

TOWN OF HILLSBOROUGH
ENGINEERING STATUS REPORT

MARCH 2011

Kenneth P. Keel, PE

919-732-1270 ext 75, kenny.keel@hillsboroughnc.org

PROJECT	BUDGET	STATUS
WWTP Discharge Compliance	-	We were compliant with our discharge permit limits in January. Our sludge management program is in good condition.
WWTP Expansion Design & Permitting	\$ 1,025,000	Design plans and specifications are being reviewed by NC Construction Grants & Loans and other permitting agencies. The project is proceeding on schedule. We are preapproved for up to a \$17.5M low interest loan. Plan approval should be complete by May 2011, and construction contracts in place by September 2011. The project should be complete by March 2014. This aggressive schedule is needed, due to the plant reaching its maximum capacity during several recent rain events, and due to new scheduling requirements in the SRF program.
Sewer Spill Summary	-	The Town has had no reportable sewage spills in 2011. There have been no bypass events at the WWTP in 2011. We had 2 spills and bypass events in 2010.
West Fork of the Eno Reservoir	-	The reservoir is about 11 inches below full (97%), with approximately 365 days of supply remaining. We had about 2.0 inches of rain in February.
WFER - Completion of Wetlands and related permit requirements	\$ 900,000	Construction on the water quality impoundments modifications is continuing. Reconfiguration and planting on the Hatley site in Persimmon County will begin this Spring. Some additional area will be required, which could cost up to \$200K, but I am working on some different options that could greatly reduce the cost. All of this work is required to bring us into compliance with our US Army Corps of Engineers (USACE) permit. The USACE has suspended our construction permit until this work is completed, but the suspension should not interfere with Phase 2 construction as long as we complete the current work. We also still have the potential to be fined by USACE for non-compliance due to delays thus far, but efforts to comply now should help greatly to minimize fines, if any are assessed.
Total Trihalomethanes (TTHM) Compliance	-	The 1st Quarter 2011 testing was performed in mid-February. These results were identical to the 2010 1st Quarter, which kept our official 1st Quarter average to 30 parts per billion, which makes our current running annual average remain at 43 ppb (annual average limit is 80 ppb). We previously had 8 consecutive quarters with a drop in our annual average, but to remain consistent is notable since we have changed our operations with use of the large clearwell. The Town remains compliant with TTHM levels. 2nd Quarter 2011 testing will be in mid-May.
Water Restrictions	-	No withdrawal restrictions are in effect for the Town, and no restrictions for Town customers. Lake Orange is FULL.
Water System Flushing	-	The Spring water system flushing began on 2/28, and will run through the end of March. We are using chlorine w/o ammonia in March.
"Unaccounted-for" Water	-	Miscellaneous repairs have been proceeding.
Miscellaneous Water Projects	-	We had a major failure at Mayo Booster Pump Station on Feb. 27th due to an electrical feed problem from Duke Power, but were able to make changes to prevent any customer outage. No major water projects were scheduled during February.
GIS Development	\$ 50,000	Work continues to fine-tune the data to ensure accuracy of buried features that could not be uncovered for locating. Work will continue in future FYs to keep the GIS up-to-date and tweak the data. Most repair needs that were uncovered have been addressed.
Sewer Rehabilitation & Repairs	\$ 450,000	Approximately 2,200 feet of sewers were relined successfully by a contractor on Dixie Avenue, Tryon Street (at Churton), and Exchange Park Lane. Additional sewers are being identified and scheduled for repairs and/or relining. Additional sewer services in North Fairview will be replaced in the Spring.
Elizabeth Brady PS Upgrade Design	\$ 80,000	Preliminary plans are complete and being reviewed by staff. A State Revolving Fund loan for construction (approx. \$700K) will be reconsidered in March. If we don't receive funding in March, we will need to consider other funding sources (lease-purchase, etc.). This will be a new construction project in the FY12 budget, due to the inability to have it included in the WWTP project loan.
Orange Grove Road Water Improvements	\$ 550,000	Design work is proceeding for the replacement of the Mayo Booster Pump Station and Orange Grove Road water line. Construction will likely begin in late Summer or Fall 2011, with completion by August 2012.