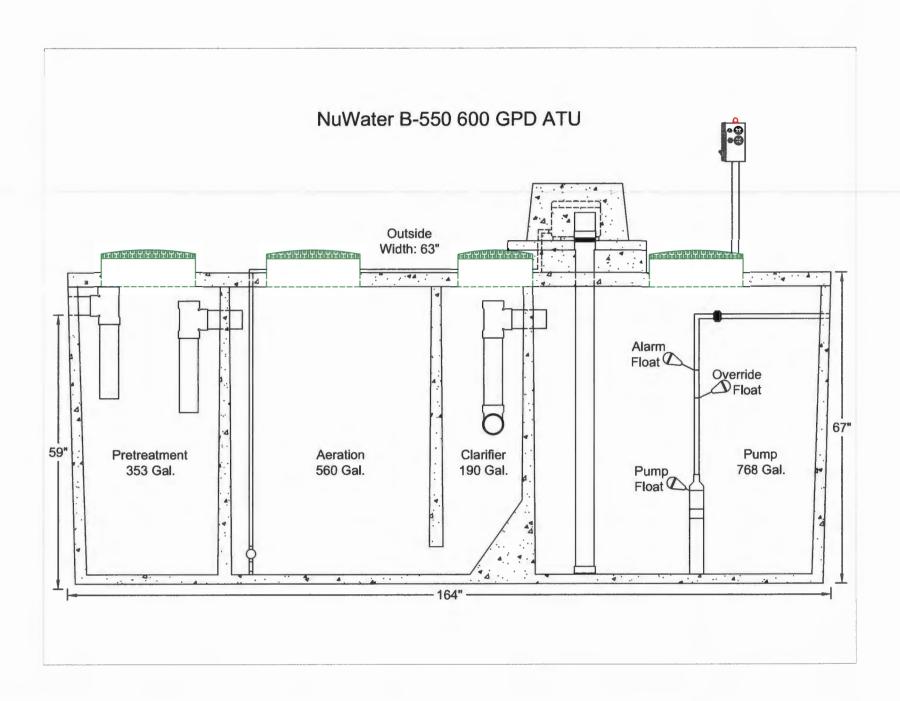
Wade A. Cloud, RS 4486 Blackwater Designs PO Box 228 Boerne, TX 78006

Date 210.900.2971











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 SJOOW 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

| ODDEI | | ICODI | ATION |
|--------|-----------|-------|--------|
| ייוערי | דו בזואול | VENUN | |
| UNULI | | ALONI | 1ATION |
| | | | |

| | | | | C1 Series 1 | Pumps | | |
|-----|-----|-------|-------|------------------|-----------|-------------|--------------|
| SPM | 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 | 115 | 5 | 20C1-05P4-2W115 | 90302005 | 25 | 16 |
| 20 | 10 | 230 | 5 | 20C1-05P4-2W230 | 90302010 | 25 | 16 |
| NAC | 1/2 | 115 | 6 | 20XC1-05P4-2W115 | 90302015 | 26 | 17 |
| 20X | | 230 | 6 | 20XC1-05P4-2W230 | 90302020 | 26 | 17 |
| 70 | | 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.



ProPlus™ Gear Driven Sprinkler Setting Instructions

SPRINKLER INSTALLATION

1 ► INSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. **NOTE:** Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

2▶ INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can. The filter is located on the bottom of the sprinkler assembly and can be easily pulled out, cleaned and re-installed.

3► WINTERIZATION TIPS

DEDEADINAL DATA

When using an air compressor to remove water from the system please note the following:

- a. Do not exceed 30 PSI.
- Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.
- c. Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 time faster on air than on water. Over spinning rotors on air can cause damage to the internal components.

rotors on air can cause dama

| NOZZLE | PRE | SSU | RE | RAD | DIUS | FLOW | / RATE | | PREC | IP in/h | r / mm | n/hr |
|--------------------------|----------------------|--------------------------|--------------------------|----------------------|------------------------------|--------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|--------------------|----------------------|
| | PSI | kPa | Bars | Ft. | М. | GPM | L/M | M ³ /H | | | | |
| #0.5 | 30 | 207 | 2.1 | 28 | 8.5 | 0.5 | 1.9 | 0.11 | 0.12 | 0.14 | 3 | 4 |
| | 40 | 276 | 2.8 | 29 | 8.8 | 0.6 | 2.3 | 0.14 | 0.14 | 0.16 | 3 | 4 |
| | 50 | 345 | 3.5 | 29 | 8.8 | 0.7 | 2.7 | 0.16 | 0.16 | 0.19 | 4 | 5 |
| | 60 | 414 | 4.1 | 30 | 9.1 | 0.8 | 3.0 | 0.18 | 0.17 | 0.20 | 4 | 5 |
| #0.75 | 30 40 50 60 | 207 275 344 413 | 2.1 2.8 3.4 4.1 | 29 30 31 32 | 8.8 9.1 9.4 9.8 | 0.7 0.8 0.9 1.0 | 2.7 3.0 3.4 3.8 | 0.16 0.18 0.20 0.23 | 0.16 0.17 0.18 0.19 | 0.19 0.20 0.21 0.22 | 4 4 5 5 | 5556 |
| #1.0 | 30 | 207 | 2.1 | 32 | 9.8 | 1.3 | 4.9 | 0.30 | 0.24 | 0.28 | 6 | 7 |
| | 40 | 275 | 2.8 | 33 | 10.1 | 1.5 | 5.7 | 0.34 | 0.27 | 0.31 | 7 | 8 |
| | 50 | 344 | 3.4 | 34 | 10.4 | 1.6 | 6.1 | 0.36 | 0.27 | 0.31 | 7 | 8 |
| | 60 | 413 | 4.1 | 35 | 10.7 | 1.8 | 6.8 | 0.41 | 0.28 | 0.33 | 7 | 8 |
| #2.0 | 30 | 207 | 2.1 | 37 | 11.3 | 2.4 | 9.1 | 0.55 | 0.34 | 0.39 | 9 | 10 |
| | 40 | 275 | 2.8 | 40 | 12.2 | 2.5 | 9.5 | 0.57 | 0.30 | 0.35 | 8 | 9 |
| | 50 | 344 | 3.4 | 42 | 12.8 | 3.0 | 11.4 | 0.68 | 0.33 | 0.38 | 8 | 10 |
| | 60 | 413 | 4.1 | 43 | 13.1 | 3.3 | 11.4 | 0.68 | 0.34 | 0.36 | 8 | 9 |
| 2.5 Pre- installed | 30 40 50 60 | 207 275 344 413 | 2.1 2.8 3.4 4.1 | 38 39 40 41 | 11.6 11.9 12.2 12.5 | 2.5 2.8 3.2 3.5 | 9.5 10.6 12.1 13.3 | 0.57 0.64 0.73 0.80 | 0.33 0.35 0.39 0.40 | 0.38 0.41 0.44 0.46 | 8 9 10 10 | 10 10 11 12 |
| #3.0 | 30 | 207 | 2.1 | 38 | 11.6 | 3.6 | 13.6 | 0.82 | 0.48 | 0.55 | 12 | 14 |
| | 40 | 275 | 2.8 | 39 | 11.9 | 4.2 | 15.9 | 0.96 | 0.53 | 0.61 | 14 | 16 |
| | 50 | 344 | 3.4 | 41 | 12.5 | 4.6 | 17.4 | 1.05 | 0.53 | 0.61 | 13 | 15 |
| | 60 | 413 | 4.1 | 42 | 12.8 | 5.0 | 19.0 | 1.14 | 0.55 | 0.63 | 14 | 16 |
| #4.0 | 30 | 207 | 2.1 | 43 | 13.1 | 4.4 | 16.7 | 1.00 | 0.46 | 0.53 | 12 | 13 |
| | 40 | 275 | 2.8 | 44 | 13.4 | 5.1 | 19.3 | 1.16 | 0.51 | 0.59 | 13 | 15 |
| | 50 | 344 | 3.4 | 46 | 14.0 | 5.6 | 21.2 | 1.27 | 0.51 | 0.59 | 13 | 15 |
| | 60 | 413 | 4.1 | 49 | 14.9 | 5.9 | 22.4 | 1.34 | 0.47 | 0.55 | 12 | 14 |
| #6.0 | 40 | 276 | 2.8 | 45 | 13.7 | 5.9 | 22.4 | 1.34 | 0.56 | 0.65 | 14 | 16 |
| | 50 | 344 | 3.4 | 46 | 14.0 | 6.0 | 22.7 | 1.36 | 0.55 | 0.63 | 14 | 16 |
| | 60 | 413 | 4.1 | 48 | 14.6 | 6.3 | 23.9 | 1.43 | 0.53 | 0.61 | 13 | 15 |
| | 70 | 482 | 4.8 | 49 | 14.9 | 6.7 | 25.4 | 1.52 | 0.54 | 0.62 | 14 | 16 |
| #8.0 | 40 | 276 | 2.8 | 42 | 12.8 | 8.0 | 30.3 | 1.82 | 0.87 | 1.01 | 22 | 26 |
| | 50 | 344 | 3.4 | 45 | 13.7 | 8.5 | 32.2 | 1.93 | 0.81 | 0.93 | 21 | 24 |
| | 60 | 413 | 4.1 | 49 | 14.9 | 9.5 | 36.0 | 2.16 | 0.76 | 0.88 | 19 | 22 |
| | 70 | 482 | 4.8 | 50 | 15.2 | 10.0 | 37.9 | 2.27 | 0.77 | 0.89 | 20 | 23 |

LOW ANGLE PERFORMANCE DATA

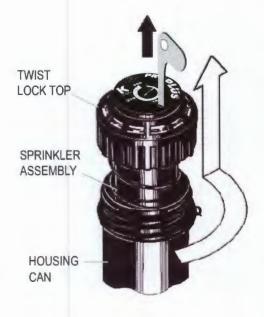
| NOZZLE | PRESSURE | | | RADIUS FLOW RATE | | | | PRECIP in/hr / mm/hr | | | | |
|--------|----------|-----|------|------------------|------|-----|------|----------------------|------|------|----|----|
| | PSI | kPa | Bars | Ft. | Μ. | GPM | L/M | M ³ /H | | | | |
| #1.0 | 30 | 207 | 2.1 | 22 | 6.7 | 1.2 | 4.5 | .27 | 0.48 | 0.55 | 12 | 14 |
| | 40 | 276 | 2.8 | 24 | 7.3 | 1.7 | 6.4 | .39 | 0.57 | 0.66 | 14 | 17 |
| | 50 | 345 | 3.4 | 26 | 7.9 | 1.8 | 6.8 | .41 | 0.51 | 0.59 | 13 | 15 |
| 0 | 60 | 414 | 4.1 | 28 | 8.5 | 2.0 | 7.6 | .45 | 0.49 | 0.57 | 12 | 14 |
| #3.0 | 30 | 207 | 2.1 | 29 | 8.8 | 3.0 | 11.4 | .68 | 0.69 | 0.79 | 17 | 20 |
| | 40 | 276 | 2.8 | 32 | 9.8 | 3.1 | 11.7 | .70 | 0.58 | 0.67 | 15 | 17 |
| | 50 | 345 | 3.4 | 35 | 10.7 | 3.5 | 13.2 | .80 | 0.55 | 0.64 | 14 | 16 |
| | 60 | 414 | 4.1 | 37 | 11.3 | 3.8 | 14.4 | .86 | 0.53 | 0.62 | 14 | 16 |
| #4.0 | 30 | 207 | 2.1 | 31 | 9.4 | 3.4 | 12.9 | .77 | 0.68 | 0.79 | 17 | 20 |
| | 40 | 276 | 2.8 | 34 | 10.4 | 3.9 | 14.8 | .89 | 0.65 | 0.75 | 17 | 19 |
| | 50 | 345 | 3.4 | 37 | 11.3 | 4.4 | 16.7 | 1.00 | 0.62 | 0.71 | 16 | 18 |
| | 60 | 414 | 4.1 | 38 | 11.6 | 4.7 | 17.8 | 1.07 | 0.63 | 0.72 | 16 | 18 |
| #6.0 | 40 | 275 | 2.8 | 38 | 11.6 | 6.5 | 24.6 | 1.48 | 0.87 | 1.00 | 22 | 25 |
| | 50 | 344 | 3.4 | 40 | 12.2 | 7.3 | 27.7 | 1.66 | 0.88 | 1.01 | 22 | 26 |
| | 60 | 413 | 4.1 | 42 | 12.8 | 8.0 | 30.3 | 1.82 | 0.87 | 1.01 | 22 | 26 |
| | 70 | 482 | 4.8 | 44 | 13.4 | 8.6 | 32.6 | 1.96 | 0.86 | 0.99 | 22 | 25 |

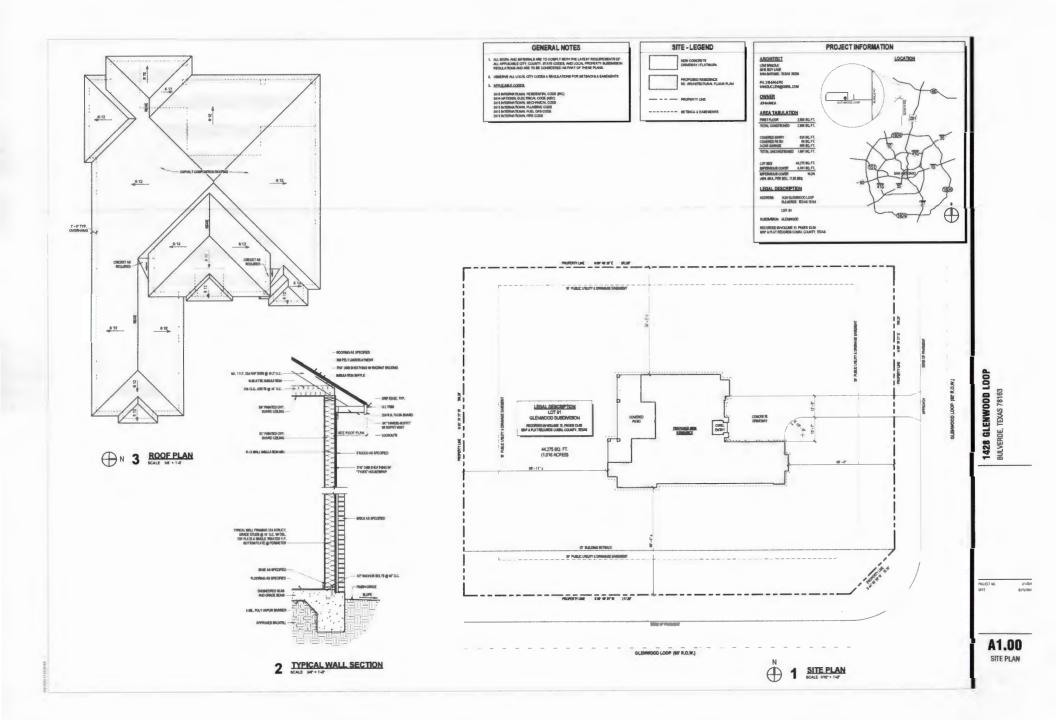
*All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° \$prinkler, divide by 2.

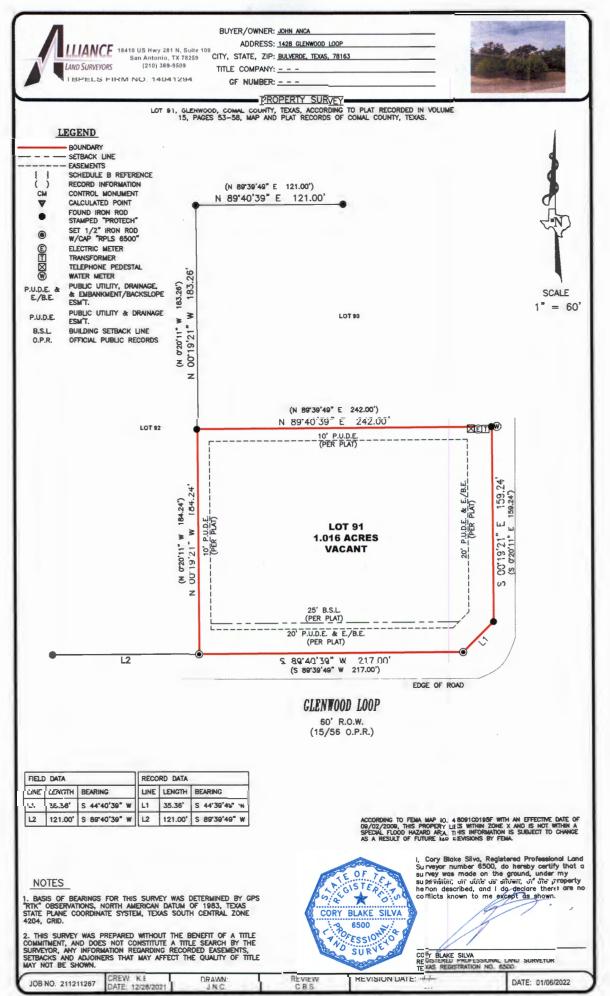


K-RAIN MANUFACTURING CORP. 1640 Australian Avenue Riviera Beach, FL 33404 USA PH: 561.844.1002 / 1.800.735.7246 FAX: 561.842.9493 www.krain.com

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April 11, 2022

John Anca 61 Rodalyn Dr Boerne, TX 78006

Re: Address Verification

To Whom It May Concern:

Please be advised the assigned address associated with the following property is:

| Property ID | Legal Description | Assigned Address |
|-------------|-------------------|---|
| 120846 | GLENWOOD, LOT 91 | 1428 GLENWOOD LOOP BULVERDE, TX 78163 |

Please display this address where it is visible from the road with 6" or larger reflective numbers so emergency personnel can easily locate the property should there be an emergency. Please check with your local post office to verify the correct city and zip code before using the assigned address for mailing purposes.

Should you have any questions or require additional information, please contact our office at any time.

Sincerely,

Cameron Cortez GIS Technician - Address Coordinator

Re: John Anca Glenwood Lot 91 Application for Permit for Authorization to Construct an On-Site Sewage Facility (OSSF)

Owner / Agent :

The following information is needed before I can continue processing the referenced permit submittal:

1. The address on the permit application is an expired address. Please contact Cameron Cortez, Comal County Address Coordinator, 830-608-2090, to resolve this issue. Be advised if there is an address change, the permit application and planning materials will need to be updated accordingly.

Thank you,



Brenda Ritzen

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org Good morning Brenda,

The applicant on permit # 114291 is using an expired address (1428 Glenwood Loop).

Sincerely,



CAMERON CORTEZ

GIS Technician – Address Coordinator 195 David Jones Drive New Braunfels, TX 78132 O: 830-608-2090 | F: 830-643-3810 | www.cceo.org 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: November 10, 2021

Grantor:

Gustavo E. Rodriguez and Rosa N. Rodriguez

Grantor's Mailing Address: 2403 Hendrull's (n/cs 1)n Sprikg 41. 77384

Grantee: John Anca

| Grantee's Mailing Address: | 1428 Glenwood Loop |
|----------------------------|-----------------------|
| | Bulverde, Texas 78163 |

Consideration: Ten and No/100 Dollars (\$10.00) and other good and valuable consideration the receipt and sufficiency of which are hereby acknowledged

Property (including any improvements):

LOT 91, GLENWOOD, COMAL COUNTY, TEXAS, ACCORDING TO PLAT RECORDED IN VOLUME 15, PAGES 53-58, MAP AND PLAT RECORDS OF COMAL COUNTY, TEXAS.

Reservations from Conveyance and Warranty: None

Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to any and all valid easements and rights of way of record, all presently recorded restrictions, reservations, covenants, conditions and other instruments other than liens and conveyances, filed of record, to the extent, if any, that they are valid and subsisting against the Property or any part thereof.

Grantor, for the consideration and subject to the reservations from and 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 wise belonging, to have and hold it to Grantee, Grantee's heirs, executors and administrators forever. Grantor binds Grantor and Grantor's heirs, executors and administrators to warrant and forever defend all and singular the Property to Grant's e and Grantee's successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to conveyance and warranty.

Ad valorem taxes and assessments attributable to the year 2021 have been prorated between Grantor and Grantee as of the date of this General Warranty Deed and Grantee hereby expressly assumes and agrees to pay the same for the current year and subsequent years.

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

GRANTOR: Gustavo E. Rodriguez 11/10/2021 Resa D. Roliques

THE STATE OF TEXAS

COUNTY OF BEXAR Hamis

The foregoing instrument was acknowledged before me this 10 day of Alow. 2021, by Gustavo E. Rodriguez, in his individual capacity.

Mar J. Michuson Notary Public, State of Texas

MAE J HICKERSON Notary 10 #126332003 Ny Commission Expires Nevember 21, 2023 1

§

ş

THE STATE OF TEXAS COUNTY OF BEXAR Harris \$

The foregoing instrument was acknowledged before me this <u>10</u> day of <u>Nor</u>. 2021, by Rosa N. Rodriguez, in her individual capacity.

2

a & product out to a

ATY ID #1261320 ion Expires

Mal Q. Nichusm Notary Public, State of Texas

AFTER RECORDING, PLEASE RETURN TO: Chicago Title of Texas, LLC Attn: Jodi Markwardt 15727 Anthem Parkway, Ste. 210 San Antonio, Texas 78249

> Filed and Recorded **Official Public Records** Bobbie Koepp, County Clerk **Comal County**, Texas 11/12/2021 01:15:20 PM TERRI 2 Pages(s) 202106058830



....

| RECEIVED By KG at 12:19 pm, Apr 01, 2022 | | | 1428 Glenwood Lp | |
|---|---|----------|------------------|--|
| ENGINEER'S OFFICE | OSSF DEVELOPMENT APPLICATION CHECKLIST Staff will complete shaded items | | | |
| and the second | | | 114291 | |
| | Date Received | Initials | Permit Number | |

Instructions:

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

OSSF Permit

Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate Repair, Customer

Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer Repair

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. Repair

Required Permit Fee - See Attached Fee Schedule Repair

Copy of Recorded Deed Repair, Customer

Surface Application/Aerobic Treatment System

Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public Repair, Customer

Signed Maintenance Contract with Effective Date as Issuance of License to Operate Repair, Customer

I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application.

Signature of Applicant

| 03/25/2022 |
|------------|
| Date |

| CO | MPLETE APPLICATION |
|-----------|--------------------|
| Check No. | Receipt No |

INCOMPLETE APPLICATION – (Missing Items Circled, Application Refeused)

Revised: September 2019