TARRANT REGIONAL WATER DISTRICT

Rt 1 Box 1660, Streetman, Texas 75859 903-389-3928

APPLICATION FOR ON-SITE SEWAGE FACILITY

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2	
1.	PROPERTY OWNER'S NAME: Sown Sames
	(LAST) (FIRST) (MIDDLE)
2.	PERMANENT MAILING ADDRESS: 1401 Danbuy Dr. Mansfield TX 76063 (STREET/PO BOX) (CITY/STATE) (ZIP)
3.	TELEPHONE NO. DURING DAY: (972) 988-0454
4.	SITE ADDRESS: 130 Manassass Sq. Streetman, TX (CITY/STATE) (ZIP)
5.	PROPERTY DESCRIPTION: LOT NO. 31 BLOCK SEC SIZE 53,597 SQ.FT.
	and/or legal description (attached) SUBDIVISION:
	OTHER THAN SUBDIVISION: AcreageSurvey
6.	SOURCE OF WATER:Private Well Public Water Supply
	TYPE OF DEVELOPMENT
7.	SINGLE FAMILY RESIDENCE: No. of Bedrooms Living Area (sq. ft.) 5060
8.	COMMERCIAL/INSTITUTIONAL (including multi-family residences) TYPE:
	NO. OF EMPLOYEES/OCCUPANTS/UNITS: Na DAYS OCCUPIED PER WEEK: Na
	ESTIMATED MAXIMUM DAILY WATER CONSUMPTION (gpd): 420 perday
9.	IS AN ORGANIZED SEWAGE COLLECTION WITHIN 300 FEET? Yes Yes No
10.	DESIGNER: PHILIP MANIAN LICENSE NO.: 2604
	PHONE NO.: 912 452 -8487
11.	INSTALLER: VIMMY KASH REGISTRATION NO.: 05 5 8
	PHONE NO.: 903-872-5520

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hereby given to the Tarrant Regional Water District to enter upon the above described private property for the purpose of lot evaluation and inspection of on-site sewerage facilities. I understand that the approval of this application constitutes authorization for construction of the onsite sewerage facility and that a permit to operate the facility will be granted following successful inspection of the installed system which indicates that the system was installed in compliance with TNRCC's On-Site Sewage Facility Rules (OSSF) and the District's Waste Control Order.

(SIGNATURE OF AUTHORIZED DISTRICT REPRESENTATIVE)

TARRANT REGIONAL WATER DISTRICT

140 FM 416, Streetman, Texas 75859 903-389-3928

AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY

Application Number

RC 01007

Property Owner

James W. Brown

Mailing Address

1401 Danbury Dr.

Mansfield, Tx. 76063

Property Location

Lot 37

The Wilderness

Freestone County, Texas

This serves to notify all persons that an on-site sewerage facility application, related technical data, and the appropriate fee have been received by the Tarrant Regional Water District (District) from the property owner. The application has been reviewed for technical and administrative consideration against the standards set forth by the District. Approval is hereby granted for the construction as shown on the submitted plans.

Any modifications to submitted plans require approval by the Tarrant Regional Water District prior to installation.

You or your installer must contact the District office at 903-389-3928 between 7:30 A.M. to 8:30 A.M. to arrange for the required facility inspection. Calls after 8:30 A.M. may result in inspection being delayed until the next working day. The authorization to construct is valid for one year from the date of issue of an application. If a final inspection has not been performed within one year of issue, a new application and fee will be required.

Comments: The following design is based upon the minimum standards set forth by the Texas Natural Resource Conservation Commission and is based on a maximum daily flow of 420 gallons, the use of water saving devices is required.

Authorized District Representative

Date

TARKANT REGIONAL WATER DISTRICT 140 FM 416, Sweeman, Texas, 75859 903-389-3928

NOTICE OF APPROVAL OF ON-SITE SEWAGE FACILITY

PERMIT # RC O100

ADDITIONAL INFORMATION:	ANY MODIFICATIONS T MAY REQUIRE A NEW P changes.	This serves to notify all perso design, construction, and inst Commission (TNRCC) and District On-Site Sewage Facil sewage facility.	Fa	Property Location	Property Owner Mailing Address M
ON:	ANY MODIFICATIONS TO THE SYSTEM STRUCTURE, OR ITS COMPONENTS, MAY REQUIRE A NEW PERMIT. The owner must notify this office of the aforementioned changes.	This serves to notify all persons that the on-site sewage facility owned by the above has satisfied design, construction, and installation requirements of the Texas Natural Resource Conservation Commission (TNRCC) and the District Waste Control Order. This Tarrant Regional Water District On-Site Sewage Facility Permit is issued for the operation of the above identified on-site sewage facility.	County, Texas	L 37 LE WILDER NESS	onskield, Tx. 76063

Date

Authorized District Representative

TARRANT REGIONAL WATER DISTRICT

Rt 1 Box 1660, Streetman, Texas 75859 903-389-3928

ON-SITE SEWAGE FACILITY PROGRAM

AEROBIC SYSTEM INSPECTION REPORT

PROPERTY OWNER: JAMES BROWN PERMIT NUMBER: RCO	1007
I. SEWER	YN
CLEANOUTS PROPERLY INSTALLED:	1
PROPER TYPE PIPE FROM STRUCTURE TO DISPOSAL SYSTEM: 411 5cl 40	_
SLOPE OF SEWER 1/4 TO 1/8 INCH PER FOOT:	
IL PRETREATMENT	YN
IS PRETREATMENT REQUIRED?	
TANK PROPERLY PLUMBED?	~
TANK SIZE REQUIRED: 500 GA/	** **
TANK TYPE: CONCRETE MANUFACTURER: JACKSON	** **
III. AEROBIC TREATMENT UNIT	YN
UNIT SIZE REQUIRED 500 GPD UNIT SIZE INSTALLED 500 GPD	** **
MANUFACTURER: CLEAR STREAM	** **
MODEL NUMBER: SOON, SERIAL NUMBER: 26764-05	** **
TYPE OF AERATOR CLEARS FREM SERIAL NUMBER: 30462	** **
HIGH WATER ALARM INSTALLED? (check type) LIGHT SOUND	
FILTER INSTALLED (if required)?	/
ALARM WIRING SEPARATE FROM PUMP?	1
CHLORINATOR PROPERLY INSTALLED?	1
CHLORINE TABLETS IN PLACE?	
IV. PUMP TANK	,
TANK SIZE REQUIRED: 500 TANK SIZE INSTALLED: 500	
TYPE: CONCRECE MANUFACTURER: JACKSON	W
TYPE AND SIZE OF PUMP: CLEAR SLAEAR 1/2 hp	
V. APPLICATION AREA (SUB-SURFACE ONLY) AREA REQUIRED: 3400 FT - AREA INSTALLED: 3200 F7	<u> </u>
AREA REQUIRED: 2400 FT AREA INSTALLED: 3200 FT	
LENGTH OF DRIP EMITTER LINE INSTALLED: 1/6/10	
LENGTH OF LOW PRESSURE DOSING LINE INSTALLED:	
SPACING OF LINE INSTALLED: 3"	
DEPTH OF LINE INSTALLED: 6"	
COMMENTS:	
INSPECTED BY: M. Amalel DATE: 2.9-0	20

TARRANT REGIONAL WATER DISTRICT Rt 1 Box 1660, Streetman, Texas 75859 903-389-3928

PROPERTY OWNER: JAMES BROWN PER	RMIT NUMBER: 1201007
On an inspection was conducted on designed to serve your property.	the on-site sewerage facility
System approval is <u>DENIED</u> until the following deficiency(s) reinspected:	is corrected and the system
REVISE DESTEN	
1) Jackson Pomp FANK 2) 3200 FT 2 Disposal AREA	1
a)	
Chapter 366, Subchapter D, Section 366.055 (b) of the Texas Hea "An on-site sewage disposal system may not be used unless it is is department or the authorized agent". Furthermore Section 3 department or authorized agent may approve or disapprove the on-on the results of the inspections under Section 366.055"; while system is not approved under this section, the on-site sewage disjuntil all deficiencies are corrected and the system is reinspected are or authorized agent".	inspected and approved by the 366.056 (a) states that "The site disposal system depending 366.055 (b) states that "If a posal system may not be used
All final permits are being held pending the correction of the about inspected and approved by this office. Use of the system without the appropriate legal action being initiated.	
Please contact our office at 903-389-3928 as soon as corrective action an inspection to verify that the deficiencies have been corrected	•
Inspector - Owney or Insta	aller

SSForm8 (Revised 1997)

ON-SITE SEWAGE FACILTIES (OSSF) SITE EVALUATION REPORT

Date:

January 18, 2000

Applicant:

Permitting Authority:

James Brown

c/o Jimmy Rash Construction Company

8628 South Highway 287 Corsicana, Texas 75110

(903) 872-5520

Tarrant Regional Water District

Route 1, Box 1660 Streetman, Texas 75859

(903) 389-3928

Property Location:

130 Manassas Square (Lots 36 and 37, The Wilderness), Preestone County, Texas

Site Analysis:

Total site area: ~2.2 acres

Proposed depth of OSSF excavation: < 1 foot

Restrictive horizon present? No

Depth to restrictive horizon: None observed within 50 inches at soil test locations

Presence or evidence of groundwater? See notes on Soil Analysis Test No. 2

Existing or proposed well within 100 feet of proposed OSSF? No

Estimated slope in OSSF area: 8 percent

Presence of nearby ponds, streams or drainageways? None within 75 feet

Is the proposed OSSF in a FEMA 100-year flood plain? No

Soil Analysis:

	~ -	-4
Test	No	
1626	110.	1.

Depth	Texture	Soil Class	Structure	Suitable/
(inches)	$\underline{(USDA)}$	(I through IV)	(Class III)	<u>Unsuitable</u>
0 12	fsl	Π		suitable
12 - 22	SC	Ш	sub. blocky	suitable
22 - 40	scl	Ш	sub, blocky	suitable
40 - 50	fsl	\mathbf{H}		suitable

Test No. 2:

Depth	Texture	Soil Class	Structure	Suitable/
(inches)	(USDA)	(I through IV)	(Class III)	<u>Unsuitable</u>
0 - 16	lfs	Ιь		suitable
16 - 36	scl	Ш	sub, blocky	suitable
36 - 50	scl	\mathbf{III}	sub, blocky	unsuitable*

^{* -} evidence of seasonal water table below 36 inches.

OVERALL SITE SUITABILITY:

Soil Criteria: Unsuitable (for standard soil absorption OSSF systems)

Site Criteria: Suitable

ATTESTED BY

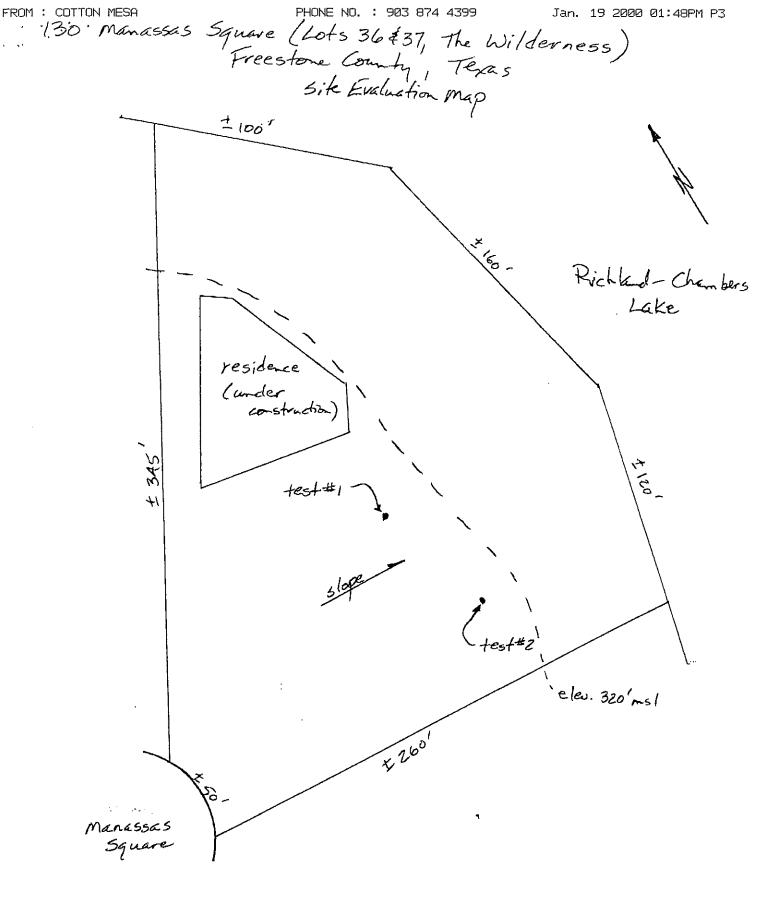
Edward F. Janak, Jr., CPSS 200 North 13th Street, Suite 113

Corsicana, Texas 75110

(903) 874-0223

Registration No. OS7350

Note: The test data and other information contained in this report do not imply approval of the proposed OSSF. The design, construction and installation of each OSSF are based on specific conditions peculiar to the site in question. This report must be reviewed and approved by the permitting authority prior to initiating construction of the proposed OSSF.



Approximate scale: 1"=50'

PHILLIP MARLAR R.S. REGISTERED PROFESSIIONAL SANITARIAN TEXAS REGISTRATION # 2604 PHONE (972) 452-8487 P.O. Box 274 SCURRY, TX. 75158

Subsurface (Drip) Irrigation
On - Site Sewage Facility System Design

July 18, 1998

James Brown 130 Manassass Square The Wilderness lot 34

Site Location: New System at above address

DESIGN PARAMETERS

Soil Evaluation - Class III Soil at application depth over class II & Ib soil

Number of Bedrooms - Square feet living area - 5,060 s.f.

Gallons per day - 420 gpd (6 bedroom design using water saving fixtures)

Application rate - .2 gal/sq ft / day

Required Disposal Area - 2,100 Sq. Ft.

Designed Disposal Area - 3,200 Sq. Ft,

2- Zones Zone 1- 1,600 sq. ft. Zone 2 - 1,600 sq. ft. = 3,200 Sq. Ft.

Zone 1-400 Emitters 8.86 gpm Appl. Rate - ,13 gal/sq ft / day

Zone 2- 400 Emitters 8.86 gpm Appl. Rate - .13 gal/sq ft/ day

Drip irrigation standards for class III soil, require an application rate of .2 gal / sq ft / day. For a 6 bedroom home (5,060 sq ft living area), area based on 420 gpd divided by .2 gal/sq ft/day (dosing rate) = 2,100 sq.Ft. 1,600' of emitter line with 800 emitters at 4 sq ft of area per emitter = 3,200 sq ft field area.

SYSTEM PARAMETERS

Pre-treatment tank - 500 gallon concrete

Acration Tank - 500 N Clearstream

Chlorinator - stackable - free flowing tablets

Pump tank - 500 gallon concrete

Pump - 1/2 H.P. Submersible "Clearstream"

Supply Line/Manifold Line/Backflush Line - 1" PVC SCH 40

Geo-Flow Wasteflow Drip Emitter Tubing

Emitter lines placed on 2' centers in lateral field

Filter - located in pump tank, automatic backwash (Spin filter - 150 Micron -operates at 20 psi)

Pressure regulator - set for 20 PSI

Vacuum breakers - each zone on highest elevation

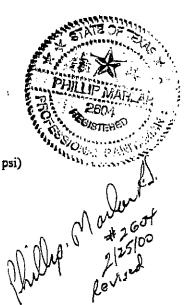
Valve - Cam operated valve used to switch dosing from zone 1 to zone 2 then repeat cycle

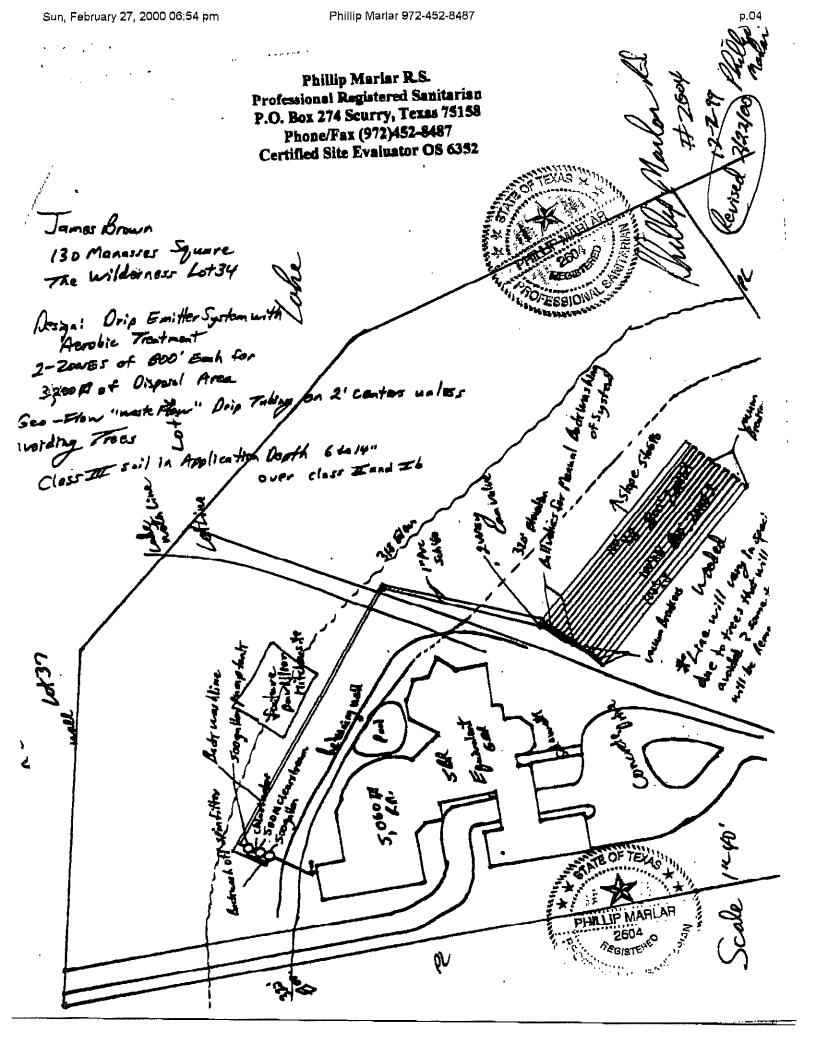
Manual ball valves at lowest point each zone for backflushing

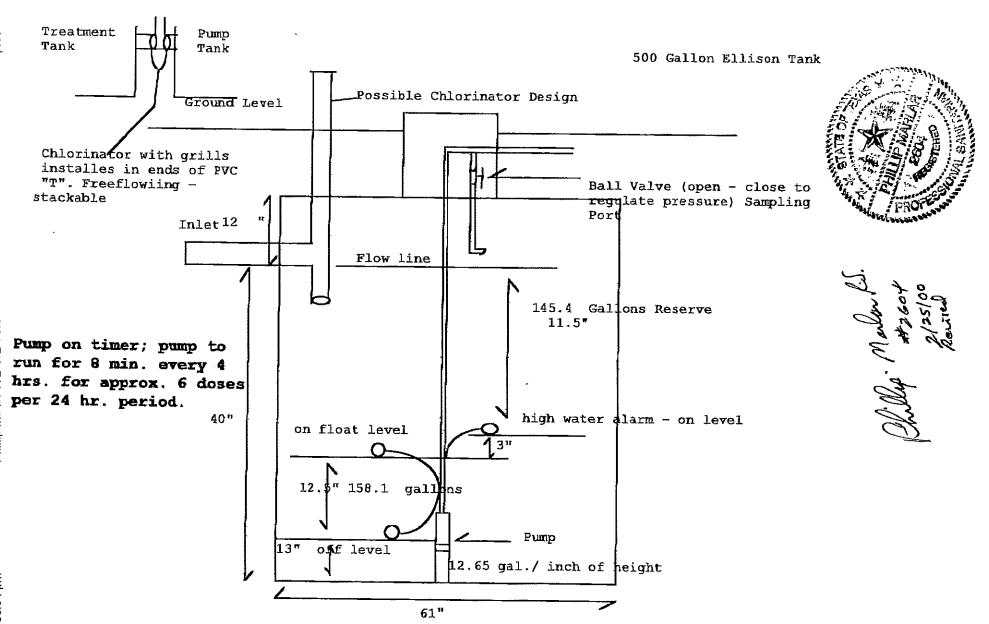
Pump on timer - pump to run for 8 min. every 4 hrs. (Approx. 6 doses per day)

SOIL ANALYSIS

Class III soil over class II & Ib soil







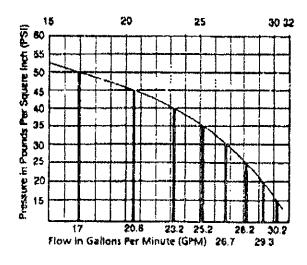
Pump Time 8 minutes for 70.8 gallons at 8.86 gpm at 20 psi.

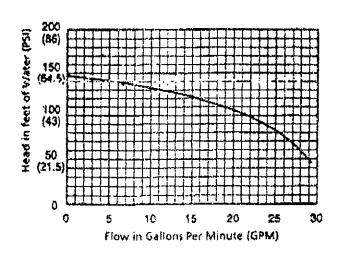
Total Head 70.01 FT at 8.86 gpm for 1" Sch 40 PVC piping.

1/2 RP Clearstream 0 8.86 gpm will deliver 134 FT total head.

TROUBLESHOOTING GUIDE

PROBLEM CHECK		CORRECTIVE ACTION
MOTOR WIN THE MARK SAIL TO	ees do tel birs	حسکوری ہی ہ
No voltage	No voltage at control box or discunnect switch.	Replace blown fuses or bad cable
-	Electrical cable bed.	Consult licensed electricien or servicement.
	Control box incorrectly wired.	Reconnect control box correctly (see Wiring Installation Disgrams),
Fuses blow or overload prote	scior trips when motor starts	
Wrong size fuse or wrong size time delay fuse.	Check fuse size against chart, Page 2.	Install correct fuse or lime delay fuse.
Wire size too small.	Check wire size against chart, Page 3.	install correct size with.
Low or high vottage.	Check that line votage is within x10% of nameplata rated vokage white motor is fulfilling.	If voltage variation is granter than \$10%, out power company or local hydro authorsy to adjust voltage.
Power supply wire leads not correctly connected to control box.	Check control bax wiring diagram against incoming power hookup. Check power supply was color cooling	Reconnect leads to match wiring diagram in control box cover. Reconnect power supply wires so wire solor code matches match lead color code.
Broken wire in control box.	Examine all connections and wiring in control box.	Disconnect power and repair or replace faulty wire.
Pump or motor stuck or binding.	Check for locked shaft in pump.	If necessary, pult pump (make all possible above growtd checks first). If pump is locked, replace it. Clean tank of all sand or lime, or solids thefore reinstalling pump.
Power supply wires or motor leads prounded, shorted, or open.	Consult licented electricism or qualified servicemen.	Have a qualified servicemen or electricish make necessor cable repairs.
Fusce blow or everlose prot	ector trips when motor is running	
Low or high voltage.	Ofsick list line vollage is within a 10% of rated microplate voltage white motor is running.	it voltage variation is more than x10%, cak power company to adjust voltage.
High ambient (atmospheric) temperature.	Chack temperature of tank	Protect tank from direct aurlight.
Wire size too small.	Chack wire size against chart, Page 3.	Install correct wire size.
Pump starts too frequently		
Lesks in system.	Check plumbing for leaks.	
Level switch.	Check for defective switch or switch out of adjustment.	Re-adjust or replace level switch
Check velves lesking.	Make sure check valves are not leaking back.	Replace check valves if necessary.
Little or no weter delivered		
Chack valve stuck ar installed backwards	Examine valve.	If stuck, free velvs; if installed backwerds, reverse R.
Low vokage.	Check voltage at control bex with pump running. Check incoming wire size and power supply wire size against chert, Page 3.	Install larger wire from meter to control box. Inetall larger wire from control box to pump. If necessary, have power company raise supply voltage.
Plugged Intake screen.	Pull pump and check condition of screen	Clean or replace as necessary.
Check valve at pump discharge stuck.	Pull pump and examine chack valve,	Free check valve
Warn impellers and diffusive.	Make sure system is closer of obstructions and pump is in solid water and operating normally.	Pieplace pump.
Fump doesn't develop enoug grossure ("head").	Check pump curve against operating conditions.	Replace pump with "higher head" pump.
Plugged Impellers	Pull pump and examine impellers	Clean impaliers or replace pump stack.





Performance in GPM at Various Sprinkler Pressures in PSI

PSI	15	20	25	30	35	40	45	50
GPM	30 Z	29.3	28.2	26.7	25.2	23.2	20.6	17

Performance in Feet of Head at Gallons per Minute

	GPM	0	5	10	15	20	25
Ì	FVHd	147	140	132	122	112	81

TWO YEAR INITIAL SERVICE POLICY

Date:	
Our firm, your Clearstream System for the first two inspections made each year full tion will include a visual inspection for codor. Mechanical and electrical inspection and alarm panel and replacing or repair	,will inspect and service wo years from the date of installation. There will be for this initial two year period. Effluent quality inspection, turbidity, sludge build up, scum overflow and ion and service include inspecting aerator, air filter, tring any component not found to be functioning cor-
rectly.	

Upon expiration of this policy, our firm will offer a continuing service policy on a yearly basis to cover labor for normal maintenance and repairs on a year by year basis.

Violations of warranty include shutting off the electric current to the system for more than 24 hours, disconnecting the alarm system, restricting ventilation to the aerator, overloading the system above its rated capacity, or introducing excessive amounts of harmful matter into the system, or any other form of unusual abuse.

THIS POLICY DOES NOT INCLUDE PUMPING SLUDGE FROM UNIT IF NECESSARY.

Service Dealer:

(Jung Park)

(S628 S. Huy 287

(Considered, TX 75710)

Owner:)

Karen Ir. Brown

130 Manasass Sq.,

Streetman TX