

**PROGRESS REPORT**  
**RIVIERA BEACH UTILITY DISTRICT**

**November 21, 2016**

**Bevin A. Beaudet, P.E., LLC**

**Lift Stations 10 and 50 Update**

Now that the Board has terminated the contract with Close Construction, the operation of Lift Station 10, which is in by-pass mode, is the responsibility of the District until a new contractor is hired. There have been numerous complaints from nearby citizens on odor, noise and insect problems. The District is in the process of taking the following action to mitigate these problems:

1. The main by-pass pump installed by Close is directly powered by FPL, however, the pump is not properly designed. It causes excessive noise and vibration, especially noticeable at night. C-Solutions Engineers are currently working on replacing this pump with a more appropriate design which will be much quieter. The emergency stand-by pump is diesel engine powered and although it is rarely operated, it is very noisy. This pump is being replaced with a new pump enclosed within a specially designed sound reducing enclosure.
2. The District is purchasing odor mitigating misters which use a scented compound that masks and chemically eliminates much of the sewage odor.
3. City staff are coordinating with FDEP and the City's contracted exterminator to apply appropriate and additional pesticides to help reduce insect pest problems at the site.

**Drinking Water Quality**

As was reported to the Board last month, the five sample points in the Western portions of the system did not consistently achieve the disinfection residual standard required by the Health Department Consent Order. The violations primarily occurred at two or three sampling points in Gramercy Park over the weekends. Water quality continues to be within Federal and State standards throughout the rest of the system. The conditions in Gramercy Park do not pose a health hazard because a residual has always been present at all sample points and post-sampling flushing has been able to restore the residuals above required levels.

City staff continues work to develop an improved flushing plan in Gramercy Park, and within the past several weeks has been achieving satisfactory results. The improved plan consists of increased flushing on Friday before the weekend and flushing during the weekend itself. While this improved flushing plan is working as desired, it is more highly staff intensive. Planned improvements to water treatment plant and storage should reduce the need for such intensive flushing in the near future.

## **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. Future requirements require the District to adhere to its Capital Plan in conducting system improvements on Lift Stations and pipeline renewal. Progress on Lift Stations 10 and 50 must also be continued.
2. PBCHD Consent Order WP-020-16 – Except for the disinfectant residual issues described above, 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. Repair and renovation work on the District’s wells is successfully underway. Currently four wells have been returned to service and four others are being worked on both in-house and by two well contractors. Work on all wells will continue until all wells are fully operational. Funds for this well rehabilitation project are included within the District’s approved capital plan.
  - c. The District is finalizing the plan and schedule, along with identified funding, to complete all the work identified in US Water’s recommendations.
  - d. The In-Kind Services Project for this Consent Order involves the installation of 15 dedicated sampling stations within the District’s system of 40 sampling locations. These dedicated stations will be placed in areas where we currently rely on hose bib of residences or commercial buildings that are subject to contamination from outside influence rather than from the drinking water. The In-Kind Services construction contract is on the current agenda for board approval

## **Priority Issues**

### **Future Planned Work**

1. Completion of PBCHD In-Kind Services project.
2. Continuation of water quality monitoring, flushing and reporting.
3. Continued work on well repair and rehabilitation.
4. Selection of a maintenance contractor to assist the District in repairing or replacing equipment identified in the US Water report to the PBCHD.
5. Submission of a plan, schedule and identification of financing for improvements specified in the US Water report to the PBCHD.
6. Selection of a second General Consulting Engineer through the CCNA process.
7. Continue to work on Priority Issues and keep the board informed of obstacles and of progress.
8. Hiring of staff to fill key vacancies in both management and rank and file positions.

### **Details of Tasks Needed to Be Completed**

An updated summary of Long Term, Short Term and Immediate Term actions required to rehabilitate the Utility District's water and wastewater system are attached below. Funding for each of these tasks are included in the District's approved 5-year Capital Plan or the FY 2016-17 Operating Budget. Several of the items have been initiated and several are on the November 21<sup>st</sup> Agenda. Good and consistent progress is being made on the challenging task of bringing the Riviera Beach Utility District's system up to a high standard.