

TEXAS ASSOCIATION OF REALTORS®

INFORMATION ABOUT ON-SITE SEWER FACILITY

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CO	NCERNING THE PROPERTY AT	326 Zapałac Rd Smithville, TX 78957-2135	
A.	DESCRIPTION OF ON-SITE SEWER FACILITY	ON PROPERTY:	
	(1) Type of Treatment System: Septic Tank	Aerobic Treatment	Unknowr
	(2) Type of Distribution System: <u>ReRobic</u>		Unknown
	(3) Approximate Location of Drain Field or Distribution	ution System: <u>South Side of</u>	Unknowr
	(4) Installer:		Unknown
	(5) Approximate Age: 10 years	, VIII. TO THE TOTAL AND A SECOND SEC	Unknown
₿.	MAINTENANCE INFORMATION:		
	(1) Is Seller aware of any maintenance contract in If yes, name of maintenance contractor: 50 Phone: 512-581-7071 contractor	lings excavating ILC	Yes No
	Maintenance contracts must be in effect to ope sewer facilities.)	erate aerobic treatment and certain non-	standard" on-site
	(2) Approximate date any tanks were last pumped	17 2016	
	(3) Is Seller aware of any defect or malfunction in If yes, explain:		∏Yes XNo
C	(4) Does Seller have manufacturer or warranty inf PLANNING MATERIALS, PERMITS, AND CONT		☐Yes XNo
.0.	(1) The following items concerning the on-site sew planning materials permit for original in maintenance contract manufacturer infor	ver facility are attached: stallation final_inspection_when_OS	SF was installed
	(2) "Planning materials" are the supporting materials submitted to the permitting authority in order to		
	(3) It may be necessary for a buyer to ha transferred to the buyer.	ve the permit to operate an on-sit	e sewer facility
(TAI	R-1407) 1-7-04 Initialed for Identification by Buyer	,and Seller,	Page 1 of 2
RE/M	X Bastrop Area, 87 Loop 150 West Bastrop, TX 78602	Phone: 512.921.9134 Fax: 512.366.90	513 326 Zapalac Road

Produced with zipForm® by zipLogix 18070 Fifteen Mile Road, Fraser, Michigan 48026 www.zipLogix.com

Janis Penick

D. INFORMATION FROM GOVERNMENTAL AGENCIES: Pamphlets describing on-site sewer facilities are available from the Texas Agricultural Extension Service. Information in the following table was obtained from Texas Commission on Environmental Quality (TCEQ) on 10/24/2002. The table estimates daily wastewater usage rates. Actual water usage data or other methods for calculating may be used if accurate and acceptable to TCEQ.

<u>Facility</u>	Usage (gal/day) without water- saving devices	Usage (gal/day) with water- saving devices
Single family dwelling (1-2 bedrooms; less than 1,500 sf)	225	180
Single family dwelling (3 bedrooms; less than 2,500 sf)	300	240
Single family dwelling (4 bedrooms; less than 3,500 sf)	375	300
Single family dwelling (5 bedrooms; less than 4,500 sf)	450	360
Single family dwelling (6 bedrooms; less than 5,500 sf)	525	420
Mobile home, condo, or townhouse (1-2 bedroom)	225	180
Mobile home, condo, or townhouse (each add'l bedroom)	75	60

This document is not a substitute for any inspections or warranties. This document was completed to the best of Seller's knowledge and belief on the date signed. Seller and real estate agents are not experts about on-site sewer facilities. Buyer is encouraged to have the on-site sewer facility inspected by an inspector of Buyer's choice.

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Si	gnature	of	Seller	

Todd McDonald

Receipt acknowledged by:

Signature of Buyer

Data

Signature of Seller

Kimberly McDonald

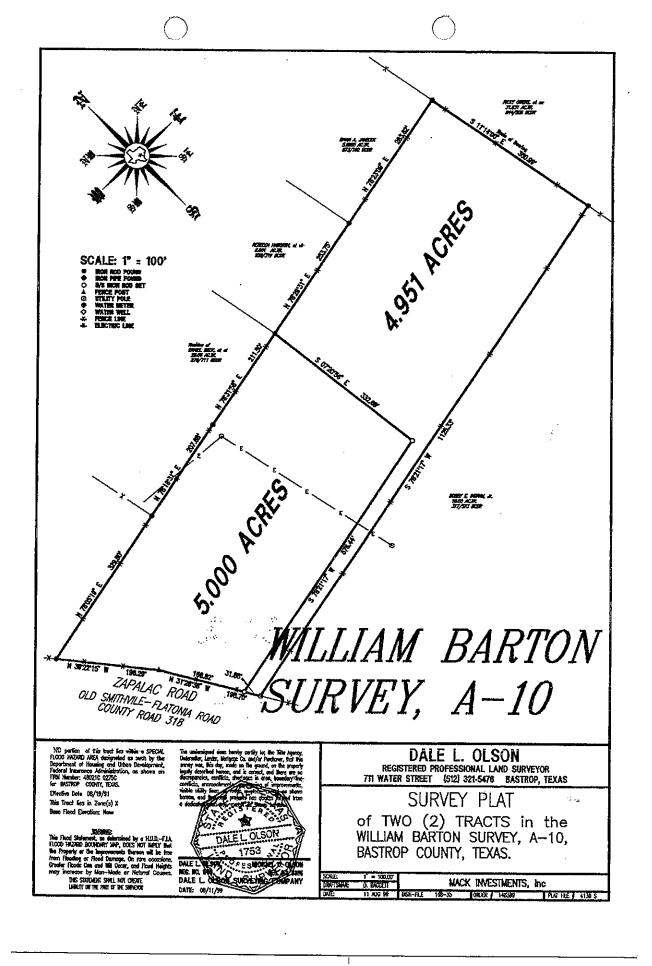
Date Signature of Buyer

Date

1 Donlo

BASTROP COUNTY HEALTH & SANITATION FO BOX 802 BASTROP, TEXAS 78602 512/332-7276 OSSF - LICENSE TO OPERATE

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The considerance facility is an invariant	<u></u>
is hereby increased in the above location has passed at	all inspects for compliance with the County Ordinance and State Standards, A License To Operate
is hereby issued in the name of the property owner/applicant.	of Talland and State Simorras. A License To Operate
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FORM 300-07	,
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SYSTEM SUMMARY

Prepared for: Mack Investments

326 Zapalac Road Smithville, Texas Bastrop County

Property Description: 9.9 acre homesite within a larger tract

Design Parameters

1 Wastewater Usage: <2,500 sf home with 3 bedrooms

2 Design Flow Rate: 240 gpd.

3 Irrigation Area Loading Rate: 0.064 gpd/sf.

4 Area Required: 3,750 sf 5 Area Designed: 5,281 sf 6 System Parameters

Pretreatment Tank: 500 gal.
Treatment Unit: AQUA SAFE A.S. 500L (rated capacity 500 gallons/day)

Pump Tank: 750 gallon capacity

Pump: 6 gpm @ 77' TDH

Chlorinator:

Tablet Chlorinator	Quantity	Units
Design Flow:	240	gpd
Tablet Size:	140	grams/tablet
% Chlorine:	70	%
Chlorine/Tablet:	98.0	grams/tablet
BOD ₅ requirement:	20	mg/L
Chlorine Dosage Required:	15/13.6	mg/Liter or grams/day
Tablet Consumption:	0.14	tablet/day
	7.2	days/tablet
Tablet Storage (120 days):	17	tablets(minimum)or equal

Sprinkler Area: 5,281 square feet

8. Sprinkler Heads: 2 K-Rain #3LA, 29' radius or equivalent

3 gpm each @ 30 psi

1. SITE EVALUATION

A site evaluation was conducted on the property. The site evaluation indicated that an aerobic or a low pressure dose system is appropriate for the property. A completed site evaluation form is attached.

PARAMETER	DESCRIPTION	SUITABLE/ UNSUITABLE [2]
Topography	0-5% Slope	Suitable
Test Hole 1	0-2" below ground surface; Dark Brown, Formed a Ball, Ribboned >1/2"; No structure, Gritty Texture, Sticky Class II Sandy Loam	Suitable
	2-24" below ground surface; Black color; Formed a Ball, Ribboned >2"; Blocky Structure, Smooth, No mottling, Restrictive Horizon Class IV Silty Clay	Suitable
	24" to 48" below ground surface; Black Color; Formed a Ball, Ribboned >2"; No mottles; Smooth Texture; Blocky Structure, Restrictive Horizon, Class IV, Silty Clay	Unsuitable
Test Hole 2	0-20" below ground surface; Black color, Formed a Ball, Ribboned 2"; Blocky Structure, Neither Gritty nor smooth, Class IV Clay	Unsuitable
	20" to 30" below ground surface; Black Color with gray patches; Formed a Ball, Ribboned >2"; No mottles; Smooth Texture; Blocky Structure, Restrictive Horizon, Class IV, Silty Clay	Unsuitable
	30" to 50" below ground surface; Black Color; Formed a Ball, Ribboned >2"; No mottles; Smooth Texture; Blocky Structure, Restrictive Horizon, Class IV, Silty Clay	Unsuitable
Groundwater	Soil profile indicates no sign of seasonal groundwater.	Suitable
Flood Hazard	Site is not within 100-yr floodplain.	Suitable

[a] Relative to a standard system

The aerobic system will be designed to accommodate all flows including gray water from a new 1,200 sf house with 3 bedrooms on an approximate 9.9 acre homesite.

2. SYSTEM TYPE Non-standard

Aerobic Treatment with Surface Irrigation Disposal

3. SYSTEM MANUFACTURER

Ecological Tanks Inc. 2247 Hwy. 151 N Downsville, La. 71234 (318) 644-0397, Fax (318) 644-7257

4. SYSTEM SIZE

Table III of 30 TAC Chapter 285 indicates that the daily flow rate for a three bedroom home with less than 2,500 sf is 240 gpd (gal /day).

5. SYSTEM CONFIGURATION

Pretreatment Tank: 500 gallon

Treatment System: AQUA SAFE A.S.500L (rated capacity 500 gallons/day)

Pump Tank: 750 gallons.

Treated Effluent Disposal: Surface irrigation by sprinklers controlled by commercial

irrigation timers.

6. EFFLUENT QUALITY DATA

Biological Oxygen Demand (BOD) & Total Suspended Solids

 30 day average
 20 mg/L

 7 day average
 30 mg/L

 Daily Maximum
 45 mg/L

 Single grab
 65 mg/L

 pH
 6.0-9.0

7. EFFLUENT DISINFECTION

Treated effluent must be disinfected with chlorine prior to irrigation. Tablets or other dry chlorinators must use calcium hypochlorite of a type suited for wastewater disinfection.

8. MAX SURFACE APPLICATION RATE, Ri

Maximum application rates for surface irrigation of treated effluent is 0.064 gallons/square foot/day from 30 TAC Chapter 285, Figure 1.

9. REQUIRED SURFACE AREA, A

A=Q/Ri = 240 gpd / 0.064 gpd/sf = 3,750 sf

10. SPRINKLER HEAD SPECIFICATIONS

K-Rain Model #3 LA or equivalent
Trajectory = 11 degrees
Radius = 29 feet @ 30 psi
Flowrate = 3.0 gpm
Coverage Area = 3.14*r²= 3.14*29 ft.*29 ft = 2,640 sf

11. Number of Sprinkler Heads

Number of heads = 3,750 sf/2640 sf/head = 1.4Use 2 sprinkler heads

12. SPRINKLER HEAD CONFIGURATION

Sprinkler heads will be placed in a linear configuration with a 58 ft spacing between heads and no spray area overlap as shown on the drawing.

13. DISTRIBUTION PIPING

Distribution piping must be 1 "Schedule 40 PVC.

14. PUMP SIZING

Flow Rate = 2 sprinkler heads * 3 gpm = 6 gpm

Total Head Calculations

Assume Elevation Head = 4'

Pressure Head (Sprinkler Head) = 69° = 30 psi

Friction Head for 1 " pipe = 1.2 * (155 ft supply line * 2.14'/100') = 3.98' Say 4'

Total Head = 4' + 69' + 4' = 77'

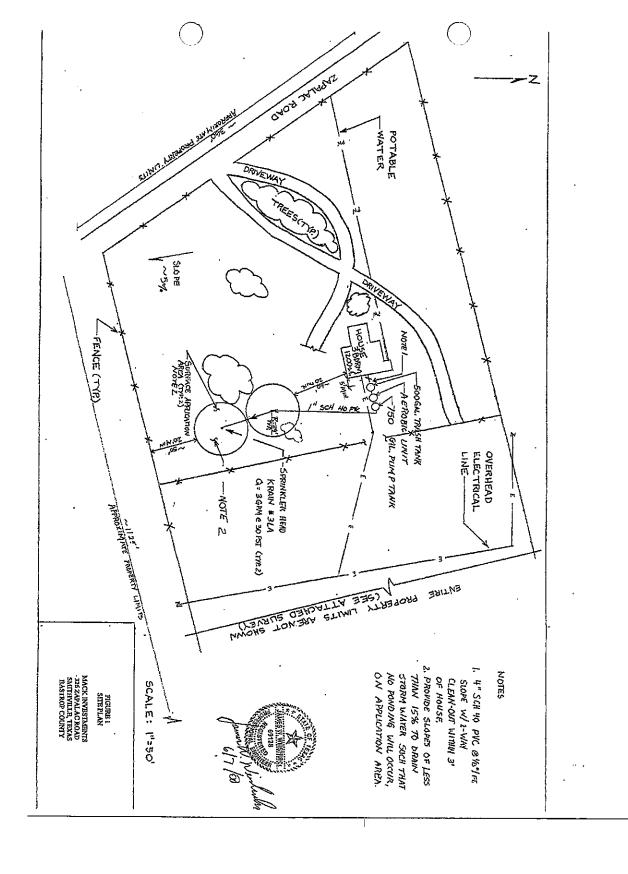
The pump must be sized for 6 gpm @ 77' of head.

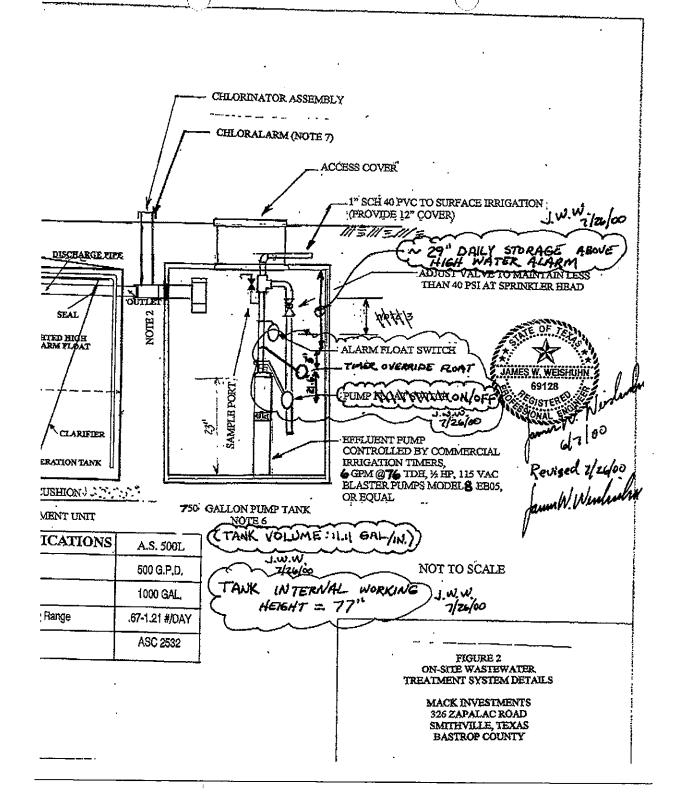
15. LANDSCAPE PLAN

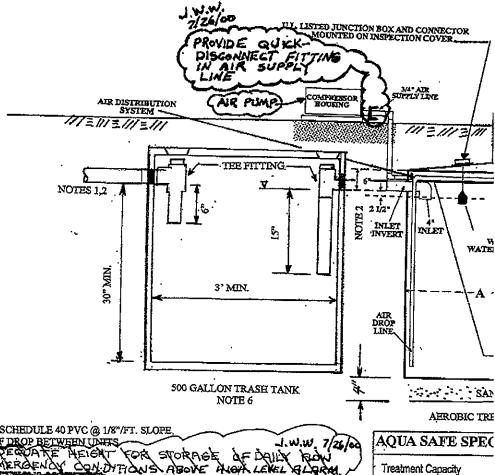
The irrigated area must be continuously covered or seeded with Common Bermuda, St. Augustine, or Annual Rye grass. The area must initially be covered with sod or 15 pounds of Common Bermuda seed (an equivalent rate of approximately 100 lb./acre). After initial seed has germinated (approximately 2-3 weeks), bare spots must be seeded again. Should Bermuda or St. Augustine become dormant during winter months, irrigated area must be seeded again with 15 pounds of Annual Rye grass.

16. SYSTEM MAINTENANCE CONTRACT

The homeowner must maintain a valid signed maintenance contract with a valid maintenance company. The initial maintenance contract must be valid for a two year period. Subsequent contracts must be submitted to the Bastrop County Designated







1. 4" DIAMETER SCHEDULE 40 PVC @ 1/8"/FT. SLOPE

NOTES

PROVIDE 3" OF DROP BETWEEN UDITS

"ROYIDE AVERDATE HEIGHT FOR STORAGE OF DAILY ROW

PROVIDE EXTENSIONS AS MEEDED."

TROVIDE EXTENSIONS AS MEEDED.

5. PROVIDE CONTROL PANEL FOR AEROBIC UNIT AND PUMP TANK, PUMP TANK CONTROL WILL PROVIDE FOR NIGHT IRRIGATION WITH REPEAT CYCLE CAPACBILITY (3 DOSES OF **80** GALLONS AT 2 HOUR FREQUENCIES). PANEL LOCATION TO BE FIELD DETERMINED.

TANKS MUST MEET THE SPECIFICATIONS OF ASTM C-1227-93a

7. INSTALL A CHLORALARM SYSTEM IN THE CHLORINATOR PUMP TANK SYSTEM TO SIGNAL LOW CHLORINE TABLET LEVELS AND SHUT-DOWN THE SURFACE APPLICATION PUMP IF ONLY ONE TABLET IS PRESENT IN THE CHLORINATOR.

Volumetric Capacity

Recommended B.O.D. $_5$ Los

Aerator-Aqua Safe Compres

(B. PROVIDE AUDIO & VISUAL ALARMS FOR AIR PUMP FAILURE & HIGH WATER CONDITIONS IN THE PUMP TANK. ALARMS TO BE LOCATED IN PANEL DETAILED IN NOTE 5.