

From: Donna Wood [mailto:dwood@franklincountync.us]
Sent: Thursday, February 07, 2013 2:00 PM
To: Huisman, John
Cc: shammerbacher@franklincountync.us; Chris Hedrick
Subject: Falls Lake Existing Development Inventories

Mr. Huisman,

In response to the requirement of the Falls Lake Nutrient Management Strategy, 15A NCAC 02B .0278 Stormwater Management for Existing Development, Sub-Item (4)(d), Franklin County submits the following:

- Wastewater collection systems
 - A summary of existing onsite wastewater collections systems is attached as prepared by the Franklin County Environmental Health Department.
- Discharging sand filter systems, including availability of or potential for central sewer connection
 - Currently there are no plans to extend current County sewer systems beyond current commercial users located adjacent to US1 within the watershed. Due to limited development potential associated with the Falls Lake Development Rules, it is not financially feasible to extend current lines.
- Properly functioning & malfunctioning septic systems
 - A summary of existing onsite wastewater collections systems is attached as prepared by the Franklin County Environmental Health Department.
- Restoration opportunities in utility corridors
 - Existing County utilities are located within NCDOT right-of-ways whereas there are limited restoration opportunities unless NCDOT makes alterations to their existing row's.
- Fertilizer management plans for local government-owned lands
 - Currently, the only County owned land within the watershed is the a less than ½ acre site containing a water tower. The County has no plans to fertilize vegetation on this property.
- Structural stormwater practices, including intended purpose, condition, potential for greater nutrient control
 - Potential for greater nutrient control will come as a result of the recently adopted Falls Lake rules, to date no new developments have been constructed requiring structural stormwater devices.

- Wetlands and riparian buffers including potential for restoration opportunities
 - Horse Creek can be considered a potential restoration opportunity.

Please do not hesitate to contact our department if you need any additional information.

Sincerely,

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FRANKLIN COUNTY ENVIRONMENTAL HEALTH, FALLS LAKE WATERSHED SURVEY PROJECT RESULTS AND FINDINGS, 2012

Pursuant to **15A NCAC 02B .0279**, the Franklin County Health Department, Environmental Health Section, performed a survey of a sample of its residents in the Falls Watershed acreage. The following information is some background on Franklin County's Falls Watershed:

- Franklin County has approximately 3,062 acres in the Falls Lake Watershed
- According to county tax records, there are 753 homes in said watershed
- Franklin County sent out questionnaires to approximately 20% of the residences to be surveyed
- Franklin County received approximately 40% response, thus constituting an 8% rate of survey
- Of the questionnaires sent out, 21 were returned as undeliverable
- Of the questionnaires sent out, 8 residents called in and refused to be surveyed

The questionnaires were mailed to the residents with a self addressed stamped envelope on December 5, 6, and 7, 2012, with a brief letter explaining the intent of the survey. The letter asked that the questionnaire be returned to Franklin County Health Department no later than December 14, 2012. Any correspondence received regarding the survey, received after this date, was not included in the survey. The following are the highlights from Franklin County's Falls Lake Watershed Survey, 2012:

- Of the systems surveyed, Franklin County was able to locate permits for 17 of the systems for a 28% rate of permit retrieval. Of these, the only encroachment was a foundation drain.
- Of the remaining 72% surveyed for which a permit could not be located, there was 1 encroachment (swimming pool and carport on septic) noted by field observation. However, the tank lid cover needed to be replaced (cracked) on 2 systems.
- Of the 61 systems surveyed, 7 were found to be pump to pressure manifolds for an 11% rate
- Of the residents surveyed, the 17 that permits could be located for, 9 indicated they had their tank pumped within the last 3 yrs, for a 53% rate. Of the 44 for which a permit could not be located, 15 indicated they had their tank pumped, ranging from 1998 to March of 2012, for a 34 % rate, with a combined "tank pumped rate of all residents" of 39%, with 3 residents indicating that they have theirs pumped at frequencies ranging from every 4-5 years.
- Of the systems surveyed, for the ones permits could be retrieved, the average age of the system was 6.7 years, with the oldest being 12 years, and the youngest being 1.5 years, with a mode of 6 years. Of the systems surveyed for which a permit could not be retrieved, the average age was 11.7 years, with the oldest being 38 years, and the youngest being 1.5 years, with a mode of 10 years. Giving an all around average of 10.14 years, with a mode of 10 years.
- Of the residents surveyed, 56 were in subdivisions for a 92% rate.

The Franklin County Falls Lake Watershed survey was conducted by Franklin County Health Department on December 20, 21, and 27, 2012. Franklin County Health Department, Environmental Health Section

consists of three (3) Environmental Health Specialists; Jeffrey Wood, Shad Leonard, and Chris Hedrick. Of these, Shad Leonard and Chris Hedrick were involved in the field survey. Mr. Wood had to continue to conduct regular activities to allow the other Environmental Health Specialist to perform the field surveys.

During the Franklin County Falls Lake Watershed survey of 61 homes, there were no malfunctions of any septic systems noted. There were only a total of 3 “deficiencies” noted (2 cracked lids and 1 foundation drain encroachment). All systems were able to be identified and traced in the field during survey visits.

Respectfully Submitted,

Chris Hedrick, REHS
Franklin County Health Department