

**CITY OF TUSCULUM
FIRST IN EDUCATION**

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February 24, 2014

To: Tusculum property owners along East AJ Hwy

From: John Foster, Mayor, City of Tusculum

Subject: Sewer Project along East AJ Hwy

I am sure you have been following the newspaper articles in *The Greeneville Sun* over the past couple of years concerning Tusculum's effort to provide sewer service along AJ Highway for both existing residents and businesses. The reason for sewer service is driven by the need to serve existing businesses and residents, some of which have failing systems and have been cited by the Tennessee Department of Environment and Conservation (TDEC). Also some of the best property in Greene County for retail business growth is located along the East AJ Highway. Revenue realized from Tusculum's portion of the local option sales tax from this expected business growth will help to ensure that Tusculum will be able to continue to provide the many services currently enjoyed by our residents and businesses.

Only current properties with failing sewer systems as determined by the Tennessee Department of Environmental and Conservation (TDEC) will be required to connect to the sewer system. It will be optional for all others, although I encourage others to connect. All future residents and businesses will be required to connect.

A sewer trunk line will be installed starting at Tusculum city limit near the new Consumer Credit Union Bank and ending at Afton crossroads. All trunk lines will be installed on state right-of-way. A contract has been signed and construction will begin on approximately March 31, 2014 and completed by September 30, 2014. The treatment plant will be located on a two-acre site west of the AJ Highway on property purchased from the Ben Russell family. The system has been approved by the State of Tennessee and the US Environmental Protection Agency (EPA).

The treatment system is known as Decentralized Wastewater Treatment System. The company whose treatment equipment will be used has installed over 800 of these systems, many of which are located in Tennessee. It is a proven technology. Basically, the system uses new waterproof septic tanks installed at each location, with a pump that delivers waste water to the treatment plant. The waste water is treated and disposed of underground by using a series of irrigation lines. All equipment is installed underground with only an electrical building on site.

The waste water pumped from septic tanks is what is discharged into traditional field lines.

Septic Tanks:

The cost of new septic tanks, pump, connection lines to the street and electrical connections will be the customer's responsibility. There will be no additional tap fee. Our engineers will prepare

specifications and obtain bid prices to assist customers. Only approved tanks and equipment will be installed. When prices become available, we will communicate with you. Our engineers will supervise and inspect all installations. After installation, the City of Tusculum will be responsible for inspection of tanks, replacement and payment for replacement pumps when required, and pumping sludge from tanks as required.

We have tried to obtain grant monies to help with septic tank cost; however, we were only partially successful finding a possible grant. We have applied for a grant with Tennessee Department of Agriculture Clean Water Act, which would cover 66% of the cost *if* it is approved for funding. *Only* properties with failing sewer systems as determined by TDEC would qualify.

Monthly Sewer Rates:

While rates have not been completely established, our goal is to set rates comparable to Town of Greeneville rates for outside customers. We may need to charge a small monthly fee to help offset our cost to maintain tanks as outlined above.

As more information becomes available, we will be available to meet with all property owners as a group, assisted by our engineers, to further explain and answer your questions.

This has been a long and difficult process in getting to this stage of the project, and I just wanted to share with you all the information we have to this point.

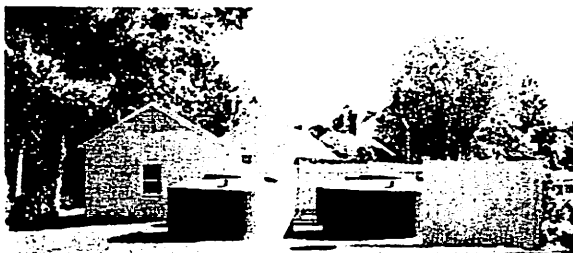
Please feel free to call me at 638-7907 if you have questions and I will try to get your answers.

Sincerely,



John D. Foster
Mayor, City of Tusculum
fosterfarm3@embarqmail.com

cc: Alan Corley, Vice Mayor
Barbara Britton, Commissioner



BIOCLERE™ Wastewater Treatment Systems

Features & Benefits

- Treats flows from 200 to 100,000 gpd
- Cost effective treatment with efficient installation and operation
- Treats high strength wastewater
- Internal flow stabilization treats intermittent flows
- Fully automated pump system
- Self adjusting process control
- Small footprint / Compact design
- Gravity flow system
- Quiet operation
- Sealed and insulated for seasonal conditions
- Durable UV resistant fiberglass construction
- Minimal energy usage
- Remote monitoring control options

The Bioclere Advantage

Bioclere is a modified trickling filter over a clarifier. It is designed to treat wastewater with varying organic and nutrient concentrations as well as intermittent flows. Bioclere's natural fixed film treatment process is stable, simple to maintain and inexpensive to operate.

Bioclere reduces biochemical oxygen demand (BOD5) and total suspended solids (TSS) to levels that meet or exceed NSF and EPA standards. As water trickles through the biofilter, organic material is consumed by a

population of microorganisms that form on the surface of the media. Sloughed solids from the biofilter filter are returned to the primary tank as secondary sludge and treated water is displaced to the next treatment component or the disposal area.

Bioclere is a modular technology. Units can be installed in parallel to accommodate large flows or in series to achieve high levels of treatment. The systems are sealed and insulated to minimize the impact of seasonal temperature variations on the treatment process.

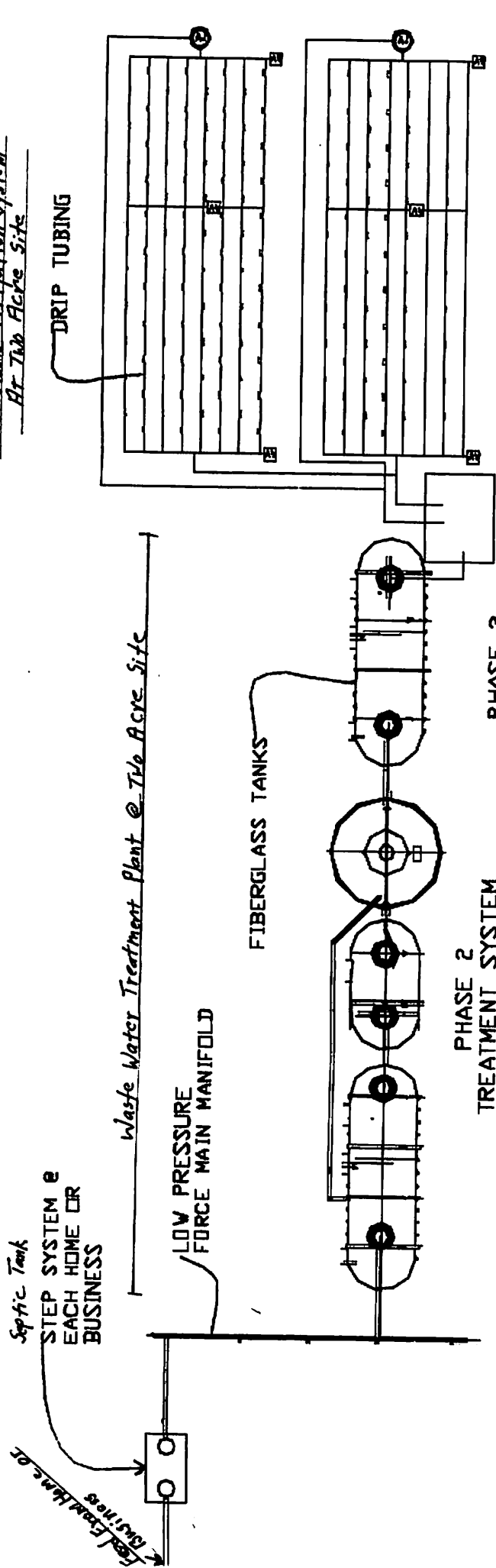
Nitrogen Reduction

Bioclere systems can be designed to consistently convert and reduce nitrogen. Total nitrogen is reduced substantially and cost effectively by recirculating nitrified water from the Bioclere back to the primary settling tank. Large Bioclere systems may incorporate a second stage nitrifying Bioclere and a tertiary anoxic reactor to achieve < 10 mg/l total nitrogen.

Applications include

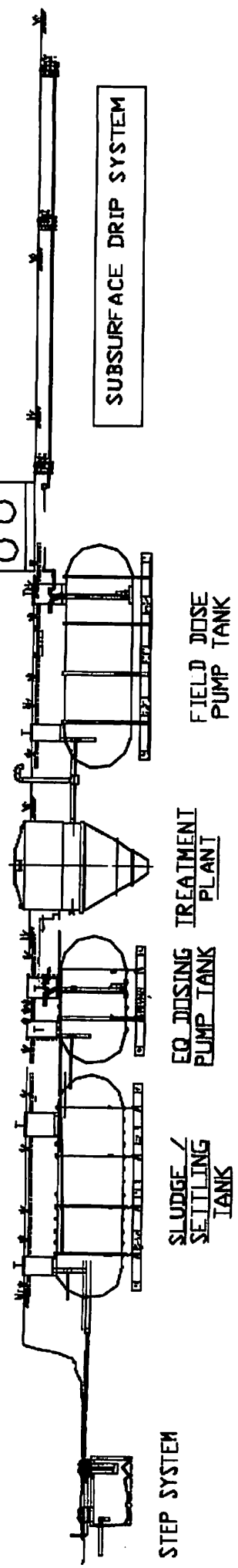
Residential, commercial, institutional, light industrial and municipal wastewater treatment.

*Under Ground Irrigation System
At The Acre Site*



PHASE 1
COLLECTION
SYSTEM

PLAN VIEW



ELEVATION