

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: April 7, 2015

FILE: 42009-012.3.1.3

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

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

Groundwater Monitor Wells – This project consist of construction of eleven new shallow monitor wells as part of the Wastewater Treatment Facility reuse monitoring system and as required by the new operating permit. The new monitor wells are needed to address FDEP's current position on proximity to the respective recharge lakes (i.e., located within 100 feet of lake), and screening through the water table interface. In addition to construction of new wells, the project also includes plugging and abandonment 34 existing wells. The new monitoring program will allow the LRD comply with FDEP's permit requirements and significantly reduce the amount of sampling required for compliance.

Monthly Progress

- Permitting of the wells has been completed
- Construction has begun and is anticipated to be completed in April
- FDEP has been contacted to keep them abreast of progress
- Anticipate finalizing the project in May

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

Monthly Progress

- LRD staff and H&S personnel continue to communicate to discuss plant operations

- Met with Dr. Pitt and staff to discuss process
- The wastewater treatment process continues to operate well

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 90% complete design documents were submitted to the LRD on Friday, March 6, 2015
- The updated anticipated construction schedule and opinion of probable construction cost estimate based upon the 90% design completion documents will be submitted to the LRD by March 12, 2015
- A review meeting will be held with LRD staff and the constructability review team to discuss comments on the 90% complete design documents. H&S will incorporate comments and submit the final set of contract documents for bidding
- Permitting of the project is ongoing:
 - The permit process for both the FDEP Environmental Resource Permit (ERP) and FDEP construction permit were initiated. H&S has received an email confirmation from FDEP that an ERP will not be required for the project. H&S submitted the application package to construct the deep bed filters to FDEP on March 12, 2015. FDEP issues a Notice of Permit Revision to LRD on March 24, 2015.
 - H&S attended a Site Plan pre-application meeting on March 31, 2015 at the Palm Beach County Zoning Division. At the meeting H&S was informed that the deep bed filter project will be required to obtain approval of a site plan revision by the Palm Beach County Development Review Office (DRO). It is anticipated the submittal package for DRO approval will be completed within the necessary time frame to be included on the May 20, 2015 DRO meeting agenda. DRO approval must be obtained prior to initiating the Palm Beach County Building Department permit drawing review process.

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: April 9, 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 April 9, 2015:

Rolling Green Road Low Pressure Force Main

- Lidberg Land Surveying has conducted the survey of the project site. A field walkthrough of the site was completed to review the survey. Missing items were noted for Lidberg to go back and obtain. All items have been finalized with the exception of underground electric at the north end of the project. Ground Hound is obtaining that information and a revised survey will be transmitted.
- 30% Design Submittal and Engineers Opinion of Probable Construction Cost will be submitted to staff by April 22, 2015.

Loxahatchee River Road Reclaimed Water Main Replacement

- The project was authorized on March 23, 2015.
- HCE has coordinated with Lidberg Land Surveying for survey and utility locates for the project.
- HCE has coordinated with Anderson Andre Consulting Engineers for the geotechnical investigation for the project.
- The environmental survey will commence in June. A requirement of the assessment is to evaluate the possible presence of Johnston Seagrass, which is dormant during the winter months and only grows from May until August. The FDEP will not accept the assessment without this evaluation.
- Survey will be completed by April 20, 2015. Geotechnical investigation will be completed by April 27, 2015.
- 30% Design Submittal and Engineers Opinion of Probable Construction Cost will be submitted to staff by May 11, 2015.



***Loxahatchee River Environmental Control District
Monthly Status Report
April 9, 2015***

Submitted To: Clinton Yerkes, Deputy Director

The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through April 9, 2015.

Little Oaks / River Oaks Neighborhood Sewering

MC submitted the 75% Design package to the District on 2-5-15. The soil borings and soft digs in the project area have been completed and the information is shown on the 75% plans. A 75% design review meeting was held on 3-3-15. Based on the District's comments made at the meeting, MC completed the Construction Drawings.

The following summarizes the on-going permitting efforts:

1. SFWMD Dewatering Permit – the permit has been secured.
2. PBCHD Wastewater Collection/Transmission Permit – under review. MC received RFI #1 and the requested info was sent to the Health Department on April 9, 2015.
3. Palm Beach County Utility Permit – under review.

As soon as all the above permits are secured, the project will be ready for bidding.

Deep Bed Filters 90% Constructability Review

MC conducted the 90% VE/Constructability workshop March 30, 2015 through April 2, 2015. The VE/Constructability report was submitted to the District on April 6, 2015. A review meeting is scheduled for April 17, 2015.

Respectfully Submitted by:

MATHEWS CONSULTING, INC.

Rene L. Mathews, P.E.
President

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
ENGINEER'S MONTHLY STATUS REPORT THRU MARCH 29, 2015**

JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION

- Received District plan comments on the 90% plans on March 27, 2015
- Commenced with addressing District comments
- Submitted Health Dept., SFWMD (Drainage and Dewatering Application) Permit Application for review
- Requested permit fee checks
- Received new District up-front documents and commenced with incorporating these into the project specifications

ARCADIS US, Inc.



Thomas C. Jensen, PE
Vice President



March 2015
WGI MONTHLY PROGRESS REPORT

Project Title Ocean Cove Force Main

Project Number(s) LRD P.O. No.: 47357

WGI Project Manager WGI No: 40910986.06
James W. Richie, PE

① Work Completed This Month

- Submittals
- Progress Meeting 1
- Pay Application 1 (in progress)
- Site visits to observe progress, MOT
- Contractor completed eastern directional bore in Ocean Cove

② Anticipated Work Next Month

- Construction
- Pay Application 1 and 2
- Progress Meeting 2

③ Services Anticipated After Next Month

- Construction completion
- Certifications of completion

④ Critical Issues (Milestones)


- None.

☞ WE APPRECIATE THE OPPORTUNITY TO SERVE YOU! ☞

Memorandum

Date: April 9, 2015

To: Dr. D. Albrey Arrington, Executive Director
Loxahatchee River District

From: Lawrence A. Lardieri, P.E. 

Subject: April 2015 Monthly Report

Project: Turtle Creek Area Sanitary Sewer PER

This memorandum is a synopsis of the activities by AECOM Technical Services, Inc. on the subject project through Wednesday, April 8, 2015.

- ✚ AECOM is awaiting receipt of LRD staff comments on the draft PER document provided for review. Once comments are received, or if there are no further comments, the PER document will be finalized and delivered.
- ✚ AECOM coordinated with District staff regarding the project as necessary.

End of Report