

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: May 18, 2016

FILE: 42009-025.3.1.3

SUBJECT: Loxahatchee River District
Engineer's Monthly Status Report through April 2016

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. Design of the project is complete and the project has entered the construction phase.

Monthly Progress

- A pre-construction meeting was held on January 13, 2016 and Kirlin was issued a Notice to Proceed on January 18, 2016
- Kirlin has secured all building and trailer permits and has been mobilizing on-site
- Construction trailers are on-site with FPL electrical hook-ups anticipated for completion by April 15th.
- Progress meetings are being held bi-monthly
- A pre-concrete conference was held on March 18, 2016

- Shop drawings submittals from the contractor are progressing
- Geotechnical work (subsurface vibro-compaction) associated with the filter subgrade has been completed
- Installation of formwork and steel placement for the deep bed filters continues. Kirlin has completed the first two concrete pours on the filter structure. Excavation for installation of underground electrical ductbank is also proceeding.



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 finalized design and assisted with negotiations of contract with All Webb's Enterprises to perform MIT work
- Project pre-construction meeting planned for April 6
- MIT work
 - Casing pressure test completed April 14
 - Video survey completed April 15
 - Temperature log completed April 18
 - Radioactive Tracer Survey completed April 18



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.
270 South Central Boulevard, Suite 207, Jupiter, FL 33458 (561) 575 2005

MEMORANDUM

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

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

Date: May 12, 2016

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 May 12, 2016:

Loxahatchee River Road Reclaimed Water Main Replacement

- We are waiting for the Florida Department of Environmental Protection to issue the submerged land lease. This is the only outstanding permitting issue. A force main extension from Eagle's Nest will also be incorporated into this project under a separate work authorization. Upon receipt of the submerged land lease and incorporation of the force main design into the project the plans and specifications will be finalized and the project can be advertised for bidding.

Jupiter Plantation Lift Station #13 Force Main Replacement

- The preconstruction meeting for this project was held on May 11, 2016. Upon receipt of the Town of Jupiter Engineering Permit, the Notice to Proceed will be issued to the Contractor which is anticipated to occur at the latest by the end of the month.

Maplewood Lift Station #21 Force Main Extension

- The project was awarded to Felix Associates of Florida. An electronic copy of the contract documents has been provided to District staff for signature by the Contractor and the District. Upon execution of the documents, a preconstruction meeting will be scheduled for the project and a Notice to Proceed will be issued.

Turtle Creek Phase I

- Information obtained on additional septic tank location forms received and incorporation of the comments 60% design submittal are currently being addressed. A 90% design submittal will be made to staff for review and comment by May 20, 2016.

Turtle Creek – North End – Subsystem 3 Low Pressure Force Main System

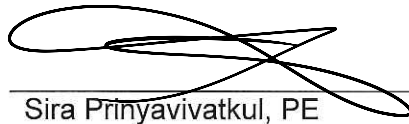
- The project was approved at the April board meeting. Survey for the project will be commencing shortly.

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
ENGINEER'S MONTHLY STATUS REPORT THRU APRIL 30, 2016**

JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION

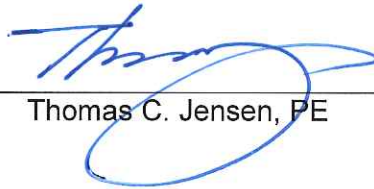
- Jupiter Inlet Colony Town Hall Meeting conducted on April 4th, 2016.
- Ongoing review of shop drawings.
- Modifications to construction plans to narrow the pavement width per JIC request is ongoing.
- Coordination with Contractor on a construction schedule is ongoing.
- Coordination to utilize private properties onsite for storage/staging is ongoing.

ARCADIS, Inc.



Sira Prinyavivatkul, PE

Kimley-Horn and Associates, Inc.



Thomas C. Jensen, PE



***Loxahatchee River Environmental Control District
Monthly Status Report
May 12, 2016***

Submitted To: Clinton Yerkes, Deputy Director

The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through May 12, 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 was 2-19-16 and the final completion was issued on 4-24-16. MC reviewed pay requests, coordinated construction activities with the District, Contractor and PBC, provided final inspection, assisted with resident complaint resolutions, and worked on close-out documents.

Alternate A1A Subaqueous Forcemain Study

The Draft Temporary / Emergency Bypass Pumping Plan was submitted to the District for review on 1-13-16. The District provided MC comments on the Draft Temporary / Emergency Bypass Pumping Plan on 2-10-16. The final plan was submitted back to the District and approved.

MC has been coordinating with Hazen regarding their project with the Town of Jupiter for a new water main to be attached to the A.1.A. Bridge. A force main will also be added to Hazen's project that will be the selected alternative for the Alternate A.1.A. FM Study. MC submitted the draft Preliminary Design Report for the Alternate A1A Subaqueous Force Main Rehabilitation/ Replacement Study on 4-7-16. The District provided MC comments on the Preliminary Design Report on 4-12-16. MC is working on finalizing the report. Final report will be submitted to the District the week of May 16th, 2016.

Master Lift Station #1 Rehabilitation

MC finalized and submitted the Preliminary Design Report to the District on 5-13-16. The Final Report was revised based on comments provided by LRECD.

Whispering Trails Preliminary Design

MC held a kick-off meeting with the District on 4-28-16. MC completed the preliminary layout for the Gravity Sewer System and the Low Pressure Sewer System. The District provided MC comments on both layouts. MC also began preparing Draft Preliminary Design Letter Report

Respectfully Submitted by:

MATHEWS CONSULTING, INC.

Rene L. Mathews, P.E.
President