

MEMORANDUM

TO: Albrey Arrington, Ph.D. / Loxahatchee River District

COPY: Clint Yerkes / Loxahatchee River District
Tom Vaughn / Loxahatchee River District
John Koroshec / Hazen and Sawyer
Felipe Martinez / Hazen and Sawyer

FROM: Albert Muniz / Hazen and Sawyer

DATE: November 10, 2015

FILE: 42009-012.3.1.3

SUBJECT: Loxahatchee River District
Engineer's Monthly Status Report through October 2015

The following is a summary of work performed by Hazen and Sawyer, P.C. (Hazen) on Loxahatchee River District (LRD) projects through the above referenced date.

General Operational Assistance – This project involves providing LRD with engineering assistance related to wastewater operations.

Monthly Progress

- LRD staff and Hazen personnel continue to communicate to discuss plant operations on an as needed basis. The wastewater treatment process continues to perform well
- Hazen staff has provided information for sampling as requested

Deep Bed Sand Filters – Final Design and Construction Management Services – The existing traveling bridge filters and filter structure have served the LRD wastewater treatment facility for over 20 years and are in need of significant rehabilitation and repair. In lieu of repair and replacement, it is the LRD staff's desire to replace the filters with deep bed sand filters. Deep bed filters offer additional benefits over traveling bridge filters including de-nitrification capabilities as well as proven performance during plant upset conditions. A Preliminary Design Report for construction of the deep bed filters was prepared and submitted to the LRD in March 2014. This PDR provides a conceptual design and layout of the filtration system and concluded the first part of the overall design phase. The next phase will be final design. This portion of the project was initiated with approval of the design and construction phase services task order by the Board during the April 2014 Board Meeting. The approved task order includes final design and construction phase services.

Monthly Progress

- Palm Beach County Planning, Zoning and Building Dept. Zoning Division site plan revision approval was obtained on May 15, 2015
- Building Department permit application packages were submitted to Palm Beach County on June 4, 2015. Applicable comments were incorporated into the contract documents prior to bid advertising
- Hazen revised the front end documents to incorporate Board attorney comments
- The project was advertised on August 16, 2015
- A mandatory pre-bid conference was held on September 29, 2015
- Addendum No. 1 was issued to all planholders on October 8, 2015
- Addendum No. 2 was issued to all planholders on October 21, 2015
- Bid opening occurred on October 29, 2015
- A letter recommending award to the lowest cost, qualified, responsive and responsible bidder was prepared and submitted to LRD on November 4, 2015

Mechanical Integrity Testing for 2016 – Hazen was authorized to begin permitting for the 2016 standard 5-year Mechanical Integrity Test (MIT) as required by the injection well operating permit. Testing must be completed by May 31, 2016. Below is a summary of activities performed to date:

- Hazen prepared a draft plan for internal review and review by LRD staff
- Review of the draft plan will be completed by November 13, 2015. Comments will be incorporated and the plan will be submitted to FDEP on or before December 2, 2015
- Preparation of contract documents was initiated. Anticipate submittal of draft contract documents for LRD review by mid-December

As always, please feel free to contact us should you have any questions or need to discuss the progress of any of the above projects in more detail.



*Loxahatchee River Environmental Control District
Monthly Status Report
November 10, 2015*

Submitted To: Clinton Yerkes, Deputy Director

The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through November 10, 2015.

Little Oaks / River Oaks Neighborhood Sewering

The Construction Contract was awarded to Foster Marine Contractors in the amount of \$1,548,615. NTP was issued to the Contractor on 7-20-15. The Substantial Completion date is 2-10-16 and the final completion date is 4-15-16. MC attended the monthly meeting, reviewed shop drawings, responded to RFI's, coordinated construction activities with the District, Contractor and PBC, and provided resident inspection services.

Alternate A1A Subaqueous Forcemain Study

A kick-off meeting was held with the District on 9-18-15. MC completed preparing the Base Drawings; conducted a field reconnaissance of the pipeline corridor on both sides of the bridge; completed photographic log walk-thru of the project; and completed Utility coordination. The District provided MC with the requested downstream pressure readings on 10-23-15. MC will begin the hydraulic modeling task now that we have this information.

Master Lift Station #1 Rehabilitation

MC coordinated with the Meter Subcontractor to remove the temporary flow meter on the 30-inch aerial crossing at Jupiter Creek. MC continued preliminary evaluation of the pump station operations data provided by the District, as well as the Population Analysis.

Respectfully Submitted by:

MATHEWS CONSULTING, INC.

A handwritten signature in black ink, appearing to read "Rene L. Mathews".

Rene L. Mathews, P.E.
President



HOLTZ CONSULTING ENGINEERS, INC.
50 South U.S. Highway One, Suite 206, Jupiter, FL 33477 (561) 575 2005

MEMORANDUM

To: Clint Yerkes, Deputy Director, Loxahatchee River Environmental Control District

From: Christine Miranda, PE
Holtz Consulting Engineers, Inc.

Date: November 12, 2015

Subject: **Loxahatchee River Environmental Control District Monthly Status Report**

The following is a summary of work performed by Holtz Consulting Engineers, Inc. (HCE) on Loxahatchee River District projects through November 12, 2015:

Rolling Green Road Low Pressure Force Main

- All pipeline and services have been installed.
- The final pressure test for the pipeline was performed on November 12, 2015.
- Record drawings for the project are anticipated to be received next week. Upon receipt, a certification of completion will be submitted to the Palm Beach County Health Department to place the system into service.

Loxahatchee River Road Reclaimed Water Main Replacement

- The Palm Beach County Engineering Department has issued the Right-of-Way Permit.
- We are currently working with the Florida Department of Environmental Protection on the submerged land lease.
- Upon notice from the Florida Department of Environmental Protection that they have received everything needed with respect to the environmental resource permit and submerged land lease, the final engineering plans, contract documents and technical specifications, and engineer's estimate of probable construction cost will be transmitted to staff.

Jupiter Plantation Lift Station #13 Force Main Replacement

- The 90% design submittal was submitted to staff on October 29, 2015.
- We have received comments on the contract documents and engineering plans and are currently making the final revisions.
- Permit applications to the applicable agencies are currently being submitted.

Maplewood Lift Station #21 Force Main Extension

- The 90% design submittal was submitted to staff on November 9, 2015.