

## MEMORANDUM

**TO:** Albrej 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:** January 13, 2016

**FILE:** 42009-012.3.1.3

**SUBJECT:** Loxahatchee River District  
Engineer's Monthly Status Report through December 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 continues to provide assistance on an as needed basis

**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*

- 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 (i.e., Kirlin Florida, Inc.) was prepared and submitted to LRD on November 4, 2015
- The Board approved the Kirlin contract at the November 19, 2015 Board Meeting
- Following Board approval, a Notice of Award letter and four sets of contract documents for execution of the contract was delivered to Kirlin on November 23, 2015
- Kirlin delivered signed contracts to the District on December 4, 2015, and subsequently reviewed by the District attorney prior to execution by the District
- A pre-construction meeting is planned for January 13, 2016. Kirlin will be provided their copy of the executed contract at the pre-construction meeting. It is anticipated that a Notice to Proceed will be issued to Kirlin on January 18, 2016.

**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 submitted the MIT plan to FDEP on November 11, 2015
- FDEP reviewed the plan and approved it on November 13, 2015
- Hazen has finalized the technical specifications and will coordinate with LRD staff to determine if the project will be bid or piggy-backed with a publicly bid similar project in January 2016
- It is anticipated that the MIT will be conducted during the first quarter of 2016

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.



**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:** January 14, 2015  
**Subject:** **Loxahatchee River Environmental Control District Monthly Status Report**

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The following is a summary of work performed by Holtz Consulting Engineers, Inc. (HCE) on Loxahatchee River District projects through January 14, 2016:

**Rolling Green Road Low Pressure Force Main**

- The Maintenance Bond for the project was received on January 13, 2016.
- The Contractor is in the process of moving a terminal flushing port that was found to be installed on private property.

**Loxahatchee River Road Reclaimed Water Main Replacement**

- We are currently working with the Florida Department of Environmental Protection on the submerged land lease. This is the only outstanding permitting issue.
- Upon receipt of the submerged land lease the final plans and specifications will be submitted and the project will be advertised for bidding.

**Jupiter Plantation Lift Station #13 Force Main Replacement**

- Permit applications to the applicable agencies have been submitted. Both permits from the Palm Beach County Health Department and Palm Beach County Engineering have been issued.
- The 100% design submittal will be submitted to LRD staff during the week of January 18, 2016.

**Maplewood Lift Station #21 Force Main Extension**

- Permit applications to the applicable agencies have been submitted. The permit from the Palm Beach County Health Department has been issued.
- Upon receipt of issuance of the permit from Palm Beach County Engineering, the 100% design submittal will be submitted and the project will be advertised for bidding.

**Turtle Creek Phase I**

- The preliminary design analysis technical memorandum for Subsystems 1 through 4 was submitted to LRD staff for review on January 7, 2015.
- The draft survey for Subsystem 5 has been completed and was received on January 6, 2015.
- The geotechnical report for Subsystem 5 was completed and transmitted to HCE on January 5, 2015.
- The 30% design submittal and cost estimate for Subsystem 5 will be submitted to staff by February 4, 2016.

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT  
ENGINEER'S MONTHLY STATUS REPORT THRU DECEMBER 31, 2015**

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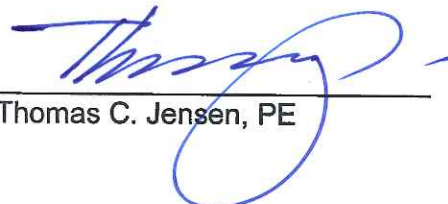
**JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION**

- Development of conformed documents for incorporation of contractor executed documents.
- Discussions with PBC Roadway on the off-site turn lane comments and addressing of those comments.
- Discussions with the contractor, Giannetti Contracting Corp. regarding the following;
  - Scheduling of a pre-pre construction meeting to occur in January 2016, ahead of the official pre-construction meeting being planned in March 2016.
  - Preliminary scheduling/sequencing of work.
- Scheduling of an on-site meeting in January 2016 to commence with residential irrigation well testing.

ARCADIS, Inc.

  
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William D. Reese, PE

Kimley-Horn and Associates, Inc.

  
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Thomas C. Jensen, PE



*Loxahatchee River Environmental Control District  
Monthly Status Report  
January 13, 2016*

*Submitted To: Clinton Yerkes, Deputy Director*

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The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through January 13, 2016.

**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 continued the hydraulic modeling task now that we have this information. MC continued developing the Draft Preliminary Design Report. The Draft Temporary /Emergency Bypass Pumping Plan were submitted to the District for review on 1-13-16.

**Master Lift Station #1 Rehabilitation**

MC completed of the Preliminary Design Criteria to be incorporated into the Preliminary Design Report. MC prepared a Flow Analysis Technical Memorandum and submitted it to the District on January 5, 2016 for review & comment.

Respectfully Submitted by:

**MATHEWS CONSULTING, INC.**

A handwritten signature in black ink that reads "Rene L. Mathews".

Rene L. Mathews, P.E.  
President