## RICHLAND CHAMBERS AREA CONSTRUCTION

## P. O. BOX 222 STREETMAN, TX 75859 (903) 389-8189

To Whom it may Concern:

On 4/23/14 a septic inspection was conducted at 1217 The Shores Dr., Corsicana, TX 75109, Lot 516, Phase VII, The Shores. The review included procuring a copy of the design and permit documentation for review and reviewing the physical plant on site. Permit review indicated it was permitted for Larry Schorn on 6/4/08. Review of the design documentation indicated an Aqua Aire AA500-4075 with 1984 linear feet of Geoflow P.C.

The system was designed by Phillip Marla RS 2604 on 4/8/08. The authorization to construct was issued by Stephen Harrison TRWD OS 21243 on 6/04/08. The system was installed by Perry Richter OSII 3111 and inspected by TRWD, Stephen Harrison OS 21243 on 06/2/08 with final approval issued the same day.

Review of the system revealed one issue. The access lids for the trash and aeration chamber were below ground level and could allow surface run-off into the tank. Risers should be added to circumvent this.

The review also concluded virtually no sludge or scum accumulation. The effluent distribution rate was consistent with the flow rate on the Geoflow P.C.

In addition to the deficiencies noted homeowners should be aware of some basic steps that enhance the longevity of the system and minimize chances for failure. Hydraulic overload (excess water flow) can lead to failure. This is caused by leaking or hanging toilets, leaking faucets, to many residents or guests for extended periods in the structure. Water filters, ice machines and other appliances that flush or defrost into septic also contribute to failure.

## TARRANT REGIONAL WATER DISTRICT

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

## AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY

	ON-SHE BEWAGE TACKETT
Application Number	RC08-038

Property Owner Larry & Linda Schom

Mailing Address 1203 Travis Cir. Irving, TX 75038

Property Location Lot: 516 The Shores 1217 The Shores Dr. Corsicana, TX 75109

Navarro 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 Commission on Environmental Quality and is based on a maximum daily flow of 360 gallons, the use of water saving devices is required.

Authorized District Representative OS-21243 Date

## TARRANT REGIONAL WATER DISTRICT

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

## NOTICE OF APPROVAL OF ON-SITE SEWAGE FACILITY

## **PERMIT # RC08-038**

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Property	Owner:

Larry & Linda Schorn

Mailing Address:

1203 Travis Circle

Irving, TX 75038

Property Location: Lot: 516 The Shores

1217 The Shores Drive Corsicana, TX 75109

Navarro County, Texas

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 Commission on Environmental Quality (TCEQ) 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.

ANY MODIFICATIONS TO THE SYSTEM STRUCTURE, OR ITS COMPONENTS, MAY REQUIRE A NEW PERMIT. The owner must notify this office of the aforementioned changes.

ADDITIONAL INFORMATION:		•	
Authorized District Representative	1243		
6-25-08			
Date			

SSForm7 (Revised 1997)

## TARRANT REGIONAL WATER DISTRICT

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

## ON-SITE SEWAGE FACILITY PROGRAM

## AEROBIC TREATMENT & DRIP EMITTER INSPECTION REPORT

PROPERTY OWNER: Larry & Linda Schorn PERMIT NUMBER: RC08-038			
1. SEWER	Christian manufaction to the state of	γ.	N
TWO-WAY CLEANOUT PROPERLY INSTALLED:		V	
PROPER TYPE PIPE FROM STRUCTURE TO DISPOSAL SYSTEM	M:	1	
SLOPE OF SEWER 1/8 INCH PER FOOT MINIMUM:			
III! PRETREATMENT TO THE PRETREATMENT TO THE PRETREATMENT OF THE PRETREATMENT OF THE PRETREATMENT OF THE PRETABLE OF THE PRETA	THE REAL PROPERTY OF THE PARTY	Your	Ň.
IS PRETREATMENT REQUIRED?			
TANK PROPERLY PLUMBED?			
TANK SIZE REQUIRED: 400 Gal. TANK SIZE INS	STALLED: 400 Gal	***	**
TANK TYPE: CONCULT MANUFACTU	JRER: Ecological Tanks	; i¥¥57	
III. AEROBIGITEATMENT UNIT	TOTAL TRANSPORTER	#YE	-NIP
UNIT SIZE REQUIRED 500 GPD UNIT SIZE II	NSTALLED 500 GPD	**	
MANUFACTURER: Ecological Tanks		** (And All	**
MODEL NUMBER: AA 500-4075 SERIAL NU	UMBER: AA025881	本本	**
TYPE OF AERATOR Aqua Aire SERIAL N	UMBER: AAD 25881	**	**
HIGH WATER ALARM INSTALLED? (check type)	LIGHT B SOUND		
FILTER INSTALLED (if required)?	-	レ	
ALARM WIRING SEPARATE FROM PUMP?		V	
CHLORINATOR PROPERLY INSTALLED?		V	
CHLORINE TABLETS IN PLACE?		NA	
MAINTENANCE INSPECTION TAG IN PLACE			<u> </u>
IV: PUMP TANK	Comment of the second	25	r-Fj
	SIZE INSTALLED: 76 Gal		
	JFACTURER: Ecological Tanks		
TYPE AND SIZE OF PUMP: Starite 1/2 hp 100190	513)		
CORRECT TIMER INSTALLED: Yes RUN TIMI "V. APPLICATION" AREA (SUB-SURFACE ONLY)" THE PROPERTY OF THE PROPERTY O	E: 3,5 OFF TIME:	E 215	
V. APPLICATION AREA (SUB-SURFACE ONLY) 地址 中国	。 一种, 一种, 一种, 一种, 一种, 一种, 一种, 一种,	<u>₹7-₹.</u>	\$22 -4
	TALLED: 3968 ft2		
TYPE LINE INSTALLED: Geo-Flow Wasteflow "PC"  LENGTH OF DRIP EMITTER LINE INSTALLED: 1984'			
	•		
LENGTH OF LOW PRESSURE DOSING LINE INSTALLED: DIA SPACING OF LINE INSTALLED: 2'	<u> </u>		
DEPTH OF LINE INSTALLED: 9-12"			
oos o ara ma			
COMMENTS: Presence set at 25 PSI			
n. 11			
INSPECTED BY: OS-21243	DATE: 6-25-08		

SSForm6 (Revised 2003)



## BUILDING PERMIT COUNTY OF NAVARRO, TEXAS

Nº 10159

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PLIMBING Dania	ADDRESS		PHONE
MECHANICA Waldrin	ADDRESS		PHONE
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THIS PERMIT BECOMES NULL AND OR CONSTRUCTION AUTHORIZED IS MENCED WITHIN 6 MONTHS, OR IF STRUCTION OR WORK IS SUSPENIONED FOR A PERIOD OF 1 YEAR AFTER WORK IS COMMENCED.	NOT COM- CON- DED OR ABAN-	LAW AND ORDINANCES COMPLIED WITH WHETH OF A PERMIT DOES NOT CANCEL THE PROVISION	O BE TRUE AND CORRECT. ALL PROVISIONS OF GOVERNING THIS TYPE OF WORK WILL BE IER SPECIFIED HEREN OR NOT. THE GRANTING PRESUME TO GIVE AUTHORITY TO VICKATE OR NS OF ANY OTHER STATE OF LOCAL LAW RUCTION OR THE PERFORMANCE OF
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PECIAL CONDITIONS:			
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April 8, 2008

Tarrant Regional Water District Designated Representative Chris Robinson

Regarding: Variance request on the 320' elevation property line buffer distance The Shore Drive Corsicana, from the drip field at the Schorn residence at Texas. (The Shores lot 516 / Phase 7)

The variance is being requested because no other alternative system can be installed on the lot without a variance request. The subject site is located on approximately .5+ acre lake front tract. A drip disposal system is being proposed for the waste water system for the property. The home has 4 bedrooms and 3.652 square feet of living area.

Due to the size of the home and the very restrictive and limited area for the disposal field in the front and side yards, part of the drip field will be installed below the platted 320' elevation. All drip lines will be above the 318' elevation, which is closer to the retaining wall and lake. The other property lines will have the required 5' buffer distance.

Every available area is being used first, to install the disposal field and obtain the required buffer distances from drip lines. The street side of the home is very limited for drip line due to some trees, the water line and water main, and a sidewalk.

The closest drip line would be 53' away from the edge of the lake at the retaining wall.

The over all situation listed above would not adversely affect the environment, neighboring property, or water quality.

ions, call me.

Marlow KS.

42604

56#9819

418/08 If there are questions, call me at 972-452-8487.

Phillip Marlar R.S.

## OSSF SOIL & SITE EVALUATION

Page 1	(Soil	&	Site	Evs	lua	tion)	Ì
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Date Performed: 4/8/08

Property Owner: Schorn Residence

Site Location: Share Drive Corsicana, Texas 75109

Proposed Excavation Depth: 12"

**REQUIREMENTS:** 

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil borings 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 disposal field excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on this form. Indicate depths where features appear.

SOIL BORING

į	NUMBER:	1
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Depth (feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage ( Mottles / Water Table)	Restrictive Horizon	Observations
1 feet	IV	N/A	No	Yes	Clay
2 foci	ΙV	N/A	No	Yes	Clay
3 feet	ΙV	NA	No	Yes	Clay
4 Tect	ען	N/A	No	Yes	Clay
5 feet	]V	NA	No	Yes	Clay

## SOIL BORING

NUMBER: 2

Depth (feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/Water Table)	Restrictive Horizon	Observations
1 feet	IV	NA	No	Yes	Clay
2 fcct	īv	N/A.	No	Yes	Clay
3 Foct	_ iv	NA	No	Yes	Clay
4 foct	IV	N/A	No	Yes	Clay
5 feet	iv	NA	No	Yes	Clay

	FEATURES OF	SITE AREA	
Presence of 100 year flood zone		X Yes	No
Presence of Upper Water Shed		aY	X No
Presence of adjacent ponds, streams, water imp	noundments	X Yes	_
Existing or Proposed water well in nearby area	(within 150 feet)	Yes	
Ground Slope	-	£ 40.7 At	22-10
I certify that the findings of this report and base	ed on my field observa	tions and are accurate to the best of	exhilida yur
theles V rolan K #	ZEDY HIDIND	(Fith Dia	SCOTTEXAS!
(Cionalum of management)	Halix	3-19019	SAN STA
(Signature of person performing evaluation)	(Date)	Registration Number and Type	A7 *
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			W. DIONAL O

 The existing creeks or drainage channels traversing along or across the addition will remain as open channels and sell be maintoined by the individual owners of the lat or late traversed by an adjacent to the drainage courses along or across said tots. 1. Blocking of the now of the flood way is prohibited. OPEN SP AND LOS PARAGRI Navarra County will not be responsible for the maintenance and operation of said drainage ways or for the 2.) A 20° U1 4. Navoira County will not be responsible for any demogs, personal injury or loss of life or property accessanced by fiboding or flooding conditions. AFEX III 3.} NO WITH 4.) A 10 U S.) A DRAI ALL CRI SAID PI TRIBUTI 6.) THE G PROY TEXA: DELIF PIPEI PLAC UNU COH: 7.) THE E) WATE FICHLAND-CHAMBERS RESERVOIR 9.) **E**M #TH TOWART CHIRTY Moter Control towns of the Proposition of the State of Manhart Manhart One IO.) TEN 11.) PC REVISED 320' ESMT. SEE DETAIL "L" 12) R Exhibit To Easement than Parcel Call 18.31 Ac. Harry Danald Michaelan Toront County Water Cantral and Improvement District Number Co.e. 13.} REMSED 320' ESMT. SEE DETAIL "W" RICHL PRODUCE EDCENOR SIS CONTOUR 519 0,848 Ac. / 0.592 X. 04-74591 2 218 The state of the s of Cast Carpons and the second of SE DETAIL SO TON! COUNTY Motor Carlles and for the Montage One. Long Started College of College o The Carling N BITE Call 172.589 Ac. Harry Danald Nichalson, Sr. and Margaret L. Michalson Forth of the Constant of the Athles of the A TON! COUNTY Motor Contrat ON TO NAME OF THE PROPERTY NAME OF THE PROPERTY OF T Texas Land & Lokes, LTD. 7-28-2005 1770/584 ABBRITALA TA I OCA MON SIE CONTON PICHLAND-CHAMP-

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Page 2	(Soil	&	Site	Evalu	ation)	c

Date Performed: 418 108

Site Location: The Shores Move 7/Lot 5/6 Subsurface Disposal

☐ Surface Disposal

Orricana Schematic of Lot or Tract

## Show:

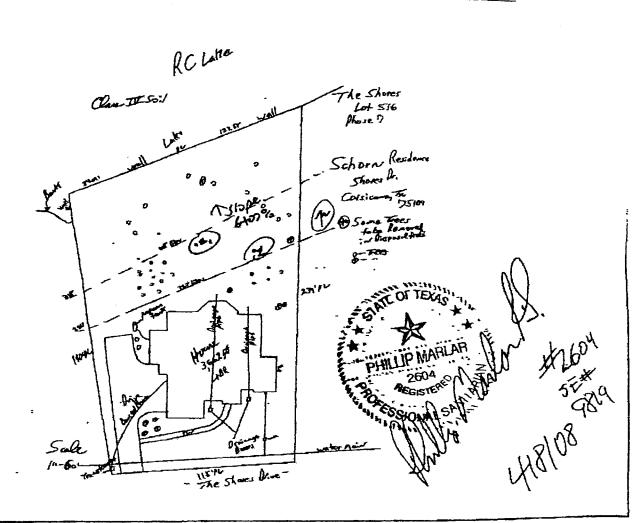
Compass North, adjacent streets, property lines, property dimensions, location of buildings, easements, swimming pools, water lines, and any other structures where known, all to scale.

Location of existing or proposed water wells within 150 feet of the property.

Indicate slope or provide contour lines from the structure to the farthest location of the proposed disposal

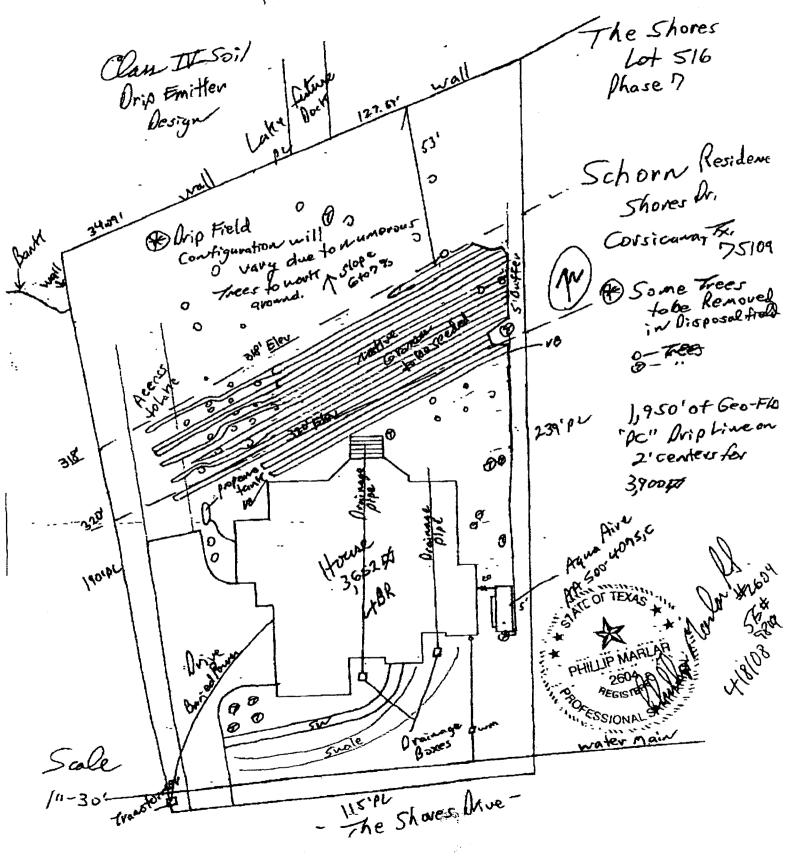
Location of soil boring or excavation pits (show location with respect to a known reference point). Location of natural, constructed, or proposed drainage ways (ditches, streams, ponds, lakes, rivers, etc.). water impoundment areas, cut or fill bank, sharp slopes and breaks.

or Acreage: Lot Size: SITE DRAWING



Form # PA6/030204-Final

RClatte



# PHILLIP MARLAR R.S. REGISTERED PROFESSIIONAL SANITARIAN TEXAS REGISTRATION # 2604 PHONE (972) 452-8487

P.O. Box 274 SCURRY, TX. 75158

Subsurface (Drip) Irrigation

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

April 8, 2008

Schorn Residence
The Shores Drive
Corsicana, Texas 75109

Site Location: The Shores Est. Phase 7; lot 516: Installing new drip emitter system.

#### **DESIGN PARAMETERS**

Soil Evaluation - Class IVsoil

Number of Bedrooms - 4 Square feet living area - 3,652 s.f. (5 bedroom equivalent)

Gallons per day - 360 gpd (Water Saving Fixtures)

Application rate - .1 gal/sq ft / day (Class IV Soil application rate)

Required Disposal Area - 3,600 Sq. Ft. Designed Disposal Area - 3,900 Sq. Ft.

1-Zone Zone 1-3,900 sq. ft. (1,950' of Geo-Flow "PC" line)

Zone 1-975 Emitters at .53gal/hr - 8.61 gpm Appl. Rate - .0927 gal/sq ft / day

Drip irrigation standards for class IV soil, require an application rate of 1 gal/sq ft/day. For a 4 bedroom home (<4,500 sq ft living area)( water saving fixtures), area based on 360 gpd divided by 1 gal/sq ft/day (application rate) = 3,600 sq.Ft.

1,950' of emitter line with 975 emitters at 4 sq ft of area per emitter = 3,900 sq ft field area.

### SYSTEM PARAMETERS

Pre-treatment tank - 400 gallon tank

Aeration Tank - Aqua Aire 500-4075, C (500 gpd) (Required dial-up alarm Aqua Safe model 214

(PC-3BRAPC))

Chlorinator - stackable - free flowing tablets (Optional)

Pump tank - 750 gallon pump tank

Pump - 1/2 H.P. Submersible

Supply/Manifold - 1" PVC SCH 40 / Return line - 1 " PVC SCH 40

Geo-Flow "PC" Pressure Compensating Drip Emitter Tubing

Emitters placed on 2' centers in lateral field / all lines looped

Filter - located in pump tank, automatic backwash (Spin filter - 100 Micron Mesh -operates at 20 p

Pressure set for 20 to 50 PSI

Vacuum breakers - on highest elevations on supply & return lines

Ball Valve on return line used to continuly backflush drip field to pump tank chamber

Dosing Volume - 30.13 gallons (Approx. 12 doses per day)

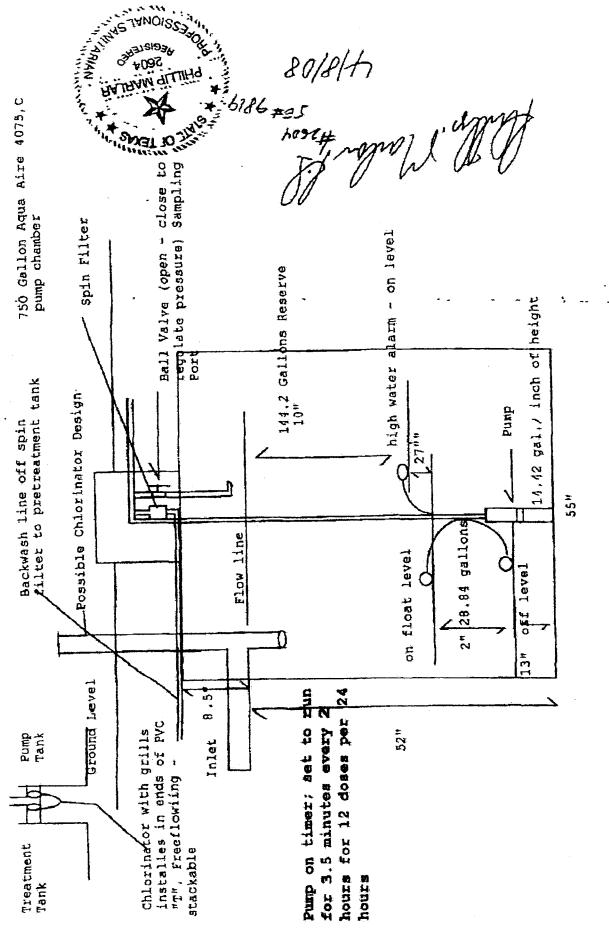
Timer used on Pump to dose field - Pump run time per dosing approx. 3.5 min. every 2 hrs.

SOIL ANALYSIS

Class IV Soil

PHIL S at 20 ps 10

Month of 18/08/34



Pump Time 3.5 minutes for 30,13 gallons at 8,61 gpm at 15 to 55 psi.

gpm for 1" sch 40 PVC plping 6 30 psi. Total Head 82,85 FP at 8.61

1/2 HP Submersible ( 8.61 gpm will deliver 140+ FT

total head,