

Loxahatchee River District

Water Reclamation | Environmental Education | River Restoration

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D. Albrey Arrington, Ph.D., Executive Director

MEMORANDUM

TO: Albrey Arrington, Executive Director

FROM: Tom Vaughn, Director of Operations

DATE: October 5, 2015

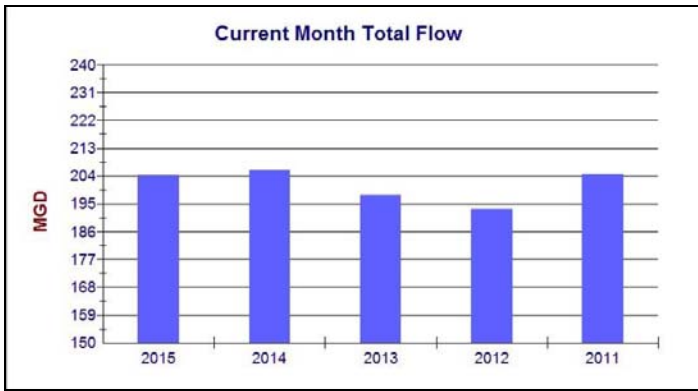
SUBJECT: Operations Department Monthly
Report for September 2015

Treatment Plant Division

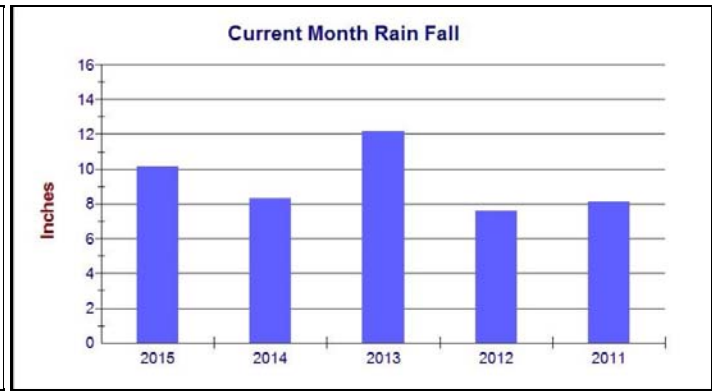
A chemical feed system was installed Monday the 28th on the Waste sludge line to the Sludge holding tank. The chemical being added will oxidize most of the sulfides and other odor causing compounds in the tank and reduce the odor of the sludge. The system is set up on a trial basis with testing to determine its effectiveness in reducing odor.



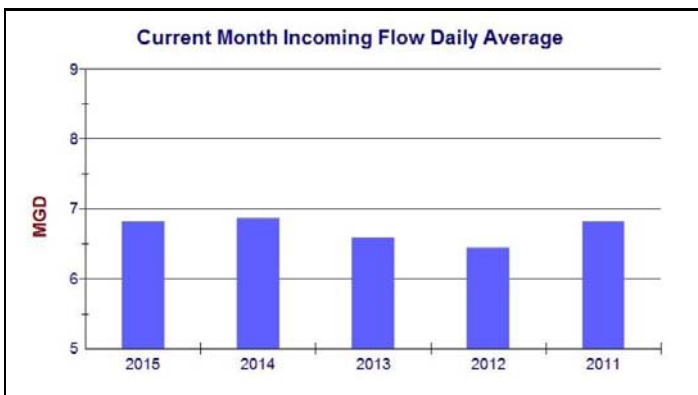
We have had another great month of no Permit exceedances.



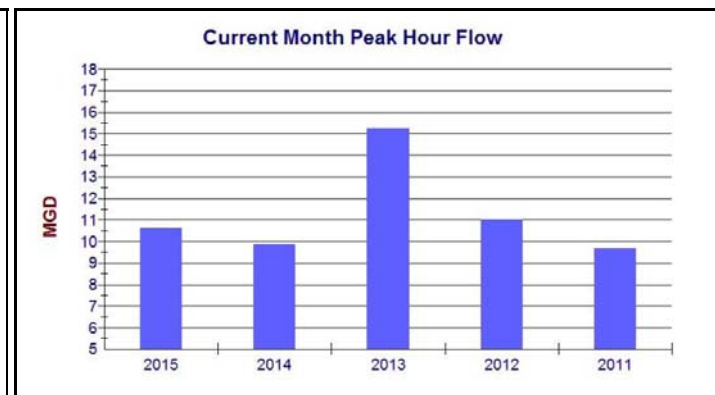
The plant total flow for the month of September was 204.31 million gallons.



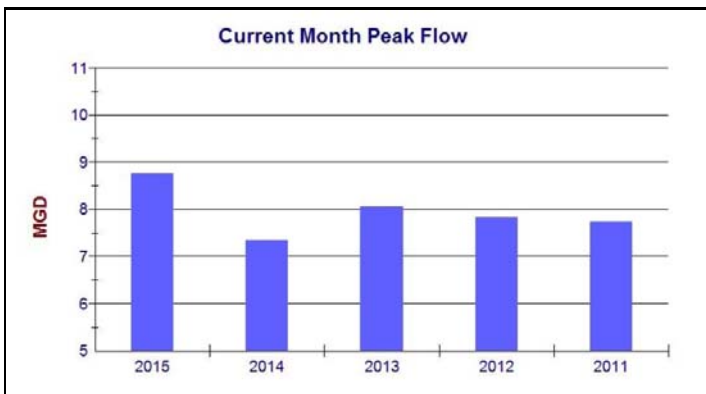
10.15 inches of rainfall were recorded at the plant site during the month of September.



The treatment plant incoming flow for the month of September averaged 6.81 MGD compared to 6.86 MGD one year ago for the same month.

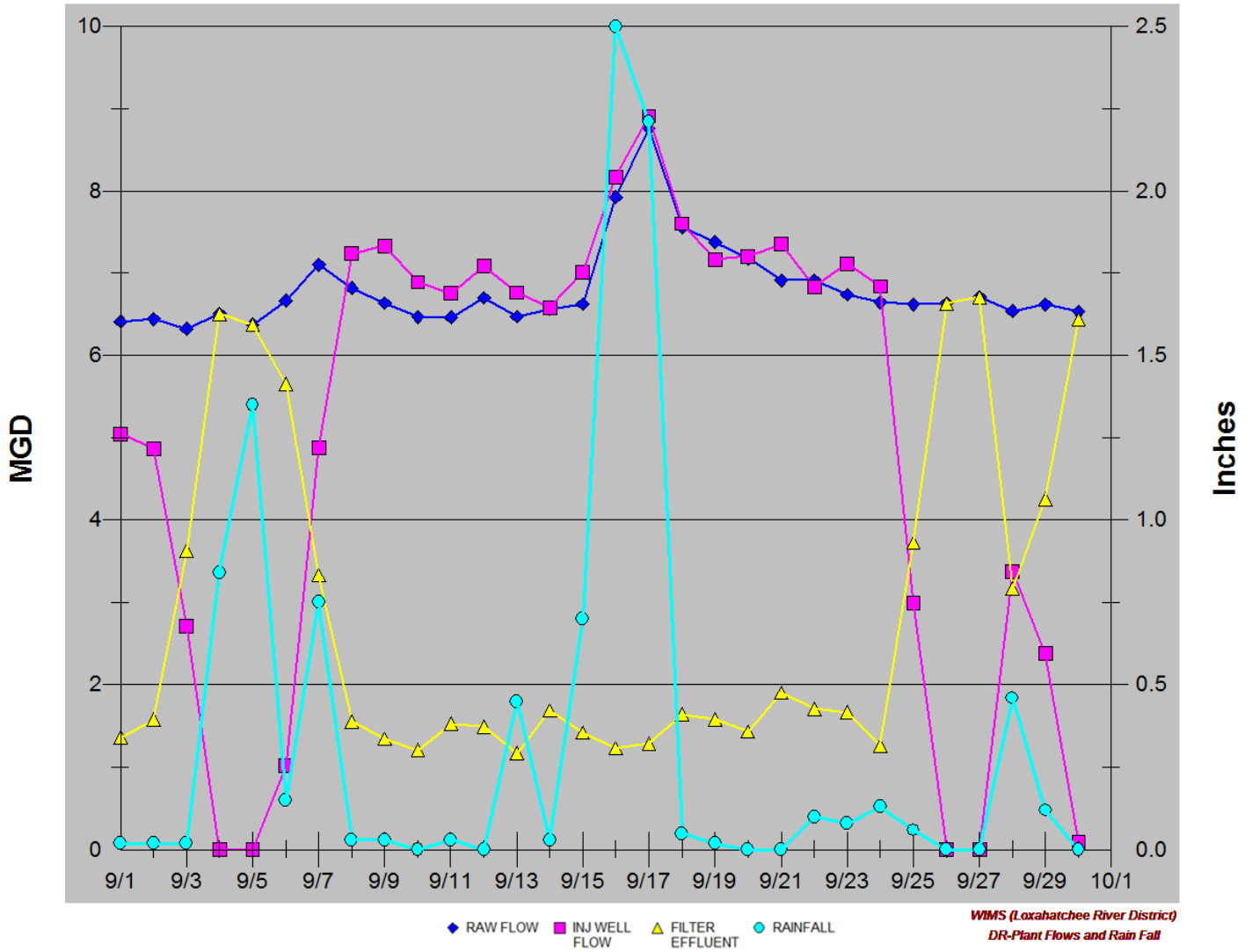


The peak hourly flow rate in September was 10.59 MGD.



The greatest single day average flow in September was 8.76 MGD.

The plant received 204.31 MG of influent flow of which 84.48 million gallons were sent to the IQ storage system where they were dispersed as needed to the various golf courses and the Abacoa development sites. Due to wet weather conditions and 10.15 inches of rain during the month, 150.25 million gallons of blended effluent was diverted to the Injection Well. Overall, 41.35% of incoming flows was recycled for IQ use and the plant delivered 71.58 million gallons of IQ water to the Reuse customers.



For the year 2015, the plant recycled 69.68% of all incoming flow and the total amount of IQ water delivered to reuse customers stands at 1,371.30 million gallons.

All required monthly reporting has been submitted on time.

Safety / Compliance

DEP. The DEP held four separate certification testing sessions during the month of September.

The morning and afternoon sessions accommodated approximately one hundred candidates from all around the south east region.

There are no testing dates scheduled for November or December, however January will include three full days of morning and afternoon testing sessions.



SAFETY TRAINING. Safety training for the month of September included Electrical Safety Awareness.

Many of the District's employees come in contact with electrical hazards throughout their work day. Each department will see different variations of electrical hazards in their specific duties. All of these electrical hazards must be treated with respect and attentiveness to complete each task safely.

Injuries from Electrical Shock

- Electrocution
- Injuries
- Secondary injuries



FIT-TEST. The annual Respiratory Fit-Testing was completed on schedule, for all employees who may be required to wear a full face respirator during their workday. The OSHA required Fit-Testing program includes a medical evaluation to ensure an employee is healthy enough to wear a full face respirator. A negative pressure Fit-Test machine is then used to quantitatively evaluate the correct size of mask for each individual being tested. This test allows for an accurate assessment of each employees health and correct equipment size to determine the best respiratory protection possible on an annual basis.



FIRE SAFETY. The annual Fire Extinguisher inspections have been completed with no violations or inadequacies to report. All fire extinguishers were found to be in good working order and ready to do their job at a moment's notice.



CONFINED SPACE ENTRY. Engineering received a new confined space entry tripod, to assist them with their infrastructure inspections.

This new unit is made of lightweight aluminum and is much more maneuverable than the existing units currently in use by district crews.

The addition of this specific piece of equipment for our inspection crews, will allow them to continue to make safe entries while reducing the set up time required.

Collections and Transmissions Division



LEFT. The District collection system residential service lateral and gravity mainline refurbishment was achieved. The contractor did not need to perform excavation lining technology. This work was the second phase after a system video inspection with recommended methods for repair within the designated system that was approved by the District Engineer at “Riverside Improvement Area” in the Town of Jupiter’s jurisdiction.

RIGHT. The new field service crane truck (unit 29) was delivered per the Budget 2014-2015 Operations Department.

The new vehicle will be processed in for all proper paperwork, State tags, and the assigned crew for the vehicle will start to switch over to the new unit.



LEFT. At the District field Master Station on the ZABOCS 6000 (biological odor control system), maintenance and replacement of unit media was performed by the vendor under the Budgetary Lease agreement contract.

BELOW. In the reporting month, three new RTU’s (remote telemetry units) were installed in field Collection/Transmission system per Budget year 2014-2015. The two new sites to the system are Lift Station # 83 (Harbourside Place) and #87 (Jupiter Ocean and Racquet Club) and will be under continuous monitoring to base SCADA. Station #25’s (Jupiter Hospital) existing RTU’s 21 year service life gave cause for the replacement/upgrade to the new standard monitoring system equipment.



RIGHT. District crew members prepared the Master pump station for a scheduled cleaning of the station's wet well.

The task was a permitted confined space entry and work was performed by field District Operation's crew members. The Field Foreman performed the confined space entry SOP (special operating procedures) for the entry and monitoring during the work's duration.



BELOW. For the reporting month, two (2) new low pressure systems came online in the low pressure pump station system. The District Vac Con Crew cleaned the following Lift Stations in September 2015; # 105, 160, 72, 83, 53, 7, 264, 226, 220, 110, and 236.

The Vac Con Crew worked with the Engineering Department to assist with the "one-year" Bond inspection of the gravity system for the Barcelona Development, which flows into lift station #19; Total: 18 manholes and 3,414 feet of gravity main.

During the reporting month, there were no major system or equipment failures in the Collection/Transmission systems, that caused emergency or systems to not operate normally.



Maintenance

BELOW. The District had the roof of the Dewatering building replaced.



The machinery located inside the building was protected and in operation during the renovation of the building's roof.



Tidbits from Tom

September, 2015 – Labor Day



Labor Day is an annual celebration of workers and their achievements that originated during American labor history's most bleak era. In the late 1800's, at the height of the Industrial Revolution, the average American worked 12-hour days and seven-day weeks in order to produce an income for basic living necessities. The "workingmen's holiday" is celebrated on the first Monday of September and has been celebrated since 1894.

Perspective: Time

Imagine there is a bank that credits your account each morning with \$86,400. It carries over no balance from day to day. Every evening the bank deletes whatever part of the balance you failed to use during the day. What would you do? Draw out every cent, of course!

Each of us has such a bank. It's called TIME. Every morning, it credits you with 86,400 seconds. Every night it writes off, as lost, whatever of this you have failed to invest to good purpose. It carries over no balance. It allows no overdraft. Each day it opens a new account for you. Each night it burns the remains of the day. If you fail to use the day's deposits, the loss is yours. There is no going back. There is no drawing against the "tomorrow." You must live in the present on today's deposits. Invest it so as to get from it the utmost in health, happiness, and success!

See ya' at the Top – (That's near Cheese Station "N")

**Tom Vaughn
Director of Operations**