

Comal County Environmental Health

OSSF Inspection Sheet

Installer Name: _____

OSSF Installer #: _____

1st Inspection Date: _____

2nd Inspection Date: _____

3rd Inspection Date: _____

Inspector Name: _____

Inspector Name: _____

Inspector Name: _____

Permit#:

Address:

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)				
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)				
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(B) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(A) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(I)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

Inspector Notes:

**Comal County Environmental Health
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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If Single Tank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements		285.32(b)(1) (E) 285.91(2) 285.32(b)(1) (F) 285.32(b)(1)(E) (iii) 285.32(b)(1)(E)(ii) (II) 285.32(b)(1)(E)(ii) (I) 285.32(b)(1)(E) (i) 285.32(b)(1) (D) 285.32(b)(1)(C) (ii) 285.32(b)(1)(C) (i) 285.32(b)(1) (B) 285.32(b)(1) (A) 285.32(b)(1)(E)(iv)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
10	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed						
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(4) 285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
23	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
24	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
25	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed						
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
28	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
29	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
30	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturers spec.)		285.33(c)(2)				
31	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)				

**Comal County Environmental Health
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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
33	AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)				
34	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
37	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
38	PUMP TANK Secondary restraint system provided						
39	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						

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



COMAL COUNTY

ENGINEER'S OFFICE

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

Permit Number: 118031
Issued This Date: 11/06/2024
This permit is hereby given to: KAY KAMP

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

2142 SIERRA MADRE
CANYON LAKE, TX 78133

Subdivision: ENSENADA SHORES AT CANYON LAKE
Unit: 4
Lot: 78
Block: 0
Acreage: 1.0600

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.



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

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

Date October 14, 2024

Permit Number 118031

1. APPLICANT / AGENT INFORMATION

Owner Name KAY KAMP
Mailing Address 4435 RICHMOND FOSTER ROAD
City, State, Zip RICHMOND, TEXAS 77406
Phone # 713-252-2226
Email chance@alloutoffroad.com

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

2. LOCATION

Subdivision Name ENSENADA SHORES AT CANYON LAKE Unit 4 Lot 78 Block
Survey Name / Abstract Number Acreage
Address 2142 SIERRA MADRE City CANYON LAKE State TX Zip 78133

3. TYPE OF DEVELOPMENT

☒ Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) HOUSE

Number of Bedrooms 5

Indicate Sq Ft of Living Area 3800

☐ Non-Single Family Residential

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants

Restaurants, Lounges, Theaters - Indicate Number of Seats

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds

Travel Trailer/RV Parks - Indicate Number of Spaces

Miscellaneous

Estimated Cost of Construction: \$ 750,000 (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

☐ Yes ☒ No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water ☒ Public ☐ Private Well ☐ Rainwater Collection

4. SIGNATURE OF OWNER

By signing this application, I certify that:

- The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities.
- I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Kay Kamp
Signature of Owner

10-16-24
Date

#118031



COMAL COUNTY
ENGINEER'S OFFICE

REVISED

8:51 am, Aug 27, 2025

ENSENADA SHORES AT CANYON LAKE, UNIT 4, LOT 78

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

ON-SITE SEWAGE FACILITY APPLICATION

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

System Description PROPRIETARY; AEROBIC TREATMENT AND SURFACE IRRIGATION

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

Tank Size(s) (Gallons) POLYPURE P120-4060 1209pd Absorption/Application Area (Sq Ft) 6433

Gallons Per Day (As Per TCEQ Table 111) 360

(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 ☒ 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

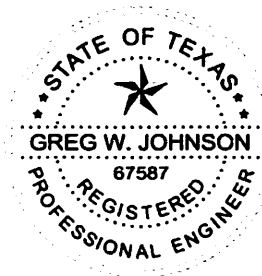
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)

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 UP has been approved by the appropriate reg

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

If yes, indicate the city: _____



FIRM #2585

By signing this application, I certify that:

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

[Signature]
Signature of Designer

October 16, 2024
Date

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

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

I

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

II

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

4 (UNIT) PHASE/SECTION BLOCK 78 LOT ENSENADA SHORES AT CANYON LAKE SUBDIVISION

IF NOT IN SUBDIVISION: ACREAGE SURVEY

The property is owned by (insert owner's full name): KAY KAMP

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

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

WITNESS BY HAND(S) ON THIS 16th DAY OF October, 2024

Kay Kamp
Owner(s) signature(s)

KAY KAMP
Owner (s) Printed name (s)

KAY KAMP SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 16th DAY OF October, 2024

Angel Stallings
Notary Public Signature



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
10/23/2024 04:28:37 PM
TERRI 1 Pages(s)
202406032384



Bobbie Koepp

WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Regulatory Authority COMAL

Block Creek Aerobic Services, LLC

444 A Old Hwy #9

Comfort, TX 78013

Off. (830) 995-3189

Fax. (830) 995-4051

Permit/License Number _____

Customer KAY KAMP

Site Address 2142 SIERRA MADRE

City CANYON LAKE Zip 78133

Mailing Address _____

County COMAL Map # CCEO 29, C6

Phone _____

Email _____

ENSENADA SHORES AT CANYON LAKE,

UNIT 4, LOT 78

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between KAY KAMP (hereinafter referred to as "Customer") and Block Creek Aerobic Services, LLC. By this agreement, Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein.

II. Effective Date:

This Agreement commences on LTO and ends on _____ for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

III. Termination of Agreement:

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

IV. Services:

Contractor will:

a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: control panel, Electrical circuits, timer, Aeration including compressor and diffusers, CFM/PSI measured, lids safety pans, pump, compressor, sludge levels, and anything else required as per the manufacturer.

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

c. Repair or replace, if Contractor has the necessary materials at site, any component of the OSSF found to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and the service(s) cost less than \$100.00, Customer hereby authorizes Contractor to perform the service(s) and bill Customer for said service(s). When service costs are greater than \$100.00, or if contractor does not have the necessary supplies at the site, Contractor will notify Customer of the required service(s) and the associated cost(s). Customer must notify Contractor of arrangements to affect repair of system 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 services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

V. Disinfection:

KK

RC



Customer's Initials

Contractor'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):

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

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

VIII. Customer's Responsibilities:

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

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

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

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

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

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

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

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

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

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

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

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

IX. Access by Contractor:

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

X. Limit of Liability:

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

XI. Indemnification:

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

KK

RC



Customer's Initials

Contractor's Initials

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

Customer hereby waives its right of recourse as to any Indemnitee when Indemnification applies, and Customer shall require its insurer(s) to waive its/their right of subrogation to the extent such action is required to render such waiver of subrogation effective. Customer shall be subrogated to Indemnities with respect to all rights Indemnities may have against third parties with respect to matters as to which Customer provides indemnity and/or defense to Indemnities. No Indemnification is provided to Indemnities 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 Indemnities of and from any action that is subject to this Indemnification provision. Indemnities hereby covenant not to compromise or settle any claim or cause of action for which Customer has provided Indemnification without the consent of Customer.

XII. Severability:

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

XIII. Fee for Services:

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

XIV. Payment:

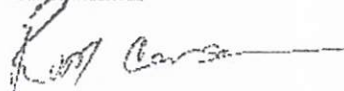
Full payment is due upon execution of this Agreement (Required of new Customer). For any other service(s) or repair(s) provided by Contractor the Customer shall pay the invoice(s) for said service(s) or repair(s) within thirty (30) days of the invoice date. The Contractor shall mail all invoices on the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

XV. Application or Transfer of payment:

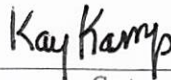
The fees paid for this agreement may be transferred to subsequent property owner(s); however, this Agreement is not transferable. Customer shall advise the subsequent property owner(s) of the State requirement that they sign a replacement agreement authorizing Contractor to perform the herein described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

XVI. Entire Agreement:

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


Rudy Carson

Block Creek Aerobic Services, LLC,
Contractor
MP# 0002036



Customer Signature

10-16-24

Date

KK

Customer's Initials



RC

Contractor's Initials

Greg W. Johnson, P.E.

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778

October 16, 2024

Comal County Office of Environmental Health

195 David Jonas Drive

New Braunfels, Texas 78132-3760

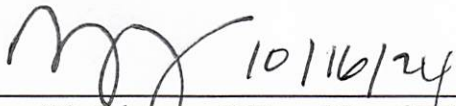
RE- SEPTIC DESIGN
2142 SIERRA MADRE
ENSENADA SHORES AT CANYON LAKE, UNIT 4, LOT 78
CANYON LAKE, TX 78133
KAMP RESIDENCE

Brandon/Brenda,

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

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

Designed in accordance with Chapter 285, Subchapter D, §285.40, 285.41, & 285.42, Texas Commission on Environmental Quality (Effective December 29, 2016).


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



ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: October 15, 2024

Site Location: ENSENADA SHORES at CANYON LAKE, UNIT 4, LOT 78

Proposed Excavation Depth: N/A

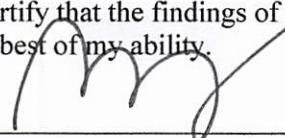
Requirements:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area.
Locations of soil boring or dug pits must be shown on the site drawing.
For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

SOIL BORING NUMBER <u> </u> SURFACE EVALUATION						
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	III	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 6"	BROWN
1						
2						
3						
4						
5						

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

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



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

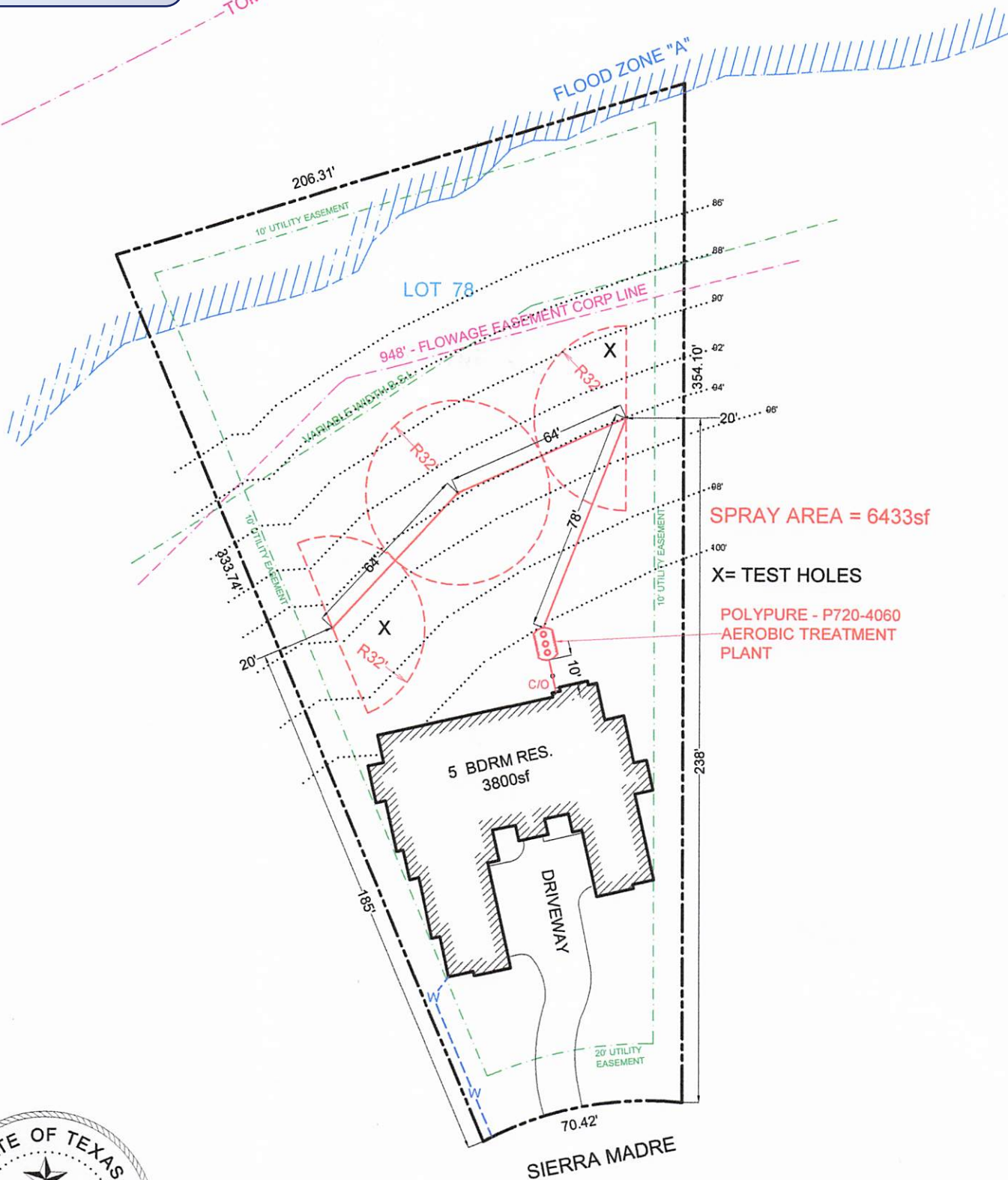
10/15/24

Date

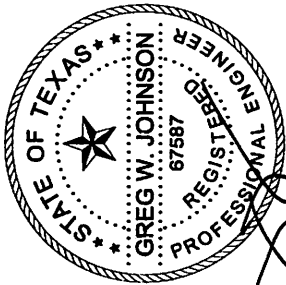
FIRM #2585

9:23 am, Aug 27, 2025

-TOM CREEK TRIBUTARY



OWNER: KAY KAMP		DRAWN BY: EJS III	
STREET ADDRESS: 2142 SIERRA MADRE			
LEGAL DESC: ENSENADA SHORES at CANYON LAKE		UNIT/SECTION/PHASE: 4	BLOCK: LOT: 78
PREPARED BY: GREG W. JOHNSON, P.E. F#002585		SCALE: 1"=50'	DATE: 10/16/2024 2nd REVISION: 8/22/2025



POLYPURE SYSTEMS, INC.

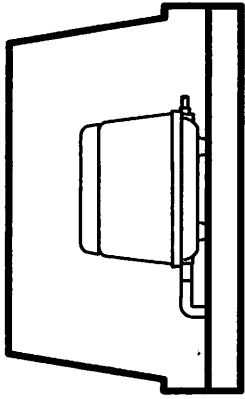
P-720-4060

SECTION VIEW

NTS

FIRM #2585

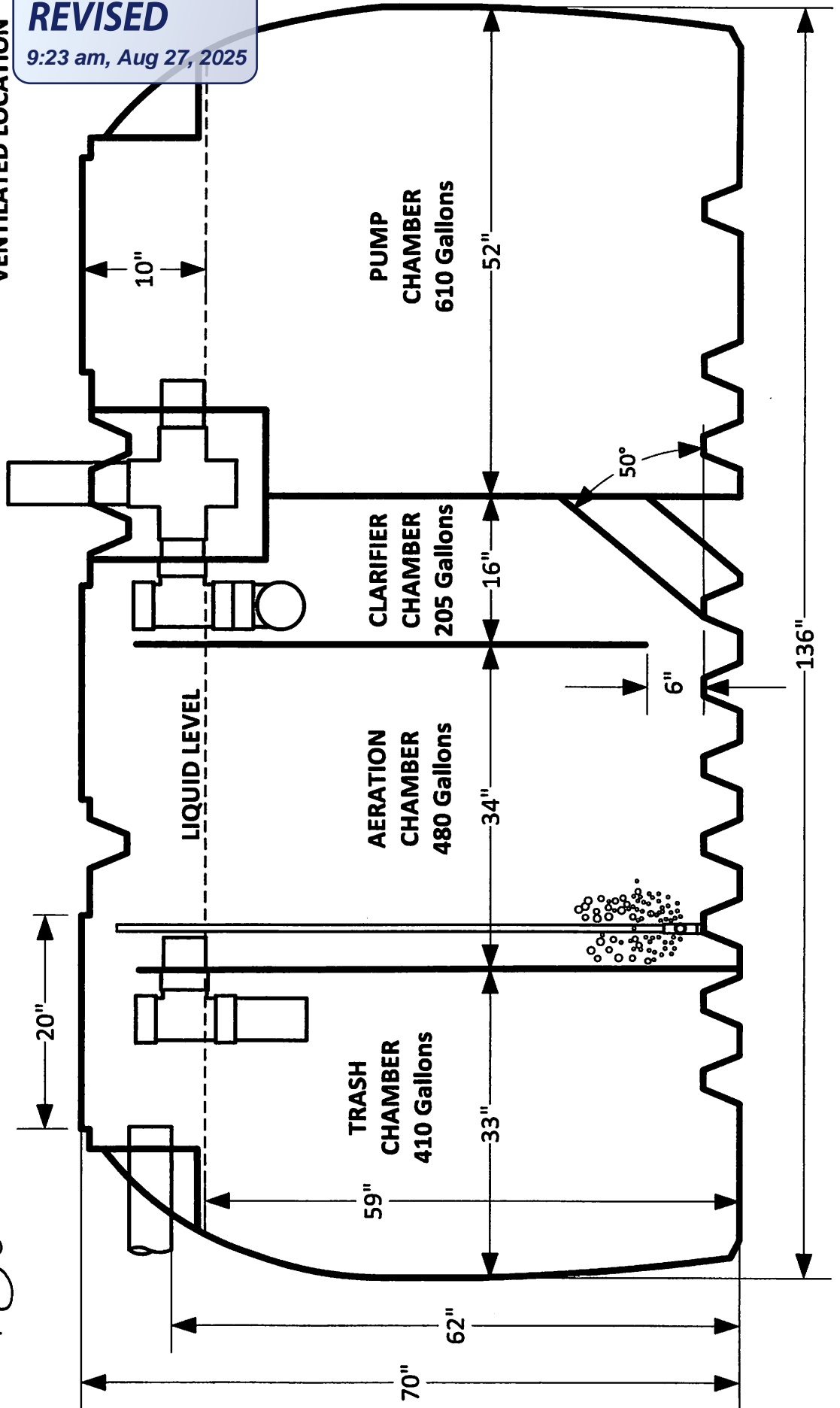
08/22/2025



AERATOR IN DRY
VENTILATED LOCATION

REVISED

9:23 am, Aug 27, 2025



Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 27, 2023

Mr. Ethan W. Cruse
PolyPure Systems, Inc.
5610 North US Highway 287
Alvord, TX 76225
ethancruse92@gmail.com

REVISED

9:23 am, Aug 27, 2025

Re: PureWater Product Line Approvals; P-650ONE and P-720-4060

Dear Mr. Cruse:

We have completed our review of the PureWater aerobic treatment system products listed in the table below. The listed products are approved for use in Texas. This approval is based on:

- The Gulf Coast Testing, LLC (GCT) issuance of the GCT Mark, certifying that PureWater P-600One's performance conforms with NSF Standard 40 for Class 1 effluent.
- The GCT issuance of the GCT Mark, certifying that the two listed products and their performance conform with the GCT certification based on the scaling report dated May 15, 2023.
- TCEQ approval of the training, operation, maintenance, and installation documents for the products that were approved on October 28, 2020 (see attached letter).

After reviewing the above testing reports and the previously-approved documents, TCEQ approves the PolyPure products listed below:

Model Name	Rated Capacity (gallons/day)	Combined Unit (including or separate trash and pump chambers)
P-650ONE	650	Including
P-720-4060	720	Including

Prior to listing the two new products on the TCEQ website, we need to receive updated documents that include the two new products by name.

REVISED

9:23 am, Aug 27, 2025

Ethan W. Cruse

Page 2, PureWater Product Line Approvals

This letter serves as proof of approval for the above-listed products until they are listed on the TCEQ website. If you have any questions or require clarification or additional information, please contact Donna Cosper, P.E. by email at donna.cosper@tceq.texas.gov.

Sincerely,

A handwritten signature in cursive script that reads "Joseph L. Hopkins".

Joseph L. Hopkins, P.G.

Technical Programs Team Leader

Program Support and Environmental Assistance Division

Texas Commission on Environmental Quality

JLH/DC

REVISED

9:23 am, Aug 27, 2025

TANK NOTES:

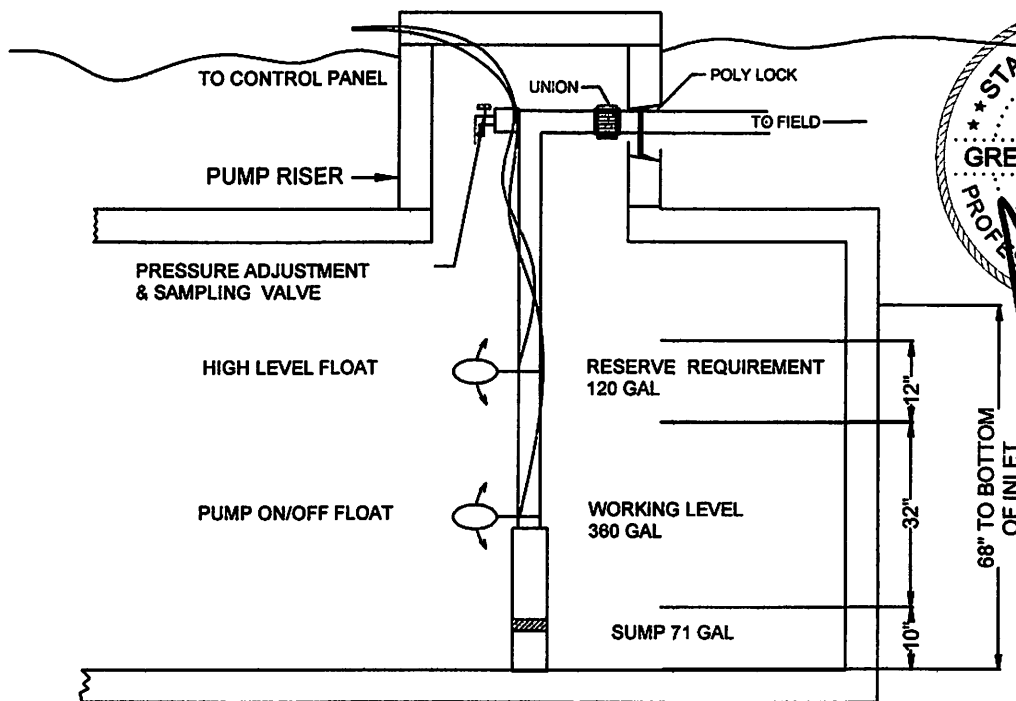
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

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



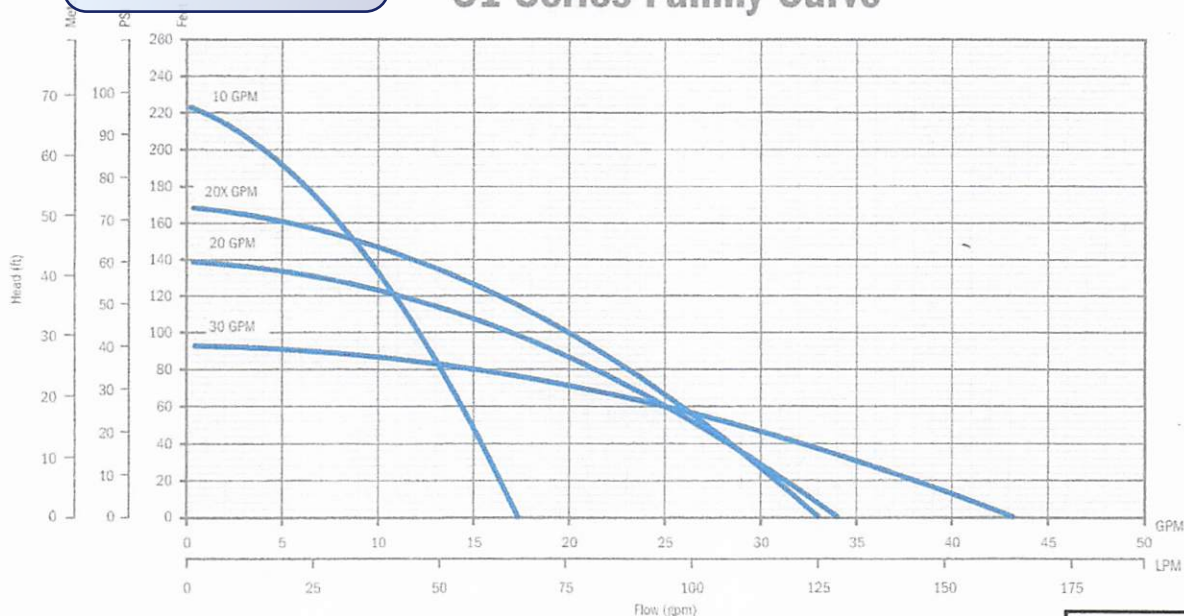
8/22/25
F#2585

TYPICAL PUMP TANK CONFIGURATION 610 GAL POLYPURE PUMP TANK

REVISED

9:23 am, Aug 27, 2025

C1 Series Family Curve



K RAIN PRO PLUS

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, 1/2 hp motor
- Field 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

LOW ANGLE NOZZLE PERFORMANCE

	U.S.				METRIC			
	Nozzle	Pressure PSI	Radius ft	Flow GPM	Pressure KPa Bars	Radius Meters	Flow L/M	Flow MPH
#1	30	22'	1.2	207	2.04	6.71	4.54	.34
	40	24'	1.7	275	2.72	7.32	5.43	.39
	50	26'	1.8	344	3.40	7.92	6.80	.41
	60	28'	2.0	413	4.08	8.53	7.56	.46
#3	30	29'	3.0	207	2.04	8.84	11.34	.68
	40	32'	3.1	275	2.72	9.75	11.72	.71
	50	35'	3.5	344	3.40	10.67	13.23	.80
	60	37'	3.8	413	4.08	11.58	14.36	.87
#4	30	31'	3.4	207	2.04	9.45	12.85	.78
	40	34'	3.9	275	2.72	10.36	14.74	.89
	50	37'	4.4	344	3.40	11.28	16.63	1.00
	60	38'	4.7	413	4.08	11.58	17.77	1.07
#6	40	38'	6.5	275	2.72	11.58	24.57	1.68
	50	40'	7.3	344	3.40	12.19	27.59	1.76
	60	42'	8.0	413	4.08	12.80	30.24	1.82
	70	44'	8.6	482	4.76	13.41	32.51	1.96

Data represents test results in zero wind for ProPlus. Adjust for local conditions.
Radius may be reduced with nozzle retention screw.

ORDERING INFORMATION

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

Note: All units have 10 foot long SJ00W leads.

CISTERN PUMPS CPM Series

REVISED

9:25 am, Aug 27, 2025

Ashland Pump – CPM Series

The Ashland Pump CPM Series is designed to operate in filtered effluent/gray water applications. The bottom suction design allows for maximum drawdown of fluid and the hydraulic stages are able to pass 1/8" solids without damage to the pump.

Installations in cistern tanks, rain basin catchments or anywhere drawdown levels need to be maximized are ideal applications for the Ashland Pump CPM Series.

APPLICATIONS

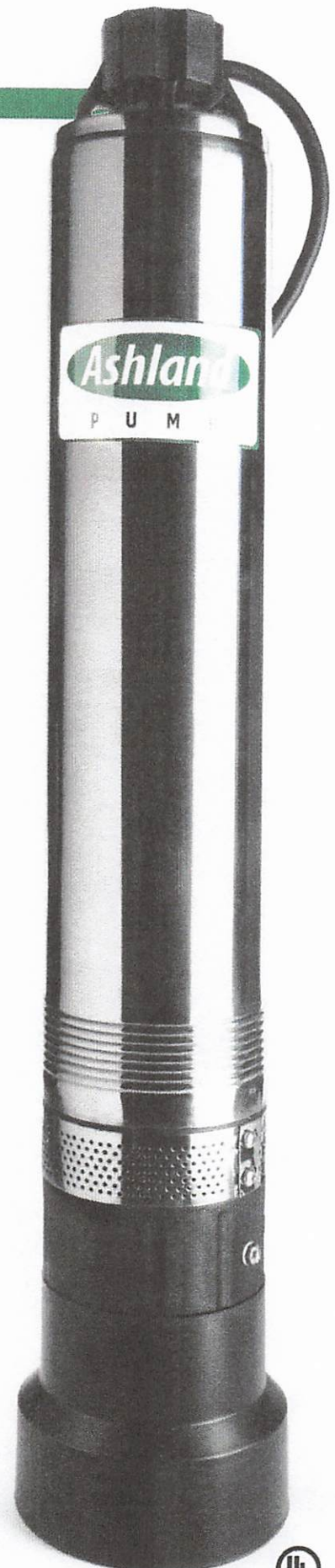
- Filtered Effluent Water Pumping
- Gray Water Pumping
- Water Feature / Aeration Applications
- Rain Water Basin Applications

FEATURES

- Bottom suction design for maximum drawdown
- Able to pass 1/8" solids
- Available in 10, 20 and 30 GPM flow rates
- ½ HP, 115V and 230V single phase motors
- Heavy duty discharge with stainless steel internal threads
- 600 Volt, 10' SJ00W jacketed lead
- High shut-off pressure
- Quiet operation
- Standard removable base for stable mounting

ORDERING INFORMATION

CPM SERIES CISTERN PUMP						
Model/Order No.	GPM	HP	Voltage/Ph.	Stage Count	Length (in.)	Shipping Wt. (lbs.)
10CPM5-115	10	1/2	115/1	7	26	17
10CPM5-230	10		230/1	7	26	17
20CPM5-115	20		115/1	5	25	16
20CPM5-230	20		230/1	5	25	16
20+CPM5-115	20+		115/1	6	26	17
20+CPM5-230	20+		230/1	6	26	17
30CPM5-115	30		115/1	4	25	16
30CPM5-230	30		230/1	4	25	16



STC GF# 2282822 MW

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: Effective as of April 11, 2024 regardless of the date(s) actually executed by the undersigned

Grantor: Natalie M. Evans and Aaron Evans, a married couple

Grantee: Kay Kamp
4435 Richmond Foster Rd.
Richmond, Texas 77406

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

Property (including any improvements): Lot 78, of ENSENADA SHORES AT CANYON LAKE UNIT 4, an addition in Comal County, Texas, according to the map or plat thereof recorded in/under County Clerk's File No. 200706015755 of the Map/Plat Records of Comal County, Texas.

Reservations from Conveyance: None.

Exceptions to Conveyance and Warranty: Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing restrictions, reservations, covenants, conditions, oil and gas leases, mineral interests, and water interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property; validly existing rights of adjoining owners in any walls and fences situated on a common boundary; any discrepancies, conflicts, or shortages in area or boundary lines; any encroachments or overlapping of improvements; and taxes for the current year, which Grantee assumes and agrees to pay, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.


Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any

DECLARATION OF AUTHENTICITY

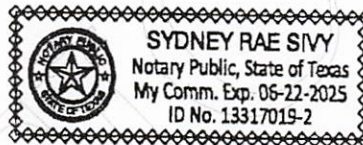
State of Texas
County of Comal

The attached document, General Warranty Deed,
dated April 11, 2024 and containing 2 pages, is a true and correct copy
of an electronic record printed by me or under my supervision. At the time of printing, no
security features present on the electronic record indicated any changes or errors in an
electronic signature or other information in the electronic record after the electronic record's
creation or execution. This declaration is made under penalty of perjury.

Signed this 11 day of April, 2024.


(seal of office)

(signature of notary public or other officer)



Sydney Sivy (printed name of notary public or other officer)
My commission expires: _____

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
04/11/2024 01:15:46 PM
LAURA 3 Pages(s)
202406010868



Bobbie Koepp

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. Additionally, this instrument may be executed in multiple counterparts and by different parties in separate counterparts, which, when taken together, shall constitute one original instrument.

Natalie M. Evans

Natalie M. Evans

Aaron Evans

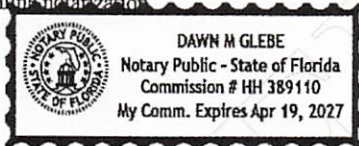
Aaron Evans

THE STATE OF Florida

COUNTY OF St. Johns

§
§
§

This instrument was acknowledged before me by means of an interactive two-way audio and video communication on this 11 day of April, 2024, by Natalie M. Evans. This notarial act was an online notarization.



Dawn M Glebe
Dawn M Glebe
Notary Public, State of Florida
Commission expires: 4/19/2027

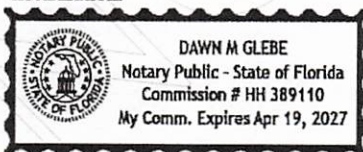
Completed via Remote Online Notarization using 2 way Audio/Video technology.

THE STATE OF Florida

COUNTY OF St. Johns

§
§
§

This instrument was acknowledged before me by means of an interactive two-way audio and video communication on this 11 day of April, 2024, by Aaron Evans. This notarial act was an online notarization.

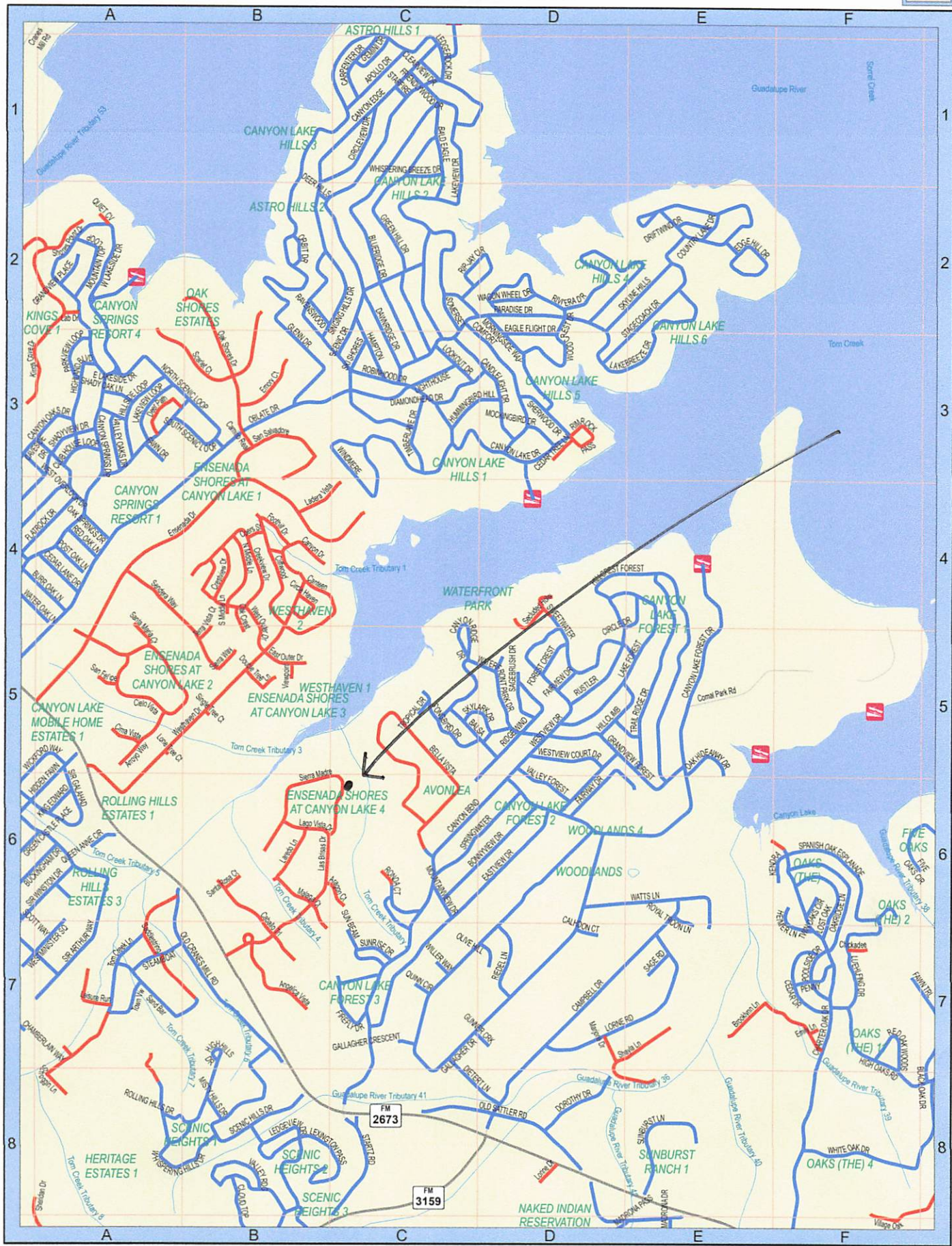


Dawn M Glebe
Dawn M Glebe
Notary Public, State of Florida
Commission expires: 4/19/2027

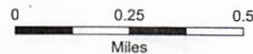
Completed via Remote Online Notarization using 2 way Audio/Video technology.

After Recording Return To:

Kay Kamp
4435 Richmond Foster Rd.
Richmond, Texas 77406



SEE PAGE 30



From: [Ritzen,Brenda](#)
To: [Greg Johnson](#)
Cc: [Susan Winters](#)
Subject: RE: 2142 SIERRA MADRE - KAMP #118031
Date: Thursday, August 7, 2025 10:16:00 AM
Attachments: [image001.png](#)

Greg,

The permit file has been updated.

Thank you,



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

From: Greg Johnson <gregjohnsonpe@yahoo.com>
Sent: Thursday, August 7, 2025 6:41 AM
To: Ritzen,Brenda <rabbjr@co.comal.tx.us>
Cc: Susan Winters <wintersseptics@gvvc.com>
Subject: 2142 SIERRA MADRE - KAMP #118031

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

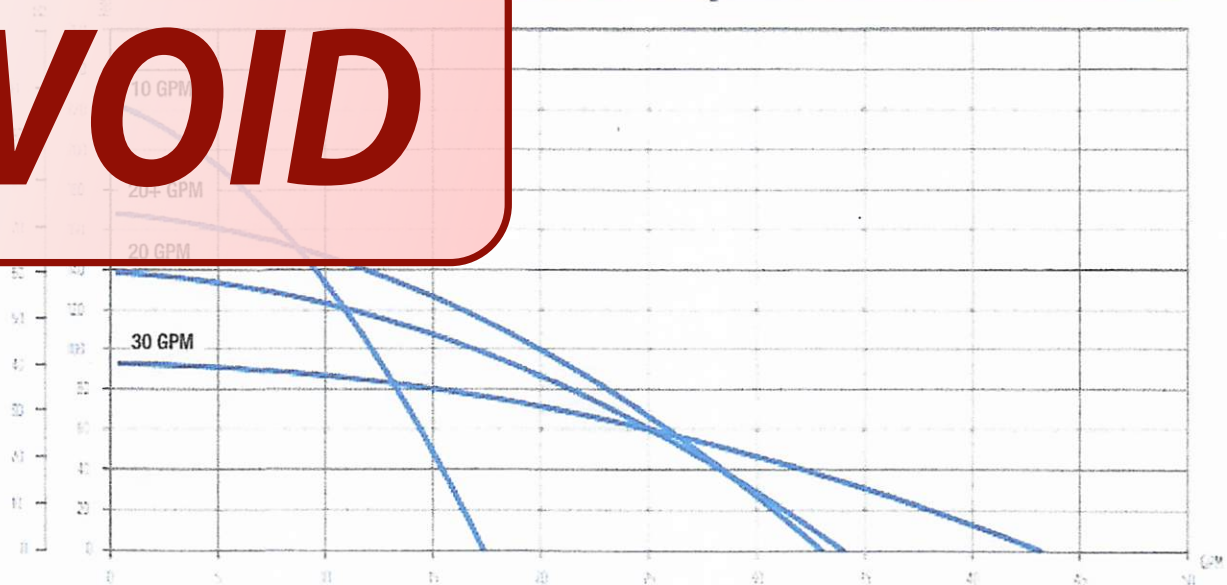
- Comal IT

REVISED.
THX,
GREG

Send for Greg W. Johnson, P.E.,R.S.)
170 Hollow Oak
New Braunfels, TX 78132

ASHLAND PUMP GPM SERIES CISTERN PUMP PERFORMANCE

VOID



Low Angle Performance Data

NOZZLE	PRESSURE			RADIUS		FLOW RATE		
	PSI	kPa	Bars	Ft.	M.	GPM	L/M	M ³ /H
#1.0	30	207	2.1	22	6.7	1.2	4.5	.27
	40	276	2.8	24	7.3	1.7	6.4	.39
	50	345	3.4	26	7.9	1.8	6.8	.41
	60	414	4.1	28	8.5	2.0	7.6	.45
#3.0	30	207	2.1	29	8.8	3.0	11.4	.68
	40	276	2.8	32	9.8	3.1	11.7	.70
	50	345	3.4	35	10.7	3.5	13.2	.80
	60	414	4.1	37	11.3	3.8	14.4	.86
#4.0	30	207	2.1	31	9.4	3.4	12.9	.77
	40	276	2.8	34	10.4	3.9	14.8	.89
	50	345	3.4	37	11.3	4.4	16.7	1.00
	60	414	4.1	38	11.6	4.7	17.8	1.07
#6.0	40	275	2.8	38	11.6	6.5	24.6	1.48
	50	344	3.4	40	12.2	7.3	27.7	1.66
	60	413	4.1	42	12.8	8.0	30.3	1.82
	70	482	4.8	44	13.4	8.6	32.6	1.96

*All precipitation rates calculated for 180° operation. For the precipitation rate for a 36

K
RAIN

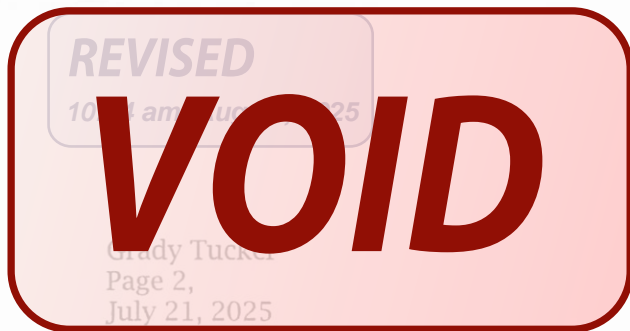


P U M P

Honest, Professional, Dependable

1899 Cottage Street, Ashland, Ohio 44805

Telephone: 855 281-6830 • Fax: 877 326-1994 • ashlandpump.com



- The proposed aerators (as shown in Table 2) to be used on the AK7.5S245CA will meet the requirements of Section 5.11 of Standards 40 and 245.

The AquaKlear Model AK7.5S245CA is a conventional activated sludge process with pretreatment, aeration, and clarification compartments. It utilizes the same aerator model as the tested unit, as shown in Table 2. The AquaKlear, Inc. Model AK6S245C treatment system was tested and approved with a Thomas EP-50AK aerator with a dual outlet blower. Based on the performance curves presented on the SPE352 GCT report for model AK6S245C, this aerator is expected to produce 1.5 cubic feet per minute (cfm) of air at a pressure of 2.5 pounds per square inch (psi). The AK7.5S245CA treatment system requires the same amount of aeration as the AK6S245C model.

	Model AK6S245C		Model AK7.5S245CA		
	600 gallons/day		750 gallons/day		
Compartment	Volume (Gallons)	HRT (Hours)	Volume (Gallons)	HRT (Hours)	Change %
Pretreatment	424	17.0	500	16.0	-5.7%
Aeration	520	20.8	633	20.3	-2.6%
Clarification	188	7.5	220	7.0	-6.4%

Table 1. Compartment Volume comparison, as cited in the Gulf Coast Testing (GCT) Supplemental Report for Model AK7.5S245CA, February 22, 2022

Model Number	Aerator	Diffuser
AK7.5S245CA	Thomas EP-50AK	Hiblow Model: 13A 300L

Table 2. Aerator and diffuser for AK7.5S245CA model, as cited in the Gulf Coast Testing (GCT) Supplemental Report for Model AK7.5S245CA, February 22, 2022

If you have any questions, or if we may be of assistance to you, please contact Cindy Rojas Annicchiarico in the TCEQ Technical Programs Team at (512) 239-5146 or via e-mail at Cindy.Annicchiarico@tceq.texas.gov.

Sincerely,

Joseph L. Hopkins, P.G.
Technical Programs Team Leader
Texas Commission on Environmental Quality

JLH/CRA

Brooke Paup, Chairwoman
Bobby Janecka, Vice President
Catarina R. Gonzalez, Commissioner
Kelly Keel, Executive Director

VOID

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 21, 2025

Mr. Grady Tucker, CEO
AquaKlear, Inc.
876 North Bierdeman Road,
Pearl, Mississippi, 39208

Re: Approval of proprietary OSSF system for:
AquaKlear, Inc.
Model AK7.5S245CA

Dear Grady Tucker:

We have received your request for a Texas Commission on Environmental Quality (TCEQ) review of the above-referenced proprietary system, with supporting documentation, on May 8, 2025. Cindy Rojas Annicchiarico of the TCEQ Technical Programs Team conducted the review, as required by 30 Texas Administrative Code (TAC) §285.5(b)(3). After reviewing your request and supporting documentation, TCEQ has determined that the AquaKlear AK7.5S245CA model treatment product meets the applicable technical requirements. **This letter serves as notification of approval for use in the State of Texas as an approved proprietary system.** Please be advised, the review of individual OSSF applications is a separate action and this letter is not an authorization to install an individual OSSF.

The Gulf Coast Testing (GCT) Supplemental Report SPE420, covering model AK7.5S245CA, dated February 22, 2022, analyzes the proposed scale-up of Model AK6S245C to treat 750 gallons per day under the provisions of NSF/ANSI Standard 40 (2020) and NSF/ANSI Standard 245 (2020). This approval for the model AK7.5S245CA is based on the GCT authorization, which states that its performance conforms to NSF Standard 40 for Class 1 residential wastewater effluent. It has been determined that the proposed Model AK7.5S245CA is proportionally equivalent to the tested unit, constructed of the same material, and has an equivalent flow system. This approval for the AK6S245C product is based on the GCT authorization that it and its performance conform with NSF Standard 40 for Class 1 residential wastewater effluent.

Important conclusions from the provided GCT report are as follows:

- The construction and design of the AK7.5S245CA treatment system are proportionately similar and substantially equivalent to the tested system. The volumes and retention time in hours (HRT) of the AK7.5S245CA treatment system are also proportionately similar and substantially equivalent to those of the tested system, as shown in Table 1, and thus meet or exceed the criteria of Section 8.5 of the Standard.
- The AquaKlear Model AK6S245C met the requirements of Standards 40 (2019) and 245 (2019) during concurrent testing, as presented in the SPE352 GCT report. Additionally, Models AK6S245C and AK7.5S245CA have a rated treatment capacity of 600 and 750 gallons per day, respectively, meeting the scope requirements of Section 1.2.
- The Model AK6S245C was used to evaluate the proposed model, as it is the smallest rated hydraulic capacity in its series, meeting the requirements of Section 1.4.

REVISED

10:14 am, Aug 07, 2025

VOID

TANK NOTES:

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

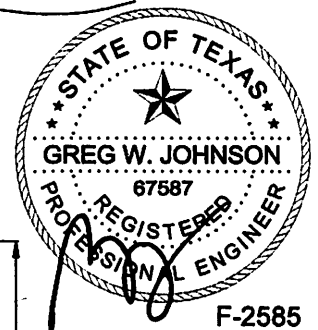
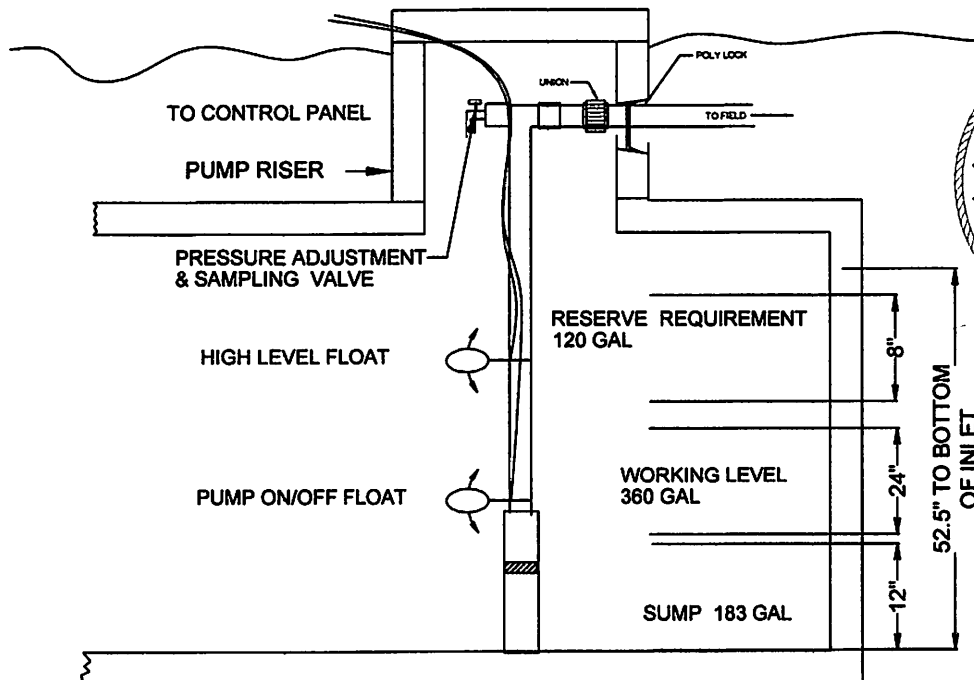
Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

Tanks must be left uncovered and full of water for inspection by the permitting authority.

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



08/07/25

**TYPICAL PUMP TANK CONFIGURATION
AQUAKLEAR AKA7.5 W/ 800 GAL PUMP TANK**



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

ENSENADA SHORES AT CANYON LAKE, UNIT 4, LOT 78

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

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

System Description PROPRIETARY; AEROBIC TREATMENT AND SURFACE IRRIGATION

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

Tank Size(s) (Gallons) MAXX AIR M800 Absorption/Application Area (Sq Ft) 6433

Gallons Per Day (As Per TCEQ Table 111) 50

(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 ☒ 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 UP has been approved by the appropriate reg

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

If yes, indicate the city: _____



FIRM #2585

By signing this application, I certify that:

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

[Signature]
Signature of Designer

October 16, 2024
Date

#118031



COMAL COUNTY
ENGINEER'S OFFICE

ENSENADA SHORES AT CANYON LAKE, UNIT 4, LOT 78

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

VOID

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

System Description PROPRIETARY, AEROBIC TREATMENT AND SURFACE IRRIGATION

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

Tank Size(s) (Gallons) AQUAKLEAR AK-7.5 150 gpcd Absorption/Application Area (Sq Ft) 6433

Gallons Per Day (As Per TCEQ Table 111) 360

(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 ☒ 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

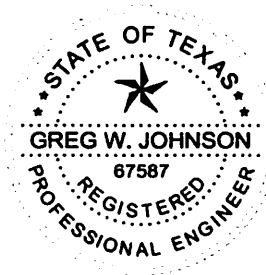
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- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

[Signature]
Signature of Designer

October 16, 2024
Date

OSSE SOIL EVALUATION REPORT INFORMATION

Date: October 16, 2024

Applicant Information:

Name: KAY KAM

Address: 4435 RICHMOND FOSTER ROAD

City: RICHMOND State: TEXAS

Zip Code: 77406 Phone: (713) 253-3333

Site Evaluator Information

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

Address: 7100 Oak

City: San Antonio State: Texas

Zip Code: 78122 Phone & Fax: (830)905-2778

VOID

Property Location:

Lot 78 Unit 4 Blk Subd.

Street Address: 2142 SIERRA MADRE

City: CANYON LAKE Zip Code: 78133

Additional Info.:

Installer Information:

Name:

Company:

Address:

City: State:

Zip Code: Phone

Topography: Slope within proposed disposal area: 10 to 15 %

Presence of 100 yr. Flood Zone: YES X NO

Existing or proposed water well in nearby area: YES NO X

Presence of adjacent ponds, streams, water impoundments YES X NO >75' from CREEK

Presence of upper water shed YES NO X

Organized sewage service available to lot YES NO X

Design Calculations for Aerobic Treatment with Spray Irrigation:

Commercial

Q = GPD

Residential Water conserving fixtures to be utilized? Yes X No

Number of Bedrooms the septic system is sized for: 5 Total sq. ft. living area 3800

Q gal/day = (Bedrooms +1) * 75 GPD - (20% reduction for water conserving fixtures)

Q = (5 +1)*75-(20%)= 360

Trash Tank Size 431 Gal.

TCEQ Approved Aerobic Plant Size 800 G.P.D.

Req'd Application Area = Q/Ri = 360 / 0.064 = 5625 sq. ft.

Application Area Utilized = 6433 sq. ft.

Pump Requirement 12 Gpm @ 41 Psi (Redjacket 0.5 HP 18 G.P.M. series or equivalent)

Dosing Cycle: ON DEMAND or X TIMED TO DOSE IN PREDAWN HOURS

Pump Tank Size = 854 Gal. 16.1 Gal/inch.

Reserve Requirement = 120 Gal. 1/3 day flow.

Alarms: Audible & Visual High Water Alarm & Visual Air Pump malfunction

With Chlorinator NSF/TCEQ APPROVED

SCH-40 or SDR-26 3" or 4" sewer line to tank

Two way cleanout

Pop-up rotary sprinkler heads w/ purple non-potable lids

1" Sch-40 PVC discharge manifold

APPLICATION AREA SHOULD BE SEEDED AND MAINTAINED WITH VEGETATION.

EXPOSED ROCK WILL BE COVERED WITH SOIL .

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

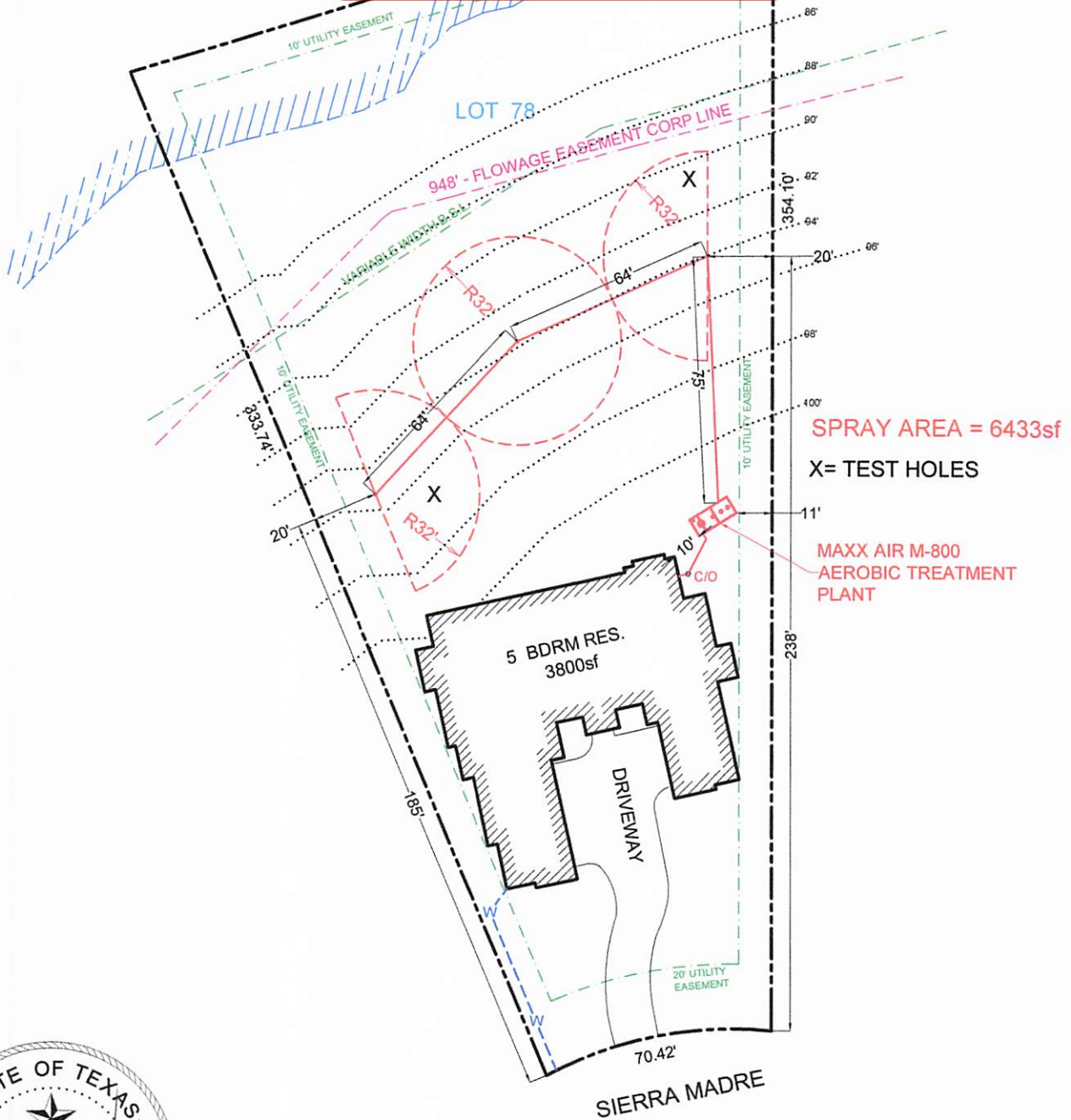
GREG W. JOHNSON, P.E. F#002585 - S.E. 11561

10/16/24
DATE



FIRM #2585

VOID

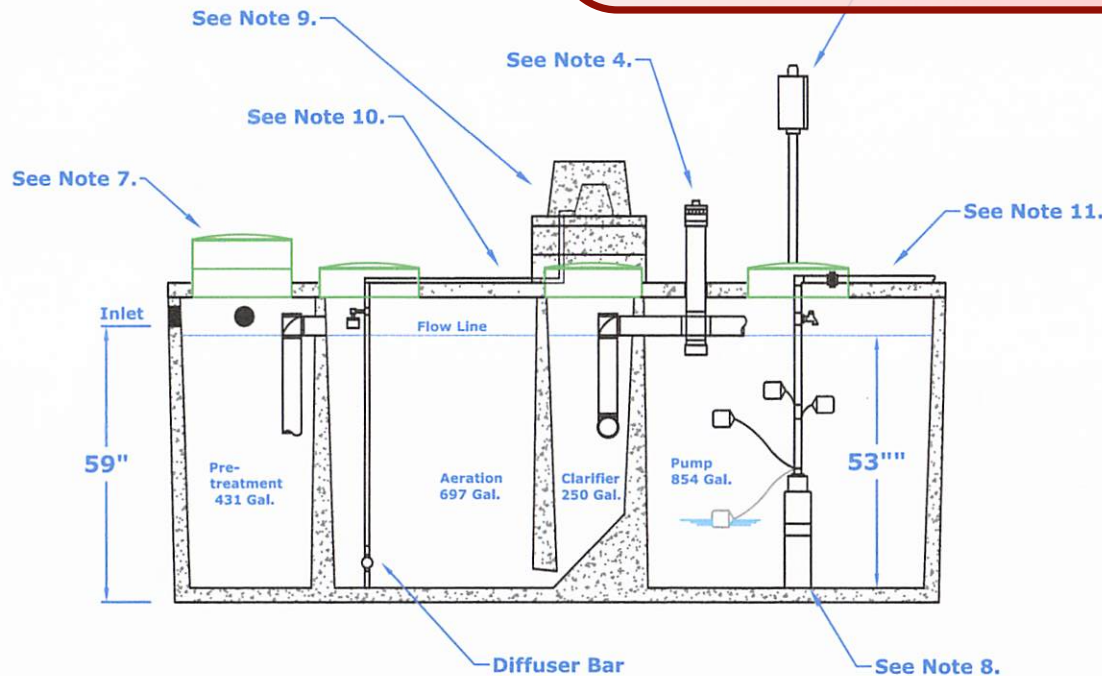


OWNER: KAY KAMP					DRAWN BY: EJS III	
STREET ADDRESS: 2142 SIERRA MADRE						
LEGAL DESC: ENSENADA SHORES at CANYON LAKE			UNIT/SECTION/PHASE: 4		BLOCK:	LOT: 78
PREPARED BY: GREG W. JOHNSON, P.E. F#002585			SCALE: 1"=50'	DATE: 10/16/2024		REVISED:

VOID

GENERAL NOTES:

1. Plant structure material to be precast concrete and steel.
2. Weight = 16,700 lbs.
3. Treatment capacity is 600 GPD. BOD Loading = 2.60 lbs. per day.
4. Standard tablet chlorinator or Optional Liquid chlorinator.
5. NSF approved chlorinators (tablet & liquid) available.
6. Control Center w/ Timer for night spray application.
7. 20" Ø access riser w/ lid (Typical 4). Optional extension risers available.
8. 20 GPM 1/2 HP, high head effluent pump.
9. 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 contractor.



F-2585

10/16/21

DIMENSIONS:

Outside Height: 67"
Outside Width: 75"
Outside Length: 164.5"

MINIMUM EXCAVATION DIMENSIONS:

Width: 87"
Length: 177"

MAXX AIR M-800 Aerobic Treatment Plant (Assembled)

March, 2010
By: A.S.

Scale:

* All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B800-2

Advantage
Wastewater Solutions LLC

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

TANK NOTES:

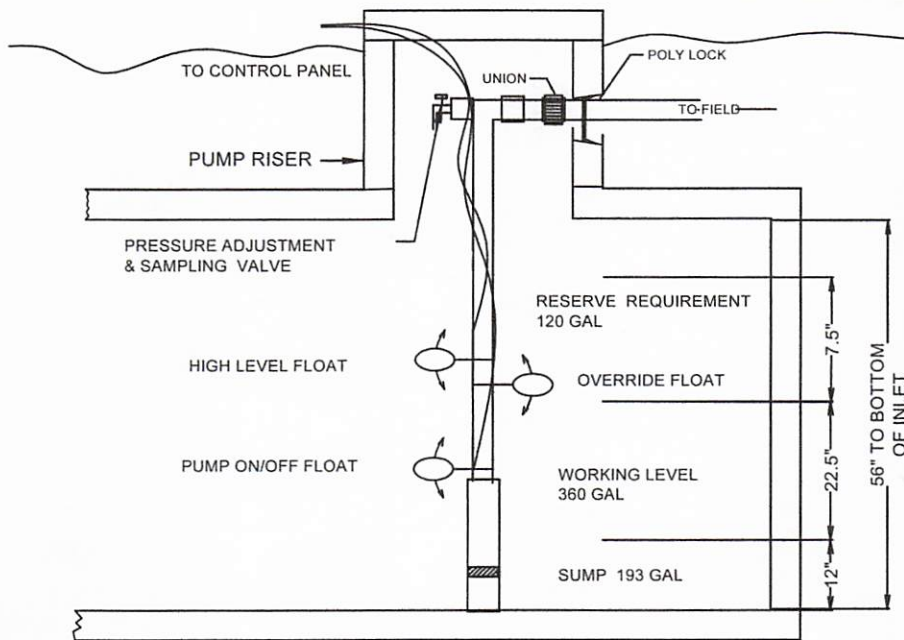
Tanks must be set to allow a minimum of 1/8" per foot fall from the end of the tank.

Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

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

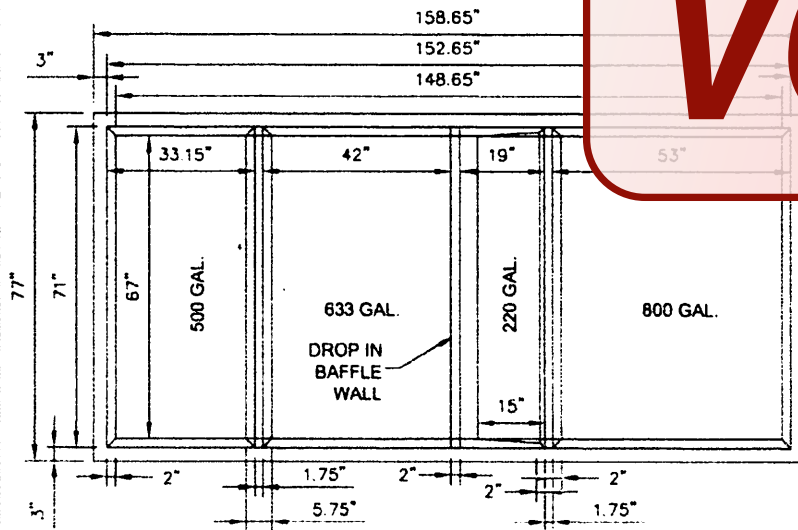


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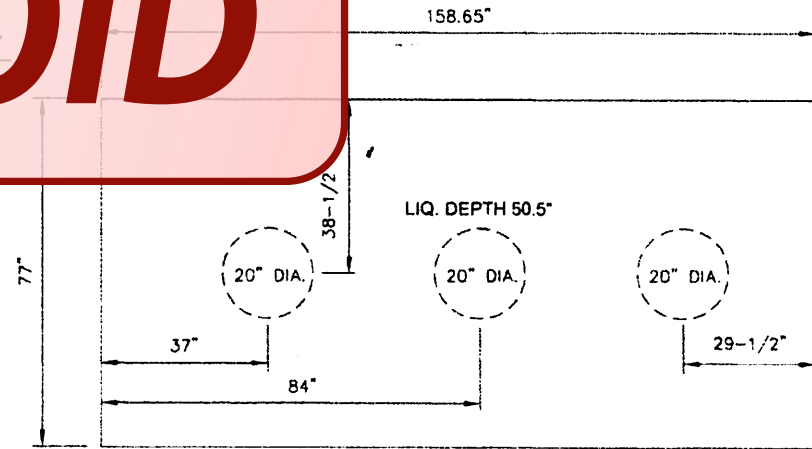
11/11/2023

TYPICAL PUMP TANK CONFIGURATION
MAXX AIR-M800 PUMP TANK

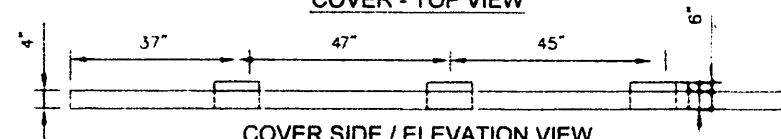
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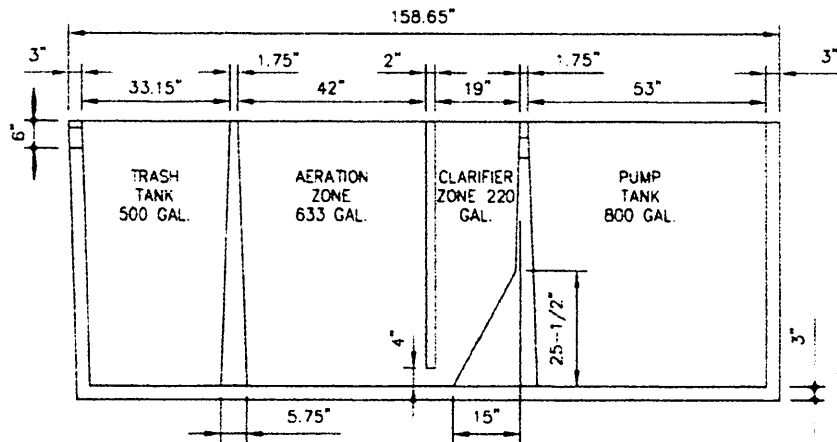
TOP VIEW



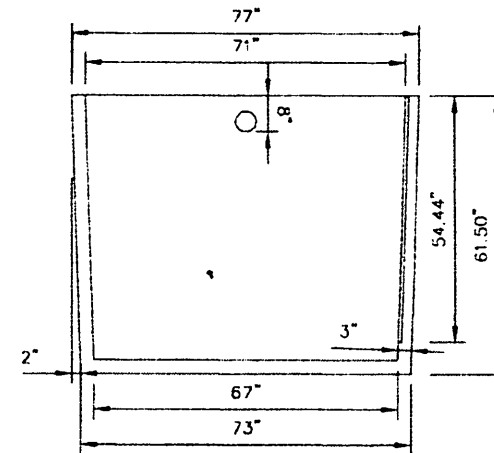
COVER - TOP VIEW



COVER SIDE / ELEVATION VIEW



SIDE / ELEVATION VIEW



END VIEW

AQUAKLEAR
WASTEWATER TREATMENT SYSTEM

MODEL AK7.5S245CA

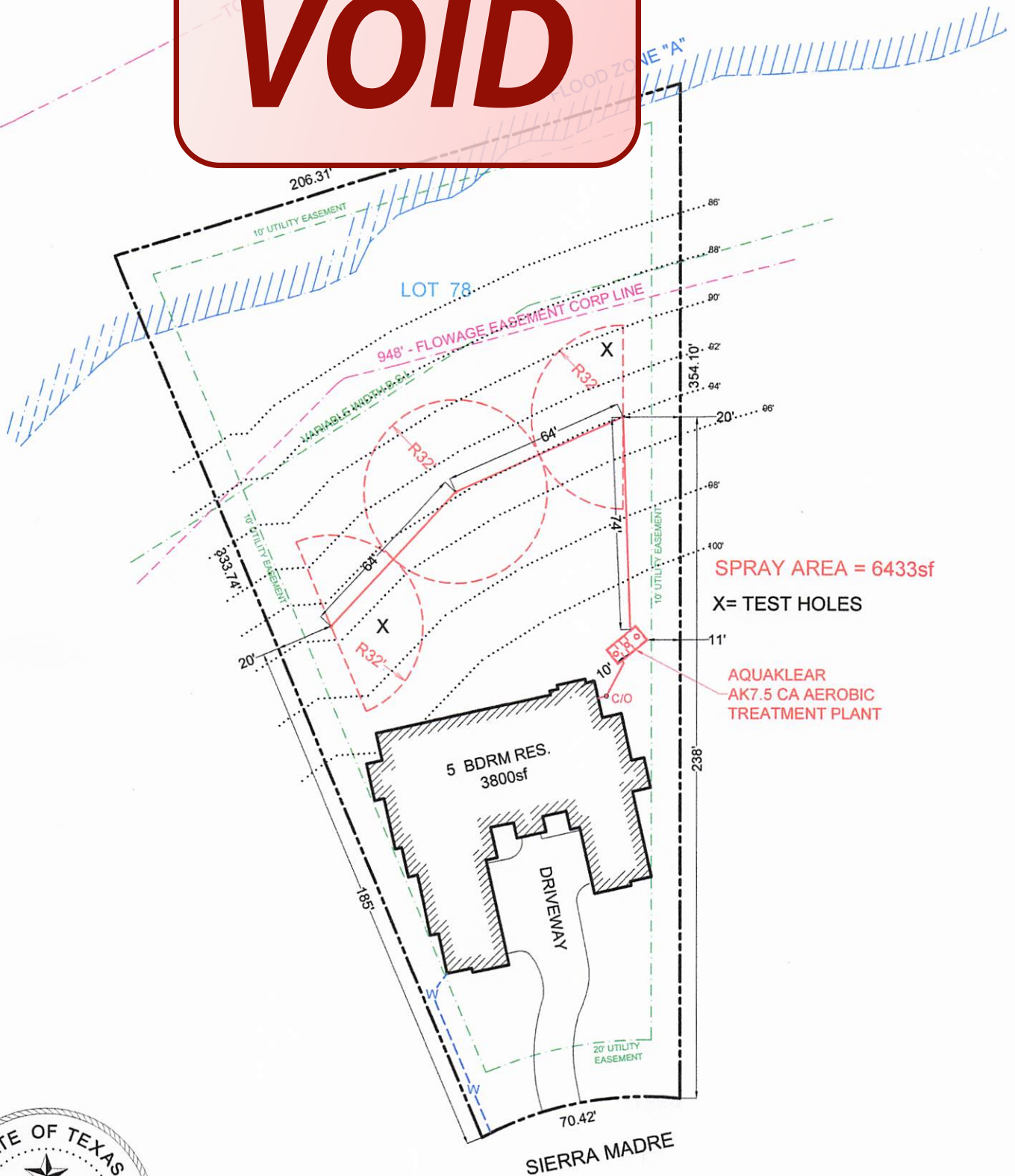
NOT TO SCALE

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1 of 1



VOID



OWNER: KAY KAMP				DRAWN BY: EJS III	
STREET ADDRESS: 2142 SIERRA MADRE					
LEGAL DESC: ENSENADA SHORES at CANYON LAKE			UNIT/SECTION/PHASE: 4	BLOCK:	LOT: 78
PREPARED BY: GREG W. JOHNSON, P.E. F#002585		SCALE: 1"=50'	DATE: 10/16/2024		REVISED: 8/7/2025

OS&E SOIL EVALUATION REPORT INFORMATION

Date: October 16, 2024

Applicant Information:

Name: KAY KAMP Address: 4435 RICHMOND FOSTER ROAD City: RICHMOND State: TEXAS Zip Code: 77406 Phone: (713) 252-2226

Site Evaluation Information:

Name: Greg W. Johnson, P.E., R.S., S.E. 11561 Address: 170 Hollow Oak City: New Braunfels State: Texas Zip Code: 78132 Phone & Fax: (830) 905-2778

Property Location:

Lot 78 Unit 4 Blk Subd. CANYON LAKE
Street Address: 2142 SIERRA MADRE
City: CANYON LAKE Zip Code: 78133
Additional Info.:

ENSENADA SHORES at

Installer Information:

Name:
Company:
Address:
City: State:
Zip Code: Phone:

Topography: Slope within proposed disposal area: 10 to 15 %

Presence of 100 yr. Flood Zone: YES X NO
Existing or proposed water well in nearby area. YES NO X
Presence of adjacent ponds, streams, water impoundments YES X NO >75' from CREEK
Presence of upper water shed YES NO X
Organized sewage service available to lot YES NO X

Design Calculations for Aerobic Treatment with Spray Irrigation:

Commercial

Q = GPD

Residential Water conserving fixtures to be utilized? Yes X No

Number of Bedrooms the septic system is sized for: 5 Total sq. ft. living area 3800

Q gal/day = (Bedrooms +1) * 75 GPD - (20% reduction for water conserving fixtures)

Q = (5 +1)*75-(20%) = 360

Trash Tank Size 500 Gal.

TCEQ Approved Aerobic Plant Size 750 G.P.D.

Req'd Application Area = Q/Ri = 360 / 0.064 = 5625 sq. ft.

Application Area Utilized = 6433 sq. ft.

Pump Requirement 12 Gpm @ 41 Psi (Redjacket 0.5 HP 18 G.P.M. series or equivalent)

Dosing Cycle: ON DEMAND or X TIMED TO DOSE IN PREDAWN HOURS

Pump Tank Size = 800 Gal. 15.23 Gal/inch.

Reserve Requirement = 120 Gal. 1/3 day flow.

Alarms: Audible & Visual High Water Alarm & Visual Air Pump malfunction

With Chlorinator NSF/TCEQ APPROVED

SCH-40 or SDR-26 3" or 4" sewer line to tank

Two way cleanout

Pop-up rotary sprinkler heads w/ purple non-potable lids

1" Sch-40 PVC discharge manifold

APPLICATION AREA SHOULD BE SEEDED AND MAINTAINED WITH VEGETATION.

EXPOSED ROCK WILL BE COVERED WITH SOIL .

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

GREG W. JOHNSON
GREG W. JOHNSON, P.E. F#002585 - S.E. 11561

10/16/24
DATE



FIRM #2585



COMAL COUNTY
ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION
CHECKLIST**

Staff will complete shaded items

		118031
<i>Date Received</i>	<i>Initials</i>	<i>Permit Number</i>

Instructions:

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

OSSF Permit

- ☒ Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate
- ☒ Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer
- ☒ Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.
- ☒ Required Permit Fee - See Attached Fee Schedule
- ☒ Copy of Recorded Deed
- ☒ Surface Application/Aerobic Treatment System
 - ☒ Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public
 - ☒ Signed Maintenance Contract with Effective Date as Issuance of License to Operate

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

Signature of Applicant

10/23/2024

Date

___ COMPLETE APPLICATION

Check No. _____ Receipt No. _____

INCOMPLETE APPLICATION

___ (Missing Items Circled, Application Refused)