

Lynn Richardson

From: "Thomas Boyce" <thomas.boyce@ncmail.net>
To: <lynn.richardson@ncmail.net>
Sent: Friday, December 17, 2004 8:01 AM
Subject: Proposed vet clinic at 58 E. Cotton Rd

Lynn,

The site at which the proposed vet clinic is to be is currently being served by a septic system that was designed to serve greater than 3,000 gpd. The flow for the vet clinic will be much lower. I am currently waiting on the engineered plans for the silver recovery unit to serve the X-Ray machine. The existing system should accommodate the clinic with only changes to the tankage.

Thomas J. Boyce, R.S.
Chatham County Public Health Dept.



ENVIRONMENTAL ENGINEERING SERVICES

Water • Wastewater • Hydrology • Agricultural • Industrial • Civil

COPY

Mr. Thomas Boyce
c/o Chatham County Health Department
P.O. Box 130
Pittsboro, NC 27312

December 17, 2004

copy sent via fax to (919) 542-8288, original sent via USPS

Re: Engineering specifications related to the x-ray wash water treatment system at the Hope Crossing Animal Hospital in Chatham County. Owner is Mr. David Webster.

Dear Mr. Boyce,

This letter is a follow-up on our most recent conversation about the above referenced project. For reference, the location of the Hope Crossing Animal Hospital will be on SR 1712. I am told the address is 58 East Cotton Road, Pittsboro, N.C. Mr. David Webster has hired Environmental Engineering Services (EES) to develop the specifications for an x-ray film development wash water treatment system at the new veterinary hospital referenced above. These specifications will specifically relate to silver recovery from the x-ray film wash water prior to it being discharged into the on-site sewage treatment system.

As you know, the specifications for silver recovery from x-ray film development wash water must be developed and sealed by a registered professional engineer if said wash water will be discharged into an on-site sewage system. Part of my job will be to put the specifications for the silver recovery methodology into a bound package (along with drawings) and send them to Mr. Joseph Pearce, P.E. with the NC Department of Environment and Natural Resources (NCDENR), Division of Environmental Health (DEH) for review. Mr. Pearce will issue an approval of the plans once they meet his satisfaction.

At this time I plan to specify the new veterinary hospital use a gravity flow stacked canister system for silver recovery. These type systems are especially suitable for low volume x-ray film processing situations. They require a little manual effort at spent water transfer, but they work well and are economical for the client. Specifically I will be recommending the hospital use US International, Inc. brand units, Model ST-TT7 (Trickle Tank) and Model ST-MM7 (Silver Trap) for this job. When used according to the manufacturer's recommendations, these units remove silver concentrations in x-ray film wash water discharge to below 5 parts per million. There will also be specifications in the EES package that discuss precautions, equipment installation and use, fixer and developer storage, silver recovery component maintenance, etc.

I have been told the Chatham County Health Department (and others) are going to be working with Mr. Webster to evaluate all of the other parameters associated with the existing on-site sewage system to make sure the system is suitable for the new hospital. Someone other than EES will be specifying the components to the system such as hair trap (filter) specifications, tank size evaluations, drainfield layout and evaluations, daily loading estimates, etc.

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My plans are to have the specifications package mailed to Joe Pearce before December 25, 2004 - if I receive all of the information being supplied by others. I am sure Mr. Pearce will send you copies. At this time I do not anticipate any problems with the design since this approach to silver recovery has been successfully used at other veterinary hospitals. Please give me a call if you have questions.

Best Regards,



Larry F. Graham, P.E.
Environmental Engineering Services

cc: Mr. David Webster

SGI Technical Services
200 North Greensboro Street Suite B-13A
Carrboro, NC 27510ⁱⁱⁱ
Phone: (919) 942-7612
Fax: (919) 942-3647

28 April 2003

Jordan Lake Land Sales and Development
1625 Mt. Pisgah Road
Apex, NC 27502

Attn: Mr. Mike Hubbard

Reference: Stormwater Management Statement
Miles Group Inc. Lot - no. 2943
Chatham County, NC

Dear Mr. Hubbard:

The Jordan Lake Development Corp. is proposing upgrades to a ~2-acre tract located in Chatham County, NC and currently designated as parcel no. 2943 owned by the Miles Group. As described by the developer, the site consists of 2.001-acres in the WS-IV-PA zone in Chatham County.

The impermeable surface area that will be occupied by the proposed development (defined as land surface covered by buildings, parking lots and driveways) will consist of 34% of the total site area or 29,637-sf, according to the site sketch and information provided. Ms. Richardson and Mr. Megginson, representatives of the Chatham County Departments of Planning and Public Works, indicated that, because the proposed area of impermeable surface will exceed 6% of the total parcel size, the development must include a device to retain the first 1/2-in of stormwater runoff generated on the impermeable surfaces of this site.

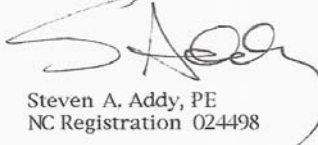
Assuming the aforementioned information to be correct and further assuming that the retention area will be empty at the time of a rainfall event, the developer will need to provide at least 1,235-cf of storage to accommodate 1/2-in of runoff generated on the impermeable surfaces. A topographic survey of this tract is not currently available. However, based upon a brief site visit and information available on a USGS topographic map, the developer should note the following.

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1. The location of the retention area must provide clearances from septic fields and repair areas in accordance with current version of NCAC Title 15A, Subchapter 18A, Sections 1901-1968.
2. The runoff leaving this tract is directed across tracts owned by others. The retention area should be located and designed in accordance with local ordinances and to minimize adverse effects upon downstream water quality or quantity.
3. During and after construction, the developer must act to prevent soil erosion and sediment migration in accordance with the regulations established in the NC Pollution and Sediment Control Act
4. The developer should note that a large volume of stormwater runoff flows across this tract which is generated upstream of the site. As such, this runoff should be diverted around any retention area that is not designed to accept the increased volume of runoff.
5. The retention area should hold the design volume of water until it is able to infiltrate. Stormwater generated on undeveloped parts of the site should be directed away from the retention zone. Emergency drains should be secured.

If there are any questions or comments or for additional information please do not hesitate to contact SGI Technical Services at (919) 942-7612.

Sincerely,
SGI Technical Services



Steven A. Addy, PE
NC Registration 024498

P. O. Box 87
80-D East Street
Pittsboro, N.C. 27312



Phones (919) 542-8259
(919) 542-8263

Fire Prevention & Inspections

December 14, 2004

Mr. David Webster
18 Garden Villa Drive
Pinehurst, NC 28374

Dear Mr. Webster:

I am writing to you in regards to our recent conversation concerning the proposed change of the present occupancy known as the TLC Learning Center located at 58 Cotton Road, Pittsboro, NC to a Veterinary Hospital/Clinic. Chief Mark Riggsbee, North Chatham Fire Department, has advised me that the change in the occupancy classification will have no known impact on the response services possibly required by the North Chatham Fire Department. The change in occupancy classification will also have little to no impact in regards to the applicable requirements of the North Carolina State Fire Prevention Code. The proposed Veterinary Hospital/Clinic will require a fire inspection to be performed prior to occupancy and every three (3) years thereafter.

Your proactive interest in meeting the requirements the Fire Code and providing a "more fire safe" business within Chatham County is greatly appreciated. If I can be of any further assistance, please contact me. Thank-You.

Sincerely,

Thomas K. Bender
Chatham County Fire Marshal