

COMAL COUNTY

ENGINEER'S OFFICE

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: 01/27/2020 Permit Number: 109415

Location Description: 189 LAMPLIGHT
SPRING BRANCH, TX 78070

Subdivision: Cypress Cove
Unit: 5
Lot: 102
Block:
Acreage:

Type of System: Aerobic
Drip Irrigation

Issued to: The Source Real Estate Services, LLC

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

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

Alterations to this permit including, but not limited to:

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

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

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

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

Licensing Authority

Comal County Environmental Health


ENVIRONMENTAL HEALTH INSPECTOR

OS0032485


ENVIRONMENTAL HEALTH COORDINATOR
OS 0025599

Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Baker OSSF Installer #: 050032864
 1st Inspection Date: 04-03-19 2nd Inspection Date: _____ 3rd Inspection Date: 01-21-2020
 Inspector Name: Mike T Inspector Name: _____ Inspector Name: B. Olvera
 Permit#: 109415 Address: 189 Lamplight Cypress Cove

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)		04-03-19	01-21-20	
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)				

04-03-19

01-21-2020 BMO

Tank Set level ✓
need revision on Tank location

Operational
Ready for Cover

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If Single Tank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(E) 285.91(2) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(I) 285.32(b)(1)(E)(i) 285.32(b)(1)(D) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(i) 285.32(b)(1)(B) 285.32(b)(1)(A) 285.32(b)(1)(E)(iv)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
10	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed						
14	AEROBIC TREATMENT UNIT Size Installed	✓		Ratio 5060	04-03-19	01-21-20	
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number			600			
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

**Comal County Environmental Health
OSSF Inspection Sheet**

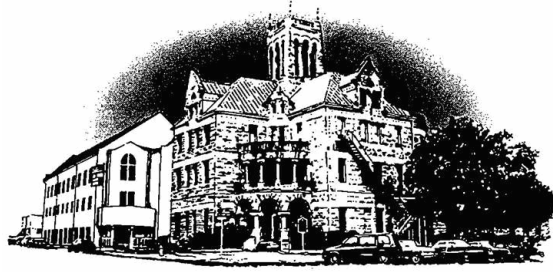
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 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
OSSF Inspection Sheet**

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

**Comal County Environmental Health
OSSF Inspection Sheet**

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

OFFICE OF COMAL COUNTY ENGINEER

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

Permit Number: 109415
Issued This Date: 07/24/2019
This permit is hereby given to: The Source Real Estate Services, LLC

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

189 LAMPLIGHT
SPRING BRANCH, TX 78070

Subdivision: Cypress Cove
Unit: 5
Lot: 102
Block:
Acreage:

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic
Drip Irrigation

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

Call (830) 608-2090 to schedule inspections.

REVISED
7:43 am, Sep 04, 2019

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

Date June 28, 2019

Permit # 109415

Owner Name THE SOURCE REAL ESTATE SERVICES LLC
Mailing Address 3303 NAVASOTA CIRCLE
City, State, Zip SAN ANTONIO TEXAS 78259
Phone# 210-304-0039
Email medlorenzo23@yahoo.com

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

All correspondence should be sent to: Owner Agent Both

Method: Mail Email

Subdivision Name CYPRESS COVE Unit/Phase/Section 5 Lot 102 Block _____
Acreage/Legal _____
Street Name/Address 189 LAMPLIGHT City SPRING BRANCH Zip 78070

Type of Development:

Single Family Residential

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

Number of Bedrooms 3

Indicate Sq Ft of Living Area 1506

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: \$ 185,000 (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

Are Water Saving Devices Being Utilized Within the Residence? Yes No

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.
- 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 also understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Owner

Date

2/15/19

#109415

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH

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

REVISED 7:43 am, Sep 04, 2019

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

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) PROFLO MODEL 5060 Absorption/Application Area (Sq Ft) 2000

Gallons Per Day (As Per TCEQ Table III) 240

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? [] Yes [X] No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

Is there an existing TCEQ approved WPAP for the property? [] Yes [X] No

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

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? [] Yes [] No

(If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? [X] Yes [] No

Is there an existing TCEQ approval CZP for the property? [] Yes [X] No

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

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? [] Yes [X] No

(if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? [] Yes [X] No

If yes, indicate the city: _____



FIRM #2585

By signing this application, I certify that:

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

Signature of Designer (handwritten signature)

Date July 2, 201

AFFIDAVIT



201906024553 07/17/2019 11:55:16 AM 1/1

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.

RECEIVED

II

JUL 17 2019

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):

COUNTY ENGINEER

5 UNIT/PHASE/SECTION BLOCK 102 LOT CYPRESS COVE SUBDIVISION

IF NOT IN SUBDIVISION: ACREAGE SURVEY

The property is owned by (insert owner's full name): THE SOURCE REAL ESTATE SERVICES, LLC,
a Texas limited liability company

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.

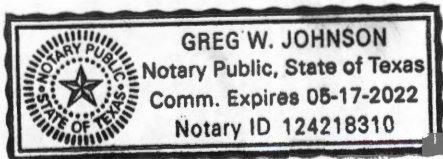
WITNESS BY HAND(S) ON THIS 16 DAY OF July, 20 19

[Signature]
Owner(s) signature(s)

LORENZO MEDINA - MANAGER
Owner (s) Printed name (s)

LORENZO MEDINA SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 16 DAY OF July, 20 19

[Signature]
Notary Public Signature



(Notary Seal Here)

THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
07/17/2019 11:55:16 AM
TERRI 1 Page(s)
201906024553



Bobbie Koepf

Baker Septic Service, LLC
15375 Cranes Mill Rd., Canyon Lake, TX 78133
830-899-2971

Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: The Source Real Estate Service Address: 189 Lamplight
Subdivision/ County: Cypress Cove / Canal City, State, Zip: Spring Branch, TX 78070
Permit # _____ Model # _____ Serial # _____

Phone: 210-304-0039
 Initial Two Year Service Agreement & Two Year Limited Warranty
 One Year Service Agreement

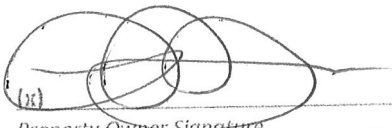
RENEWAL _____ NAME TRANSFER _____ ANALYSIS _____
Legal Description: _____

- The Effective date of this initial maintenance contract shall be the date the License to Operate is issued.
For \$ 1770 this contract will be in effect FROM 7/17/19 - 24/19 and will provide the following:
1. An inspection/service call every (4) four months which will include: inspection, adjustments and servicing of the mechanical & electrical components as necessary to insure proper function of the system.
 2. An effluent quality inspection consisting of a visual check for color, turbidity, scum, overflow an odor.
 3. THE PROPERTY OWNER IS RESPONSIBLE FOR PURCHASING AND KEEPING CHLORINE IN THE CHLORINATOR (IF APPLICABLE). IF THE CHLORINE TEST REVELS "NO CHLORINE" IN THE SYSTEM, THE PROPERTY OWNER MAY INCURE AN ADDITIONAL COST.
 4. If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
 5. The response time to a complaint by the property owner regarding operation of the system, shall be within 48 hours from the time of notification. One service call a year, if needed, will be provided with no cost to property owner.
 6. ANY PARTS, WARRANTY OR NON-WARRANTY, FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR REMAIN THE PROPERTY OF BAKER SEPTIC SERVICE, LLC AND COULD RESULT IN REPOSSESSION OF PARTS BY BAKER SEPTIC SERVICE, LLC.
 7. THE SIGING OF THIS SERVICE AGREEMENT QUTHORIZES BAKER SEPTIC SERVICE, LLC TO ENTER THE PROPETY TO EXECUTE ALL TERMS OF THIS CONTRACT.


BAKER SEPTIC SERVICE, LLC, WILL WARRANTY INSTALLAION of the septic system according to state and county regulations and the designs approved by the county. HOMEOWNER WILL BE RESPONSIBE FOR SERVICE CALL, LABOR, AND SHIPPING COSTS ON ANY "WARRANTED PARTS" EXCHANGED DURING WARRANTY. All other component will be according to manufacturer's warranties. IMPORTANT: As Baker Septic Service, LLC cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installers instructions for suggestions on septic operation. This service agreement does not cover the cost of service call, labor or materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvent, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional coast. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost. This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:

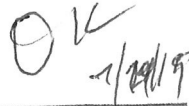
Violations of the warranty also include: Disconnecting the alarm, restricting ventilation to the aerator, over loading the system above its rated capacity; or flooding by external means. Rodent, insect or Fire Ant damage or any other form of unusual abuse is a violation.

A renewal service contract should be activated (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

(x) 
Property Owner Signature

Serviced by: Baker Septic Service, LLC
Maintenance Provider: M. P. ...
Print Name (X) THE SOURCE REAL ESTATE Date: 7/24/19

(x) 
Date: 7-3-19 Authorized Service Representative


OK
7/24/19

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

Date Soil Survey Performed: July 01, 2019

Site Location: CYPRESS COVE, SECTION 5, LOT 102

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.

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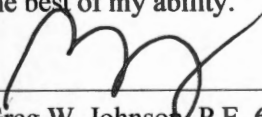
JUL 17 2019

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

COUNTY ENGINEER

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

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



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

07/01/19

 Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date: July 02, 2019

Applicant Information:

Name: The SOURCE REAL ESTATE SERVICES, LLC.
 Address: 3303 NAVASOTA CIRCLE
 City: SAN ANTONIO State: TEXAS
 Zip Code: 78259 Phone: (210) 304-0039

Site Evaluator Information:

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

Property Location:

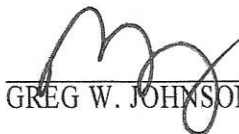
Lot 102 Unit 5 Blk _____ Subd. CYPRESS COVE
 Street Address: 189 LAMPLIGHT
 City: SPRING BRANCH Zip Code: 78070
 Additional Info.: _____

Installer Information:

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

Topography: Slope within proposed disposal area: 8 %
 Presence of 100 yr. Flood Zone: YES ___ NO X
 Existing or proposed water well in nearby area. YES ___ NO X
 Presence of adjacent ponds, streams, water impoundments YES ___ NO X
 Presence of upper water shed YES ___ NO X
 Organized sewage service available to lot YES ___ NO X

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


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

07/02/19
 DATE



FIRM #2585

**AEROBIC TREATMENT
DRIP TUBING SYSTEM**

DESIGNED FOR:

THE SOURCE REAL ESTATE SERVICES, LLC
3303 NAVASOTA CIRCLE
SAN ANTONIO, TX 78259

SITE DESCRIPTION:

Located in Cypress Cove, Section 5, Lot 102, on 189 Lamplight, the proposed system will serve a three bedroom residence (1506 sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a Pro-Flo Model 5060 600gpd aerobic plant containing a 397-gallon pretreatment tank, an aerobic treatment plant, and a 768-gallon pump chamber containing a 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 2000 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with **0.61 gph** emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the spin filter are flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with ~8" of Type II or Type III soil, then the drip tubing will be laid and capped with ~6" of Type II or Type III soil (**NOT SAND**). The field area will be sodded with grass prior to system startup. **Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

DESIGN SPECIFICATIONS:

Daily waste flow: 240 GPD Table III

Pretreatment tank size: 376 Gal

Plant Size: Pro-Flo Model 5060 600gpd (TCEQ Approved)

Pump tank size: 778 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.)

Total linear feet drip tubing: 1000' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833 gpm

Pump: 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent. MINIMUM

SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

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

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

$$\text{MSV} = 1.5 \text{ gpm PER LINE} * 3 \text{ LINES} = 4.5 \text{ GPM MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

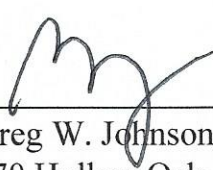
$$\text{MSV} = 2(3.14159((1.049/12)^2)/4) * 7.48 * 60$$

$$\text{MSV} = 5.4 \text{ GPM}$$

PIPE AND FITTINGS:

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

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

 09/04/19

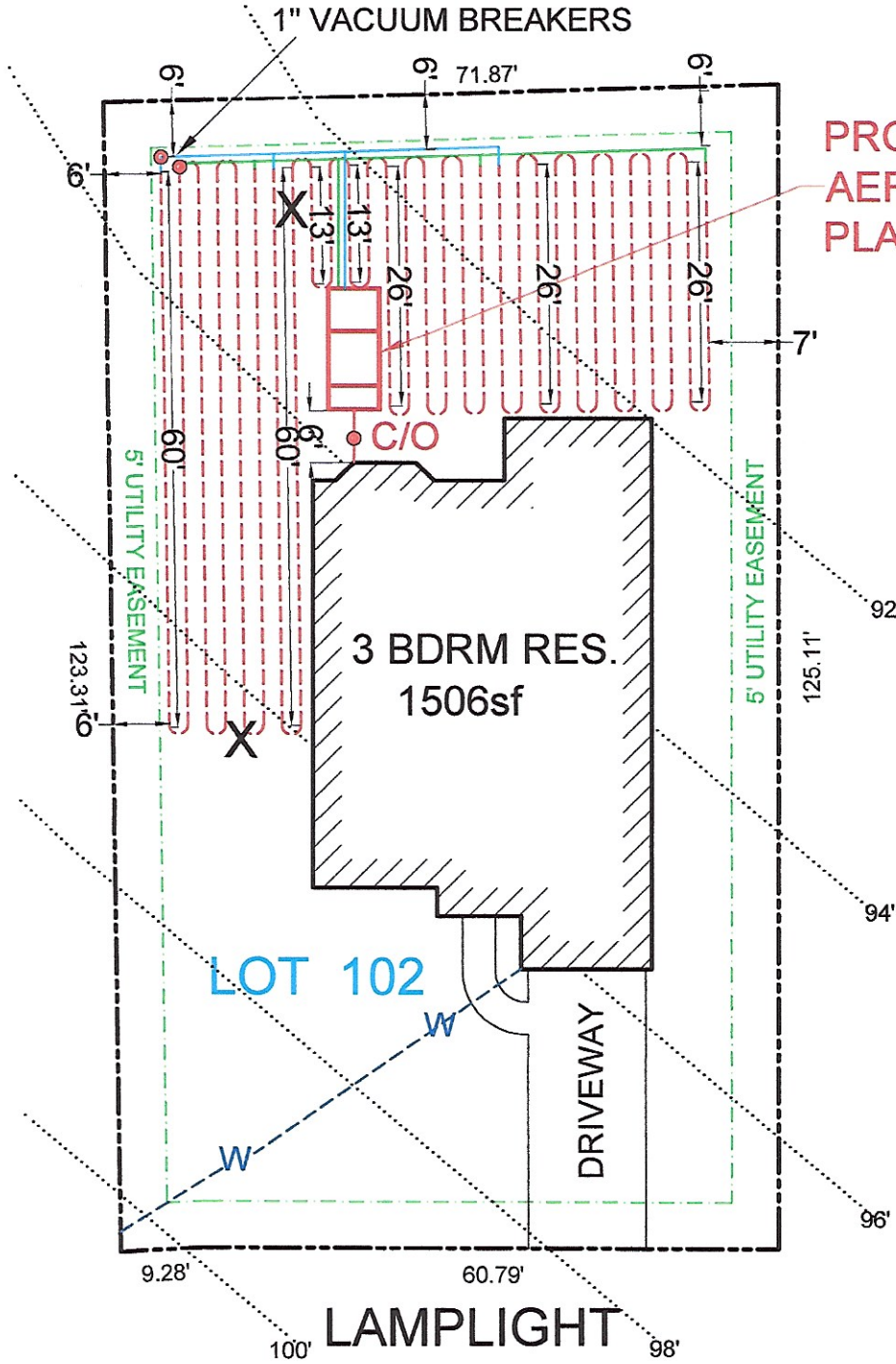
 Greg W. Johnson, P.E. No. 67587 / F-2585
 170 Hollow Oak
 New Braunfels, Texas 78132
 830/905-2778



#109415

REVISED

8:43 am, Jan 16, 2020



**PRO FLO 5060 HCSP
AEROBIC TREATMENT
PLANT**

INSTALL 2000sf OF FIELD
USING 1000' OF DRIP
TUBING. THERE SHALL BE
NO PARKING, DRIVING OR
STORAGE ON THE SEPTIC
FIELD AT ANY TIME FOR
ANY REASON.

*USE TWO WAY
CLEANOUT
**USE SCH-40 OR SDR-26
TO TANK

X= TEST HOLE



OWNER: The SOURCE REAL ESTATE SERVICES, LLC.		DRAWN BY: EJS III/gwj	
STREET ADDRESS: 189 LAMPLIGHT			
LEGAL DESC: CYPRESS COVE	UNIT/SECTION/PHASE: 5	BLOCK:	LOT: 102
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=20'	DATE: 7/2/2019	REVISED: 1/9/2019

TANK NOTES:

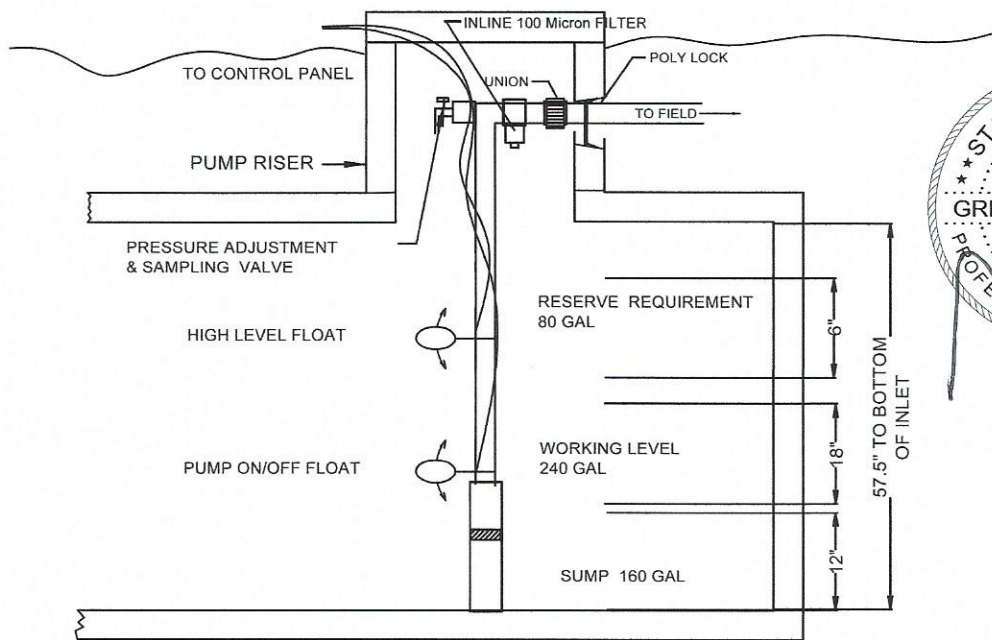
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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



F2585
09/04/19

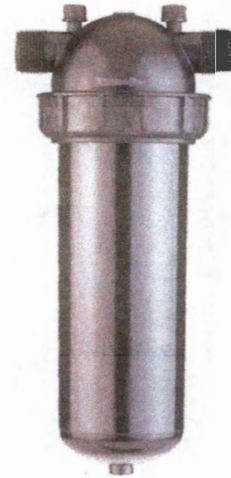
**TYPICAL PUMP TANK CONFIGURATION
PRO-FLO 768 GAL PUMP TANK**

Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

Features

- ♦ A "T" shaped filter with two 1" male threads.
- ♦ A "T" volume filter for in-line installation on 1" pipelines.
- ♦ The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- ♦ Manufactured entirely from fiber reinforced plastic.
- ♦ A cylindrical column of grooved discs constitutes the filter element.
- ♦ Spring keeps the discs compressed.
- ♦ Screw-on filter cover.
- ♦ Filter discs are available in various filtration grades.



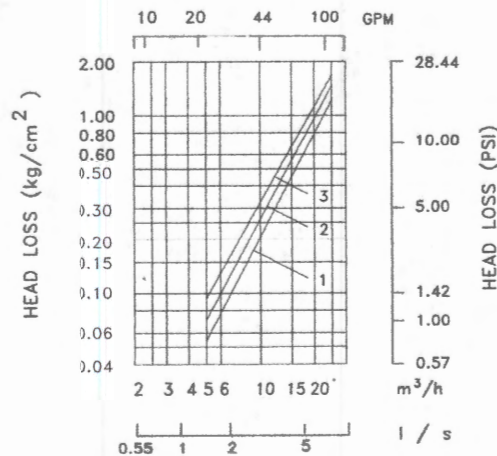
Technical Data

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

Filtration Grades

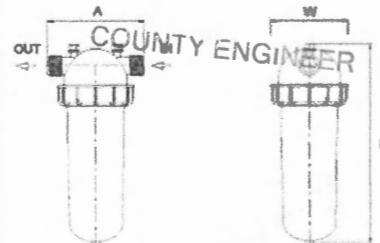
- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)

Head Loss Chart



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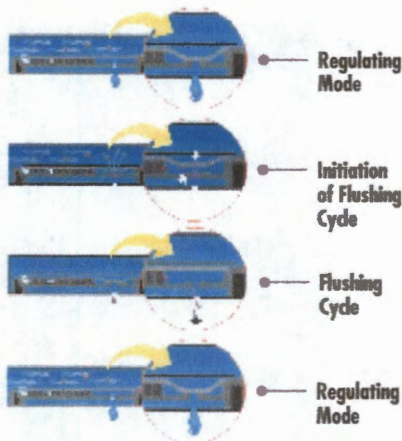
JUL 17 2019





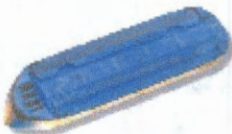
Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



BioLine's Self-Cleaning, Pressure Compensating Dripper is a fully self-contained unit molded to the interior wall of the dripper tubing.

As shown at left, BioLine is continuously self-cleaning during operation, not just at the beginning and end of a cycle. The result is dependable, dog free operation, year after year.



Product Advantages

The Proven Performer

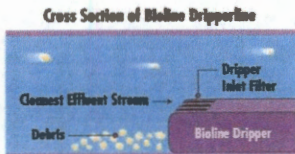
- Tens of millions of feet used in wastewater today.
- BioLine is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

Quality Manufacturing with Specifications Designed to Meet Your Needs

- Pressure compensating drippers assure the highest application uniformity - even on sloped or rolling terrain.
- Excellent uniformity with runs of 400 feet or more - reducing installation costs.
- Highest quality-control standards in the industry: Cv of 0.25 (coefficient of manufacturer's variation).
- A selection of flows and spacings to satisfy the designer's demand for almost any application rate.

Long-Term Reliability

- Protection against plugging:
 - Dripper inlet raised 0.27" above wall of tubing to prevent sediment from entering dripper.
 - Drippers impregnated with Vinyzene to prevent buildup of microbial slime.
 - Unique self-flushing mechanism passes small particles before they can build up.



Root Safe

- A physical barrier on each BioLine dripper helps prevent root intrusion.
- Protection never wears out - never depletes - releases nothing to the environment.
- Working reliably for up to 15 years in subsurface wastewater installations.
- Additional security of chemical root inhibition with Techfilter - supplies Trifluralin to the entire system, effectively inhibiting root growth to the dripper outlets.



Applications

- For domestic strength wastewater disposal.
- Installed following a treatment process.
- Can be successfully used on straight septic effluent with proper design, filtration and operation.
- Suitable for reuse applications using municipally treated effluent designated for irrigation water.

Specifications

Wall thickness (mil): 45*

Nominal flow rates (GPH): .4, .6, .9*

Common spacings: 12", 18", 24"*

Recommended filtration: 120 mesh

Inside diameter: .570*

Color: Purple tubing indicates non-potable source

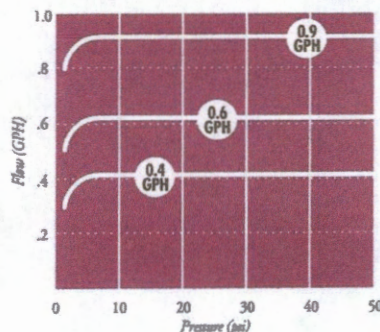
*Additional flows, spacings, and pipe sizes available by request. Please contact Netafim USA Customer Service for details.

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JUL 17 2019

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BIOLINE Flow Rate vs. Pressure



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

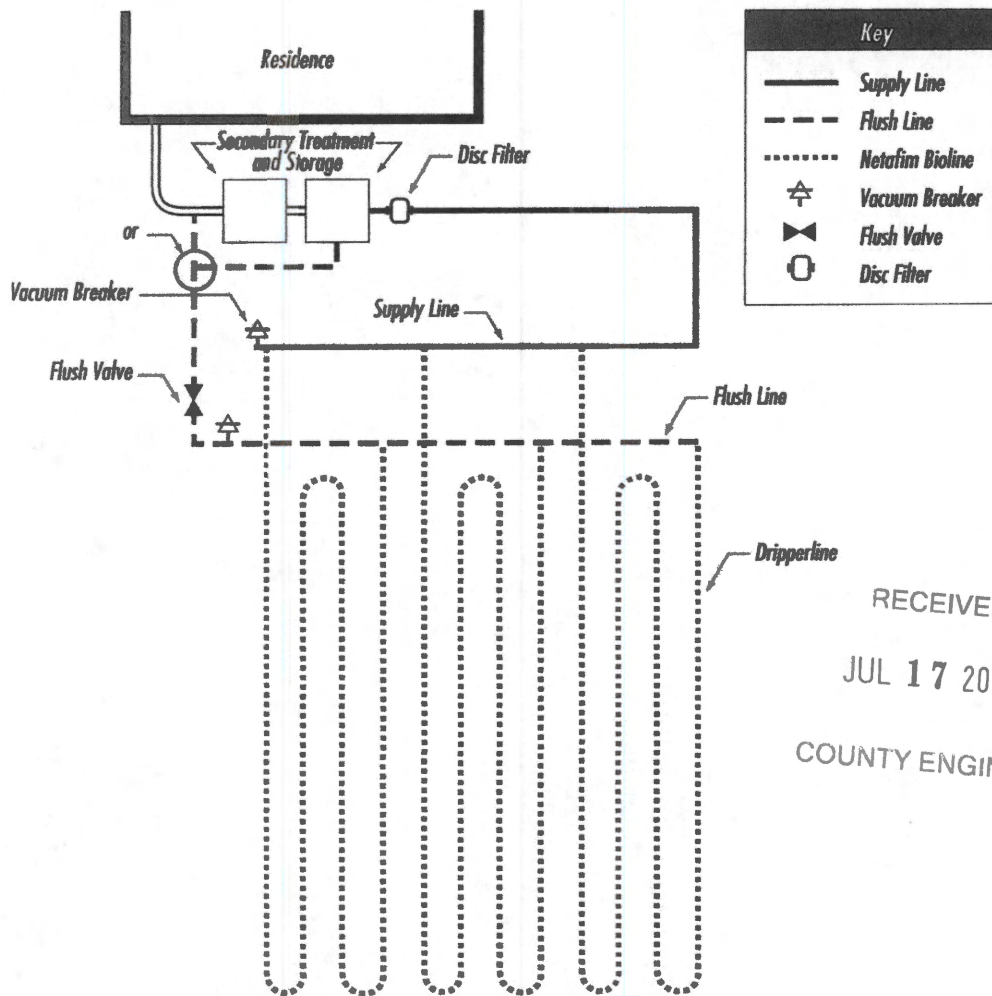
NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

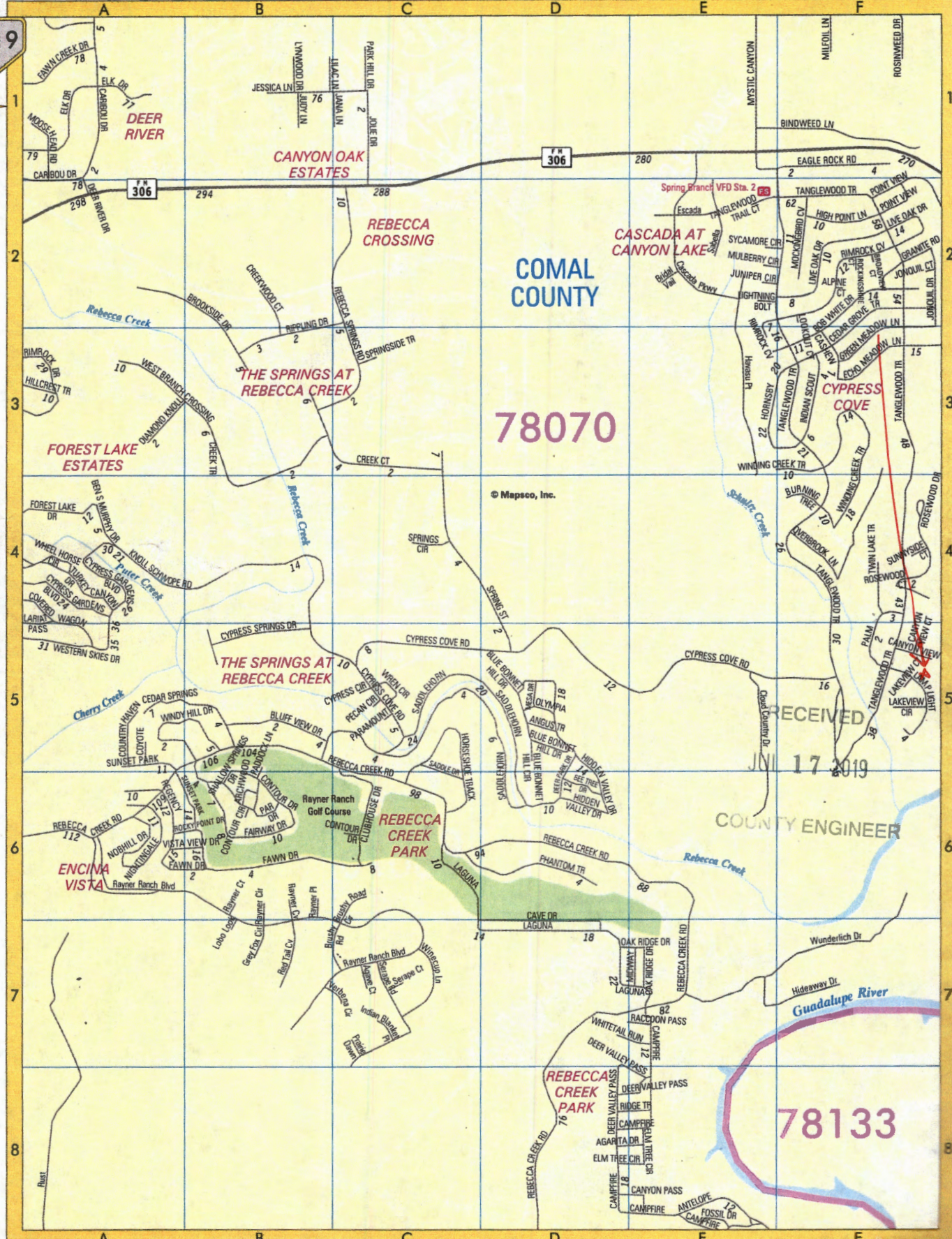
Rectangular field with supply and flush manifold on same side and in same trench;

- Locate supply and flush manifold in same trench
- Dripperlines are looped at the end opposite the supply and flush manifolds
- The longest Bioline length should not exceed 400 ft. Drip fields 200 ft. in length might loop the Bioline once; drip dispersal fields under 100 ft. might be looped twice, as illustrated



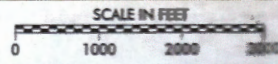
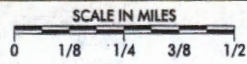
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JUL 17 2019
COUNTY ENGINEER

319



COMAL COUNTY
78070

RECEIVED
JUN 17 2019
COUNTY ENGINEER



REVISED

9:00 am, Dec 18, 2019

INSTALL 2000sf OF FIELD USING 1000' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

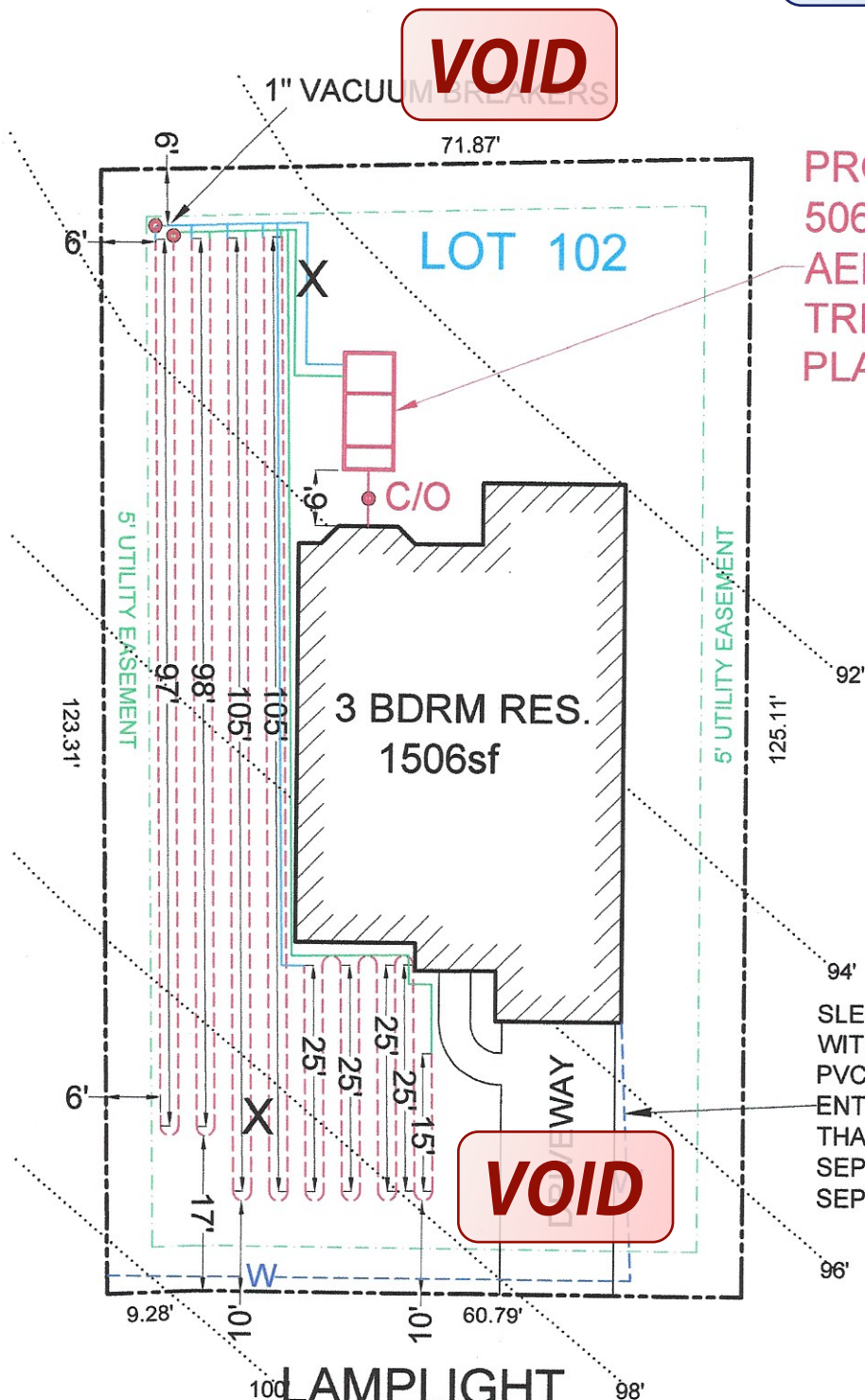
*USE TWO WAY CLEANOUT
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

VOID

PRO FLO 5060 HCSP AEROBIC TREATMENT PLANT

VOID



SLEEVE WATER LINE WITH 2"-SCH-40 PVC PIPE WHEN ENTERING CLOSER THAN 10' FROM SEPTIC SYSTEM OR SEPTIC FIELD.



OWNER: The SOURCE REAL ESTATE SERVICES, LLC.		DRAWN BY: EJS III	
STREET ADDRESS: 189 LAMPLIGHT			
LEGAL DESC: CYPRESS COVE	UNIT/SECTION/PHASE: 5	BLOCK:	LOT: 102
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=20'	DATE: 7/2/2019	2nd REVISION: 12/17/2019

#109415

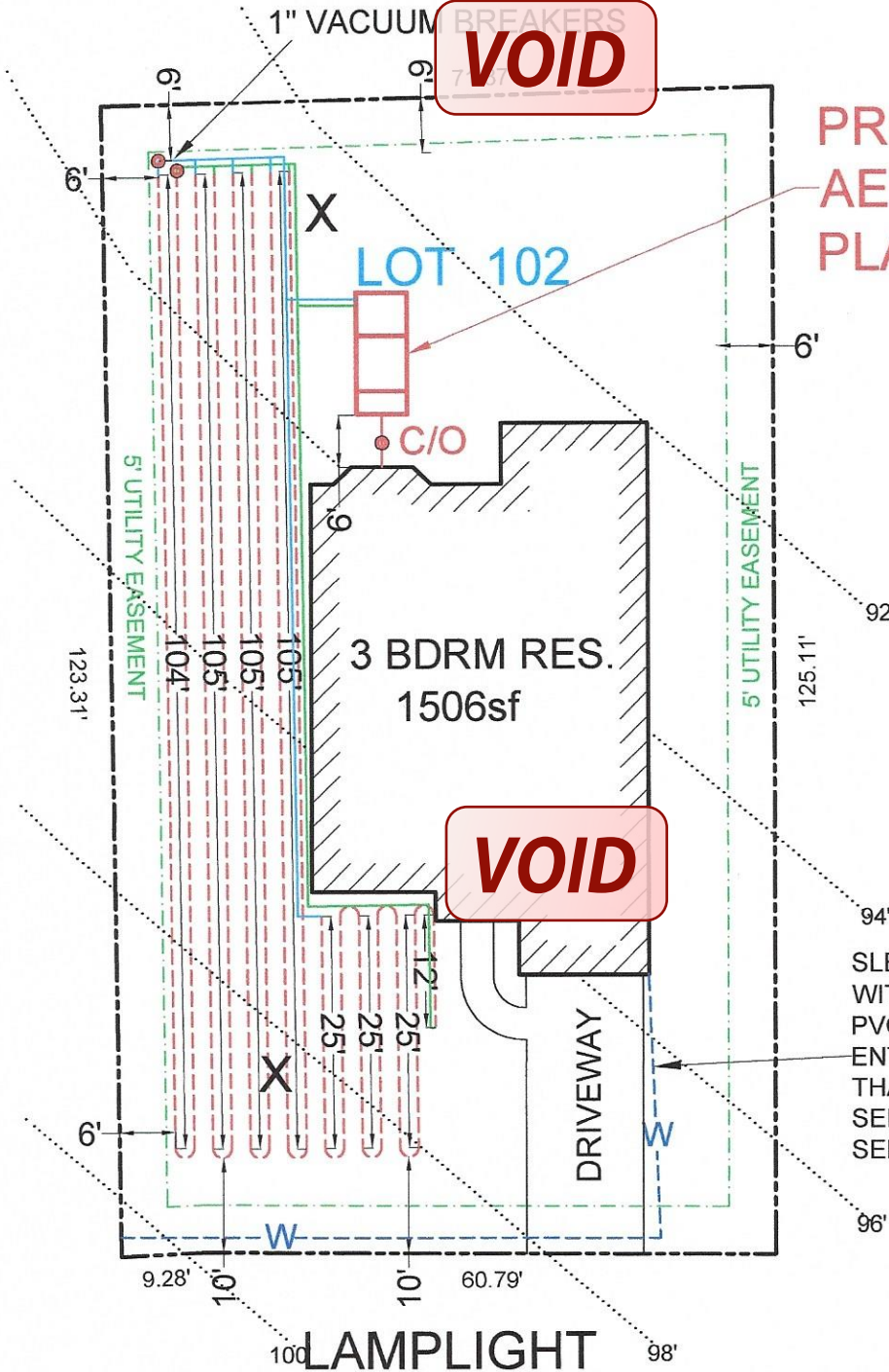
REVISED

7:43 am, Sep 04, 2019



VOID

PRO FLO 5060 HCSP AEROBIC TREATMENT PLANT



SLEEVE WATER LINE WITH 2"-SCH-40 PVC PIPE WHEN ENTERING CLOSER THAN 10' FROM SEPTIC SYSTEM OR SEPTIC FIELD.

INSTALL 2000sf OF FIELD USING 1000' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUT
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE



OWNER: The SOURCE REAL ESTATE SERVICES, LLC.		DRAWN BY: EJS III	
STREET ADDRESS: LAMPLIGHT			
LEGAL DESC: CYPRESS COVE	UNIT/SECTION/PHASE: 5	BLOCK:	LOT: 102
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=20'	DATE: 7/2/2019	REVISED: 9/4/2019

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

Date June 28, 2019

VOID

Permit # 109415

Owner Name THE SOURCE REAL ESTATE SERVICES LLC
Mailing Address 3303 NAVASOTA CIRCLE
City, State, Zip SAN ANTONIO TEXAS 78259
Phone# 210-304-0039
Email medlorenzo23@yahoo.com

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

All correspondence should be sent to: [] Owner [X] Agent [] Both

Method: [] Mail [X] Email

Subdivision Name CYPRESS COVE Unit/Phase/Section 5 Lot 102 Block

Acreage/Legal

Street Name/Address LAMPLIGHT City SPRING BRANCH Zip 78070

Type of Development:

[X] Single Family Residential

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

Number of Bedrooms 3

Indicate Sq Ft of Living Area 1506

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[] Non-Single Family Residential

VOID

(Planning materials must show adequate land area for [] 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: \$ 185,000 (Structure Only)

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

[] Yes [X] No (if yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water [X] Public [] Private Well

Are Water Saving Devices Being Utilized Within the Residence? [X] Yes [] No

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.
- 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 also understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Owner

Date 2/15/19

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

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWER SYSTEM AND LICENSE TO OPERATE

VOID

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

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) SOLAR AIR SA600LP Absorption/Application Area (Sq Ft) 2000

Gallons Per Day (As Per TCEQ Table III) 240

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? [] Yes [X] No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) JUL 17 2019

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Is there an existing TCEQ approved WPAP for the property? [] Yes [X] No

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

COUNTY ENGINEER

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.)

VOID

Is the property located over the Edwards Contributing Zone? [X] Yes [] No

Is there an existing TCEQ approval CZP for the property? [] Yes [X] No

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

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? [] Yes [X] No

(if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? [] Yes [X] No

If yes, indicate the city: _____



FIRM #2585

By signing this application, I certify that:

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

Signature of Designer (Handwritten Signature)

Date July 2, 201

OSSE SOIL EVALUATION REPORT INFORMATION

Date: July 02, 2019



Applicant Information:

Name: The SOURCE REAL ESTATE SERVICES, LLC.
Address: 3303 NAVASOTA CIRCLE
City: SAN ANTONIO State: TEXAS
Zip Code: 78259 Phone: (210) 304-0039

Site Evaluator Information:

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

Property Location:

Lot 102 Unit 5 Blk ___ Subd. CYPRESS COVE
Street Address: LAMPLIGHT
City: SPRING BRANCH Zip Code: 78070
Additional Info.: _____

Installer Information:

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

Topography: Slope within proposed disposal area: 8 %
Presence of 100 yr. Flood Zone: YES ___ NO X
Existing or proposed water well in nearby area. YES ___ NO X
Presence of adjacent ponds, streams, water impoundments YES ___ NO X
Presence of upper water shed YES ___ NO X
Organized sewage service available to lot YES ___ NO X

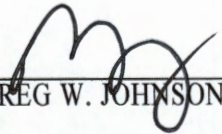
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JUL 17 2019

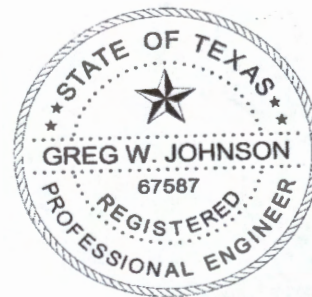
COUNTY ENGINEER



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


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

07/02/19
DATE



FIRM #2585

VOID

**AEROBIC TREATMENT
DRIP TUBING SYSTEM
DESIGNED FOR:**

**THE SOURCE REAL SERVICE, LLC
3303 NAVASOTA CIRCLE
SAN ANTONIO, TX 78259**

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COUNTY ENGINEER

SITE DESCRIPTION:

Located in Cypress Cove, Section 5, Lot 102, on Lamplight, the proposed system will serve a three bedroom residence (1506 sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a Solar Air SA600LP 600gpd aerobic plant containing a 376-gallon pretreatment tank, an aerobic treatment plant, and a 778-gallon pump chamber containing a 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron (100 micron) then through a 1" SCH-40 manifold to a 2000 sf. drip tubing field, with 1/2" drip lines set approximately two feet apart with **0.61 gph** emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the spin filter are flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with ~8" of Type II or Type III soil, then the drip tubing will be laid and capped with ~6" of Type II or Type III soil (**NOT SAND**). The field area will be sodded with grass prior to system startup. **Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

DESIGN SPECIFICATIONS:

Daily waste flow: 240 GPD Table III

Pretreatment tank size: 376 Gal

Plant Size: Solar Air SA600LP 600gpd (TCEQ Approved)

VOID

Pump tank size: 778 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.)

Total linear feet drip tubing: 1000' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833gpm

Pump: 0.5 HP FPS E-Series 20FE05P4-2W115 submersible pump or equivalent. MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

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

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

$$MSV = 1.5 \text{ gpm PER LINE} * 3 \text{ LINES} = 4.5 \text{ GPM MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

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

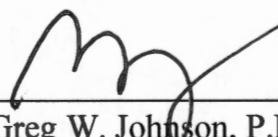
$$MSV = 5.4 \text{ GPM}$$

PIPE AND FITTINGS:

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

VOID

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

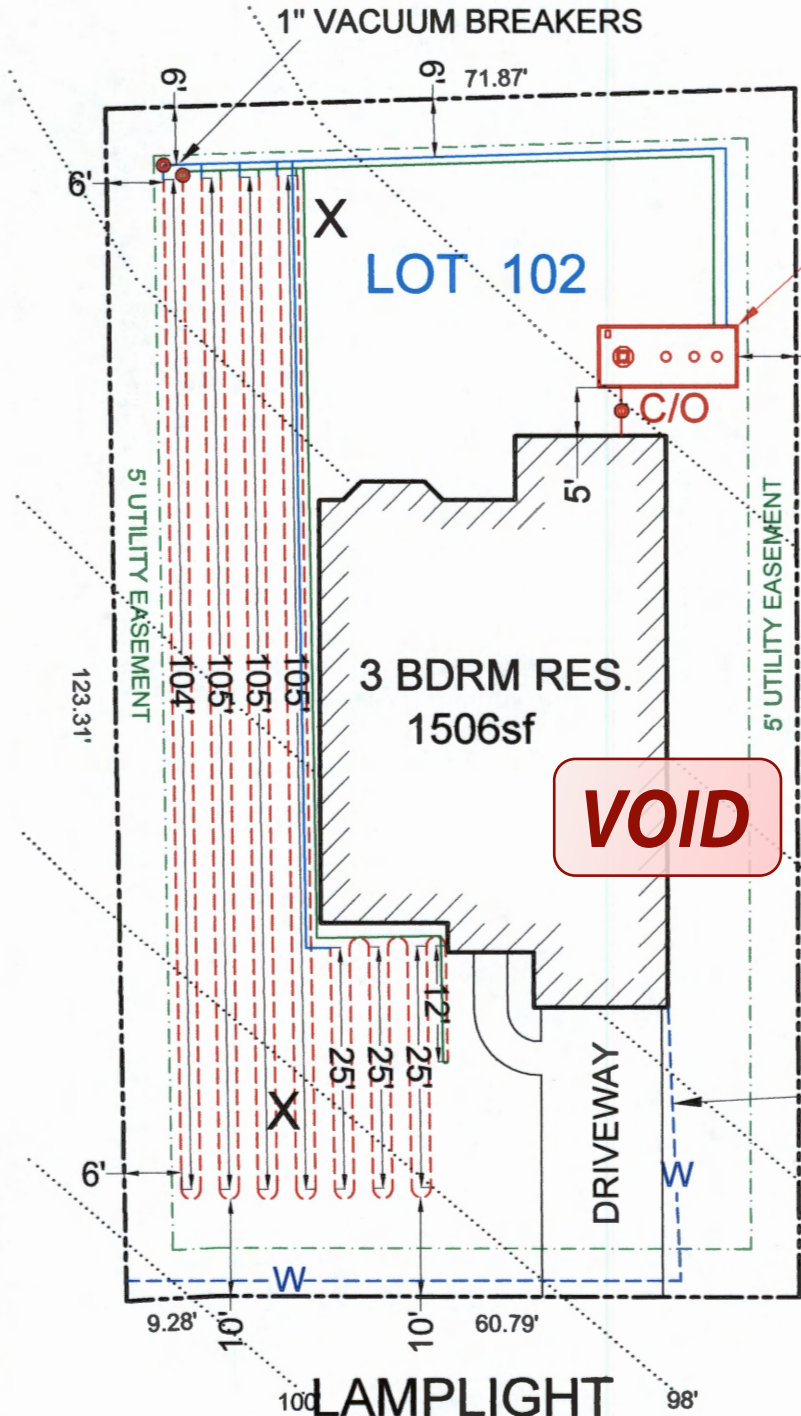
 07/02/19

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



RECEIVED
JUL 17 2019
COUNTY ENGINEER

VOID



**SOLAR AIR
SA-600 - LP 778
AEROBIC
TREATMENT
PLANT**

RECEIVED

JUL 17 2019

COUNTY ENGINEER

VOID

SLEEVE WATER LINE WITH 2"-SCH-40 PVC PIPE WHEN ENTERING CLOSER THAN 10' FROM SEPTIC SYSTEM OR SEPTIC FIELD.

INSTALL 2000sf OF FIELD USING 1000' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUT
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE



OWNER: The SOURCE REAL ESTATE SERVICES, LLC.		DRAWN BY: EJS III	
STREET ADDRESS: LAMPLIGHT			
LEGAL DESC: CYPRESS COVE	UNIT/SECTION/PHASE: 5	BLOCK:	LOT: 102
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=20'	DATE: 7/2/2019	REVISED:

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.

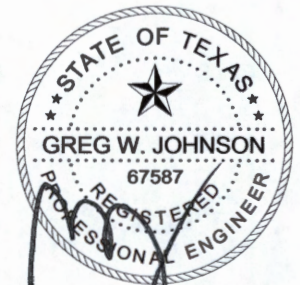
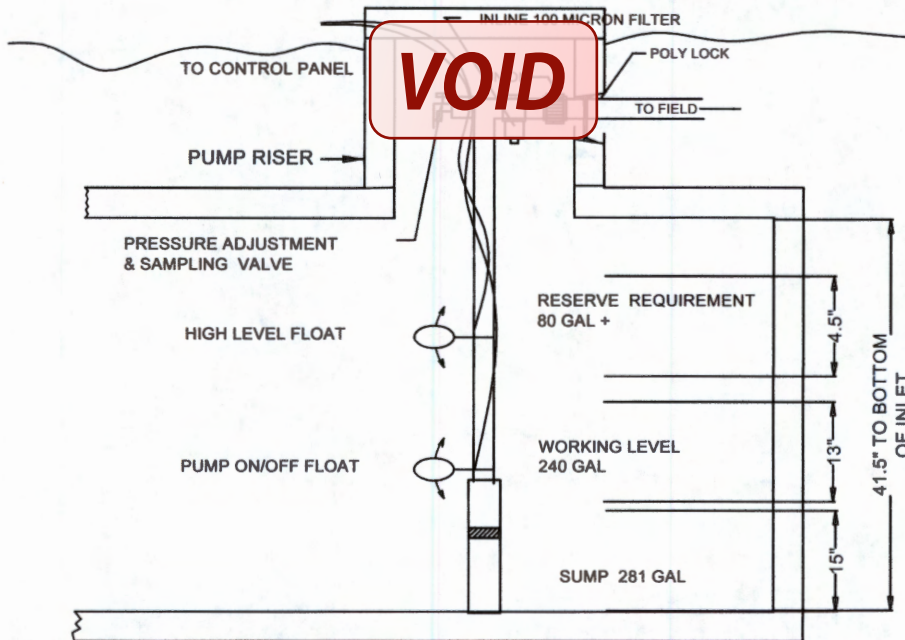
A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

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

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JUL 17 2019

COUNTY ENGINEER



F#2585

01/2/19

**TYPICAL PUMP TANK CONFIGURATION
SOLAR-AIR SA-600 LP 778 GAL PUMP TANK**

Ritzen, Brenda

From: Ritzen, Brenda
Sent: Wednesday, July 24, 2019 9:13 AM
To: 'Greg Johnson'
Subject: Permit 109415

Re: The Source Real Estate Services LLC
Cypress Cove Section 5 Lot 102
Application for Permit for Authorization to Construct an On-Site Sewage Facility

Greg,

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



1. The property owner must sign the 2 year initial service agreement.
2. Revise as needed and resubmit.

Thank you,

Brenda Ritzen, OS0007722
Environmental Health Coordinator
Comal County Engineers Office
195 David Jonas Drive
New Braunfels, Texas 78132
830-608-2090
www.cceo.org

Baker Septic Service, LLC
15375 Cranberry Mill Rd., Canyon Lake, TX 78133
99-2971

VOID

Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: The Source Real Estate Service Address: 189 Lamplight
Subdivision/ County: Cypress Cove / Canal City, State, Zip: Spring Branch, TX 78070
Permit # _____ Model # _____ Serial # _____

Phone: 210-304-0039
 Initial Two Year Service Agreement
& Two Year Limited Warranty

One Year Service Agreement

RENEWAL _____ NAME TRANSFER _____ ANALYSIS _____

Legal Description:

The Effective date of this initial maintenance contract shall be the date the License to Operate is issued.

For \$ 1200 this contract will be in effect FROM 7/1/19 - 2/1/20 and will provide the following:

1. An inspection/service call every (4) four months which will include: inspection, adjustments and servicing of the mechanical & electrical components as necessary to insure proper function of the system.
2. An effluent quality inspection consisting of a visual check for color, turbidity, scum, overflow an odor.
3. **THE PROPERTY OWNER IS RESPONSIBLE FOR PURCHASING AND KEEPING CHLORINE IN THE CHLORINATOR (IF APPLICABLE). IF THE CHLORINE TEST REVELS "NO CHLORINE" IN THE SYSTEM, THE PROPERTY OWNER MAY INCURE AN ADDITIONAL COST.**
4. If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
5. The response time to a complaint by the property owner regarding operation of the system, shall be within **48 hours**, from the time of notification. **One service call a year, if needed, will be provided with no cost to property owner.**
6. **ANY PARTS, WARRANTY OR NON-WARRANTY, FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR REMAIN THE PROPERTY OF BAKER SEPTIC SERVICE, LLC AND COULD RESULT IN REPOSSESSION OF PARTS BY BAKER SEPTIC SERVICE, LLC.**
7. **THE SIGING OF THIS SERVICE AGREEMENT QUTHORIZES BAKER SEPTIC SERVICE, LLC TO ENTER THE PROPEY TO EXECUTE ALL TERMS OF THIS CONTRACT**

BAKER SEPTIC SERVICE, LLC, WILL WARRANTY INSTALLED SEPTIC SYSTEMS according to state and county regulations and the designs approved by the county. HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALL, LABOR, AND SHIPPING COSTS ON ANY "WARRANTED PARTS" EXCHANGED DURING WARRANTY. All other component will be according to manufacturer's warranties.

VOID

IMPORTANT: As Baker Septic Service, LLC cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installers instructions for suggestions on septic operation. This service agreement does not cover the cost of service call, labor or materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvent, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional coast. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:

Violations of the warranty also include: Disconnecting the alarm, restricting ventilation to the aerator, over loading the system above its rated capacity; or flooding by external means. Rodent, insect or Fire Ant damage or any other form of unusual abuse is a violation.

A renewal service contract should be activated (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

Serviced by: Baker Septic Service, LLC
Maintenance Provider MP0002099

_____ Print Name (X) _____ Date: _____

Property Owner Signature

William [Signature] Date: 7-3-19 Authorized Service Representative

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: October 3, 2018

Grantor: BARBARA KINKADE and JAMES LAWRENCE SMITH

Grantor's Mailing Address: P.O. Box 2851, Canyon Lake, TX 78133

Grantee: **THE SOURCE REAL ESTATE SERVICES, LLC**, a Texas limited liability company

Grantee's Mailing Address: 3303 Navasota Circle, San Antonio, TX 78259

Consideration: Cash and other valuable consideration.

Property (including any improvements):

Lot 102, CYPRESS COVE SECTION 5, situated in the City of Spring Branch, Comal County, Texas, according to the map or plat thereof recorded in Volume 1, Page(s) 77-78, Map and Plat Records of Comal County, Texas;

Reservations from Conveyance: NONE.

Exceptions to Conveyance and Warranty: Any and all restrictions, covenants, conditions, reservations, mineral leases, interests, agreements and easements, shown of record in the hereinabove mentioned County and State and to all zoning laws, regulations and ordinances of municipal and/or governmental authorities, if any, but only to the extent that they are still in effect relating to the hereinabove described property, and further subject to all stand by fees, taxes and assessments by any taxing authority for the current and subsequent years, and subsequent taxes and assessments for prior years due to changes in land usage or ownership and all matters reflected on the hereinabove mentioned plat.

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

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

Barbara Kinkade

BARBARA KINKADE

James Lawrence Smith

JAMES LAWRENCE SMITH

RECEIVED

17 2019

COUNTY ENGINEER

ACKNOWLEDGMENT

STATE OF TEXAS

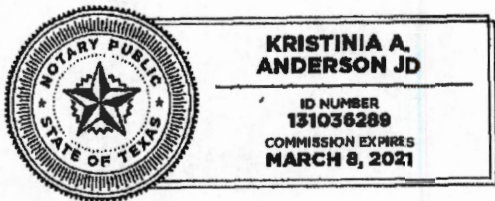
§
§
§

COUNTY OF Dallas

This instrument was acknowledged before me on the 3 day of October, 2018, by BARBARA KINKADE and JAMES LAWRENCE SMITH.

Kristinia A. Anderson

Notary Public in and for the State of Texas



Notarized online using audio-video communication

RECEIVED

JUL 17 2019

COUNTY ENGINEER

AFTER RECORDING RETURN TO:

THE SOURCE REAL ESTATE SERVICES, LLC
3303 Navasota Circle
San Antonio, TX 78259

PREPARED IN THE LAW OFFICES OF:

THE HOUGHAM LAW FIRM
5152 Fredericksburg Road, Ste. 280A
San Antonio, Texas 78229
Telephone No. (210) 375-7570

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
10/09/2018 09:12:55 AM
LAURA 2 Pages(s)
201806039321



Bobbie Koepf

Baker Septic Service, LLC
 15375 Cranes Mill Rd., Canyon Lake, TX 78133
 830-899-2971

Testing and Reporting Record

This Testing and Reporting Record shall be completed, signed, and dated at time of inspection.

Inspection Due Date: 9-29-20 Installed: 1-27-20 Service expires: 1-27-22

Billing Address: SAME

Physical Address:
189 LAMP LIGHT
SPRING BRANCH, TX 78070

Telephone:
 Alt. Phone:

Lot: 102 Permit # 109415
 County: COMAL
 SN:

Subdivision: CYPRESS COVE

NOTES:

TYPE OF SYSTEM: PRO FLO DRIP SYSTEM

Inspected Item: Operational Inoperative

Inspected Item:	<u>Operational</u>	Inoperative
Aerators SCFM/ Compressors PSI (Record Pressure Reading)	✓	1.0
Filters	✓	
Irrigation Pumps	✓	
Disinfection Device		
Chlorine Supply		
Electrical Circuits	✓	
Distribution System	✓	
Sprayfield Vegetation	✓	
Back Flush Drip Field, if applicable	✓	
Other as Noted		
Access Lids are Secured	<u>Yes</u>	No

Action taken, Repairs or Needed repairs to system (list all components replaced):
CHECKED FLOATS, BACK FLUSHED SYSTEM, CLEANED DISC + COMPRESSOR FILTER, CHECKED PSI ON COMPRESSOR, CHECKED ELRC.
SYSTEM OPERATIONAL

TESTS REQUIRED AND RESULTS:

	Required		Results Mg/lmpn/100mi or Trace	Test Method
	YES	NO		
BOD (Grab)	✓		<u>10% DRIP</u>	
TSS (Grab)		✓		
Cl (Grab)				
Fecal Coliform				

Copies of this report have been forwarded to the following: CUSTOMER & COUNTY

Maintenance Technician: DAN NICHOLS MT 0001435
 Date of Completion: 9-29-20 Start Job Time: 2:50 Stop Job Time: 3:25
 Maintenance Provider: William Baker MT 0002099

Baker Septic Service, LLC
15375 Cranes Mill Rd., Canyon Lake, TX 78133
830-899-2971

Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: VILLAREAL JORRGE Address: 189 LAMPLIGHT
Subdivision/ County: CYPRESS COVE/COMAL City, State, Zip: SPRING BRANCH TX
Permit # 109415 Model # _____ Serial # _____
Phone: 830-385-9224

() Initial Two Year Service Agreement () One Year Service Agreement
& Two Year Limited Warranty

RENEWAL _____ NAME TRANSFER ANALYSIS _____

Legal Description:

The Effective date of this initial maintenance contract shall be the date the License to Operate is issued.

For \$ _____ this contract will be in effect FROM / / - / / and will provide the following:

1. An inspection/service call every (4) four months which will include: inspection, adjustments and servicing of the mechanical & electrical components as necessary to insure proper function of the system.
2. An effluent quality inspection consisting of a visual check for color, turbidity, scum, overflow an odor.
3. **THE PROPERTY OWNER IS RESPONSIBLE FOR PURCHASING AND KEEPING CHLORINE IN THE CHLORINATOR (IF APPLICABLE). IF THE CHLORINE TEST REVELS "NO CHLORINE" IN THE SYSTEM, THE PROPERTY OWNER MAY INCURE AN ADDITIONAL COST.**
4. If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
5. The response time to a complaint by the property owner regarding operation of the system, shall be within 48 hours from the time of notification. **One service call a year, if needed, will be provided with no cost to property owner.**
6. **ANY PARTS, WARRANTY OR NON-WARRANTY, FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR REMAIN THE PROPERTY OF BAKER SEPTIC SERVICE, LLC AND COULD RESULT IN REPOSSESSION OF PARTS BY BAKER SEPTIC SERVICE, LLC.**
7. **THE SIGING OF THIS SERVICE AGREEMENT QUTHORIZES BAKER SEPTIC SERVICE, LLC TO ENTER THE PROPETY TO EXECUTE ALL TERMS OF THIS CONTRACT.**

BAKER SEPTIC SERVICE, LLC, WILL WARRANTY INSTALLAION of the septic system according to state and county regulations and the designs approved by the county. **HOMEOWNER WILL BE RESPONSIBE FOR SERVICE CALL, LABOR, AND SHIPPING COSTS ON ANY "WARRANTED PARTS" EXCHANGED DURING WARRANTY.** All other component will be according to manufacturer's warranties.

IMPORTANT: As Baker Septic Service, LLC cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installers instructions for suggestions on septic operation. This service agreement does not cover the cost of **service call, labor or materials** that are required or **parts out of warranty**, the failure to maintain electrical power to the system, **sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning**; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvent, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional coast. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:

Violations of the warranty also include: Disconnecting the alarm, restricting ventilation to the aerator, over loading the system above its rated capacity; or flooding by external means. Rodent, insect or Fire Ant damage or any other form of unusual abuse is a violation.

A renewal service contract should be activated (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

Serviced by: Baker Septic Service, LLC

Maintenance Provider Mason 2099

(x) Jorge Villareal
Property Owner Signature

Print Name (X) Jorge Villareal Date: 20201107

(k) [Signature] Date: 11-16-2020 Authorized Service Representative

Baker Septic Service, LLC
 15375 Cranes Mill Rd., Canyon Lake, TX 78133
 830-899-2971

Testing and Reporting Record

This Testing and Reporting Record shall be completed, signed, and dated at time of inspection.

Inspection Due Date 5.21.21 Installed: 1.27.20 Service expires: 1.27.22

Billing Address: SAME

Physical Address:
189 LAMPLIGHT
SPRING BRANCH, TX 78070

Telephone:
 Alt. Phone:

lot: 102

Permit # 109415
 County: COMAL
 SN:

Subdivision: CYPRESS COVE
 NOTES:

TYPE OF SYSTEM: PRO FLO DRIP SYSTEM

Inspected Item:

Operational

Inoperative

Aerators SCFM/ Compressors PSI (Record Pressure Reading)	<input checked="" type="checkbox"/>
Filters	<input checked="" type="checkbox"/>
Irrigation Pumps	<input checked="" type="checkbox"/>
Disinfection Device	<input checked="" type="checkbox"/>
Chlorine Supply	<input checked="" type="checkbox"/>
Electrical Circuits	<input checked="" type="checkbox"/>
Distribution System	<input checked="" type="checkbox"/>
Sprayfield Vegetation	<input checked="" type="checkbox"/>
Back Flush Drip Field, if applicable	<input checked="" type="checkbox"/>
Other as Noted	<input checked="" type="checkbox"/>

1.2 PSI

Action taken, Repairs or Needed repairs to system (list all components replaced):
CK FLOWS & ALARMS
CLEAN DISC FILTER
BACKFLUSH SYSTEM,
CK PSI ON COMPRESSOR & CLEAN FILTER

SYSTEM OPERATIONAL

Access lids are Secured

Yes

No

TESTS REQUIRED AND RESULTS:

	Required		Results Mg/1mpn/100mi or Trace	Test Method
	YES	NO		
ROD (Grab)				
TSS (Grab)	<input checked="" type="checkbox"/>		<u>1% DRIP</u>	<u>SLUDGE JUDGE</u>
Cl (Grab)		<input checked="" type="checkbox"/>		
Fecal Coliform				

Copies of this report have been forwarded to the following: CUSTOMER & COUNTY

Maintenance Technician: MARTIN PRISCARELLA MT 0002064

Date of Completion: 5.21.21 Start Job Time: 3:50 PM Stop Job Time: 4:35 PM

Maintenance Provider: William Baker MP 0002099

Baker Septic Service, LLC
 15375 Cranes Mill Rd., Canyon Lake, TX 78133
 830-899-2971

Testing and Reporting Record

This Testing and Reporting Record shall be completed, signed, and dated at time of inspection.

Inspection Due Date: 9.14.21 Installed: 1.27.20 Service expires: 1.27.22

Billing Address: SAME

Physical Address:
189 LAMPLIGHT
SPRING BRANCH, TX 78070

Telephone:
 Alt. Phone:

Lot:
102

Permit # 109415
 County: COMAL
 SN:

Subdivision: CYPRESS COVE
 NOTES:

TYPE OF SYSTEM: PRO FLO DRIP SYSTEM

Inspected Item: Operational Inoperative

Aerators SCFM/ Compressors PSI (Record Pressure Reading)	✓	1.6 PSI
Filters	✓	
Irrigation Pumps	✓	
Disinfection Device	—	
Chlorine Supply	—	
Electrical Circuits	✓	
Distribution System	✓	
Sprayfield Vegetation	✓	
Back Flush Drip Field, if applicable	✓	
Other as Noted	—	

Action taken, Repairs or Needed repairs to system (list all components replaced):
CK FLOATS & ALARMS,
CLEAN DISC FILTER & BACK
FLUSH SYSTEM
CLEAN PUMP SCREEN
CK PSI ON COMPRESSOR &
CLEAN FILTER
CK FLEC
SYSTEM OPERATIONAL

Access Lids are Secured Yes No

TESTS REQUIRED AND RESULTS:

	Required		Results Mg/1mpn/100mi or Trace	Test Method
	YES	NO		
BOD (Grab)				
TSS (Grab)	✓		5%	SLUDGE JUDGE
C1 (Grab)		✓	DRIP	
Fecal Coliform				

Copies of this report have been forwarded to the following: CUSTOMER & COUNTY

Maintenance Technician: MARTIN PASCARELLA MT 0002064

Date of Completion: 9.14.21 Start Job Time: 2:00 PM Stop Job Time: 2:50 PM

Maintenance Provider: William Baker MP0002099

Baker Service and Maintenance OSSF Systems PS LLC

15375 Cranes Mill Rd., Canyon Lake, TX 78133

830-899-2971

Testing and Reporting Record

This Testing and Reporting Record shall be completed, signed, and dated at time of inspection.

Inspection Due Date: 1-18-22 Installed: 1-27-20 Service expires: 1-27-22

Billing Address: SAME

Physical Address:

189 LAMPLIGHT
SPRING BRANCH TX 78070

Telephone:

Lot: 102

Permit # 109415

Alt. Phone:

County: COMAL

SN:

Subdivision: CYPRESS COVE

NOTES:

TYPE OF SYSTEM: PRO FLO DRIP SYSTEM

Inspected Item:

Operational Inoperative

Inspected Item	Operational	Inoperative
Aerators SCFM/ Compressors PSI (Record Pressure Reading)	✓	1.5
Filters	✓	
Irrigation Pumps	✓	
Disinfection Device	—	
Chlorine Supply	—	
Electrical Circuits	✓	
Distribution System	✓	
Sprayfield Vegetation	✓	
Back Flush Drip Field, if applicable	✓	
Other as Noted	—	

Action taken, Repairs or Needed repairs to system (list all components replaced):

CHECKED FLOATS, BACK FLUSHED SYSTEM, CLEANED DISC + COMPRESSOR FILTERS, CHECKED PSI ON COMPRESSOR, CHECKED ELEC.

SYSTEM OPERATIONAL

Access Lids are Secured

Yes

No

TESTS REQUIRED AND RESULTS:

	Required		Results	Test
	YES	NO	Mg/1mpn/100mi or Trace	Method
BOD (Grab)				
TSS (Grab)	✓		2%	SLUDGE JUDGE
C1 (Grab)		✓	DRIP	
Fecal Coliform				

Copies of this report have been forwarded to the following: CUSTOMER & COUNTY

Maintenance Technician: DAV NICHOLS MT 0001435

Date of Completion: 1-18-22 Start Job Time: 10:35 Stop Job Time: 11:10

Maintenance Provider: William Sutter MVD0002099

Aerobic Services
15188 FM 306
Canyon Lake, TX 78133



Canyon Lake: (830) 964-2365
Bastrop: (512) 303-6922
 info@aerobicservices.com
 bastrop@aerobicservices.com
MP349 / OS24597
www.aerobicservices.com

To: Teresa & Steven Shell
189 Lamplight
Spring Branch, TX 78070
 Agency: Comal County Environmental Org.
 County: Comal
 Permit No: 109415

Tech: Nick
 Phone: (512) 538-5475 Date: 2024-07-12
 Alt Ph: _____ Service _____
 Due: _____

Inspection Type: _____

Item	Operational	Inoperative	Not Present	
Aerator:	[X]	[]	[]	Air Pressure: Dual
Irrigation Pump:	[X]	[]	[]	
Air Compressor:	[X]	[]	[]	
Pump Screen:	[X]	[]	[]	
Chlorinator:	[X]	[]	[]	
Spray Field Vegetation:	[X]	[]	[]	
Filters:	[X]	[]	[]	
Sprinkler / Drip Backwash:	[X]	[]	[]	
Controls / Electric Circuits:	[X]	[]	[]	

Test Results and Observations: (As Required)

Chlorine Residual (ppm): Drip(0.00)
 Test Method: Dpd
 BOD: _____
 TSS: _____
 Tank Lids Secured: Yes [X] / NO []
 Pump Out Needed: Yes [] / NO [X]
 Repairs Made Yes [] / NO [X]

Mixed Liquor: all measurements in inches

Aeration: 48

Sludge Levels

Clarifier: 24

Pump: 2

Repairs and Comments:

This system is fully operational and functioning as designed by county engineer Greg Johnson, tank structural integrity is pristine and sludge levels are in line with a system that's been in use this long, no pump out necessary at this time, all components are working as installed air pump is giving good airflow to aeration chamber, effluent pump is operating as designed and pulling water to the drip field at the designed rate. No repairs to note of at this time cleaned the drip filter and backwashed the drip field also cleaned pump screen and air filter.

Inspector: _____

Date: 2024-07-12

Tom Hampton, VP
 MP349/OS24597