PROGRESS REPORT

RIVIERA BEACH SPECIAL UTILITY DISTRICT

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Drinking Water Quality

During the past month since the last Progress Report all of the District's 40 city-wide drinking water samples continue to meet or significantly exceed water quality standards without exception. The District staff has developed a successful flushing regime and is pursuing it with diligence. They are continuing to learn and gain experience in managing the distribution system. The District water treatment operators are also learning to optimize the chemistry at the Water Treatment Plant which is another major factor in our improved compliance. While the improved flushing plan and water treatment operations are improving compliance, note that the work involved is highly staff intensive. Ongoing and planned improvements to the water treatment plant as well as to storage and repumping facilities at Ave U Booster Station will reduce the manpower requirement and improve water quality consistency when these projects are complete.

Wellfield Rehabilitation

As a result of the District's on-going well rehabilitation program, progress has been made in bringing more wells into full service. Of the District's 27 drinking water wells, 16 are now fully operational. Seven wells are functional but operating at reduced capacity and are in line to be rehabilitated. Five wells remain out of service and will be repaired. The District has two well contractors working to restore full service to the entire wellfield. Funds for this work are included within the District's approved capital plan.

Work at the Water Treatment Plant

The project to return the #3 Treatment Unit back to temporary service began this month and is currently on-going. Globaltech Design Builders have presented their plan to the Palm Beach County Health Department (PBCHD) and it has been approved. Construction work has begun with ordering of necessary parts and materials as well as project mobilization, which will be completed by the end of February. Project completion date is projected to be at the end of April. This is an aggressive schedule but one that Globaltech fully expects to achieve. Once complete, Treatment Unit #3 will become operational and this will improve both the color in the finished water and the ability of the plant operators to control the finished water quality. Note that the permanent repair of Treatment Unit #3 cannot be achieved until the planned structural repairs are made to the North Chemical Tower.

The Chem-Scan Ammonia and Chloramine controller has been received and will be installed by Florida Design Company and calibrated by the manufacturer within the next few weeks. This improvement will also greatly assist the water treatment plant operators in controlling finished water quality.

Work at Avenue U Pumping Station and Tank

The Utility District staff is currently evaluating the most cost effective and technically efficient way in which to improve water quality leaving the tank and serving the far Western reaches of the distribution system, including Gramercy Park. Current thinking is that the addition of a mixer in the tank along with a phased approach to replacing the current, ineffective chloramine boosting system will best serve the District. A decision on how to move forward quickly with this improvement will be made shortly and brought to the Board for procurement. Improving the ability to boost chloramine residual at Ave U is one of the most critical improvements needed for permanent and cost effective compliance with the PBCHD consent order.

Consent Order Compliance

1. FDEP Consent Order WP-15-0459 – The District is in full compliance with the Consent Order at this time. All deadlines to date have been met. As previously reported, future requirements require the District to adhere to its Capital Plan in conducting system improvements on Lift Stations and pipeline renewal. The rehabilitation of Lift Stations 10 and 50 is a project which the District is committed to complete for Consent Order compliance. The FDEP is being kept apprised of the District's issues with the contractor of this project which, of course, are causing completion delay. FDEP understands the issue and is not concerned about the delay because the Agency sees that the District is moving quickly to resolve the problem and restart construction as soon as possible.
2. PBCHD Consent Order WP-020-16 – The District is in full compliance with the Consent Order at this time. All deadlines to date have been met.
    a. Required monitoring and flushing is being conducted, as is the finalization of a workable flushing plan to be submitted to the PBCHD.
    b. The contract with the prequalified firm to assist staff in the repair and replacement of pumps, motors and other electrical and mechanical equipment is now in place. These repairs are required by the Consent Order based on the US Water Assessment Report.
    c. Project construction of the In-Kind Services Project for this Consent Order was completed on January 15, 2107, meeting the required deadline. This project involved the installation of 15 dedicated sampling stations within the District's system of 40 sampling locations, which are now being utilized by staff. These dedicated stations are placed in areas where we currently rely on the hose bib of residences or commercial buildings that are subject to contamination from outside influence rather than from the drinking water.

Future Planned Work

1. Finalize and deliver to the Utility District Board a plan for the most efficient, quickly implemented and cost effective solution to the chloramine residual issue at Ave U Pump Station and Storage Tank. Solving this problem will greatly relieve the manpower and overtime costs of the current flushing program.
2. Continuation of water quality monitoring, flushing and reporting.
3. Continued work on well repair and rehabilitation.
4. Issuance of an engineering task to finalize the structural repair of the North Chemical Building.
5. Selection of one or more General Consulting Engineers through the CCNA process to assist the District in the planning, design and implementation of required projects.
6. Continue to work on priority Issues identified in the Five Year Improvement Plan and to keep the Board informed of obstacles and of progress.
7. Develop a training program and hire a trainer for the Water Treatment Plant Operators to assist them in consistent and technically appropriate operation and to help them develop standard protocols.