

Johnson, Sabrina O

From: Tafuni, Steven
Sent: Monday, August 12, 2019 2:47 PM
To: SWD_Waste
Subject: FW: stormwater discharge Results
Attachments: Lena Road Landfill Stormwater System Revisions.pdf

Steven Tafuni

FDEP-SWD, Government Operations Consultant,
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From: Fischer, Shane <SFischer@SCSEngineers.com>
Sent: Monday, August 12, 2019 12:34 PM
To: Tafuni, Steven <Steven.Tafuni@FloridaDEP.gov>; Morgan, Steve <Steve.Morgan@FloridaDEP.gov>
Cc: Robert Shankle <robert.shankle@mymanatee.org>; Bryan White <bryan.white@mymanatee.org>; Anthony Detweiler <anthony.detweiler@mymanatee.org>; Lebron, Carlo <CLEbron@scsengineers.com>; Cooper, Dan <DCooper@SCSEngineers.com>; Curtis, Bob <BCurtis@scsengineers.com>
Subject: RE: stormwater discharge Results

Mr. Tafuni,

Per your conversation with Bryan White, please find attached a description of the proposed revisions to the stormwater system.

Please let me know if you have any questions.

Thanks

Shane R. Fischer, P.E.
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From: Bryan White <bryan.white@mymanatee.org>
Sent: Tuesday, August 6, 2019 11:51 AM
To: Steven Tafuni <steven.tafuni@dep.state.fl.us>; Fischer, Shane <SFischer@SCSEngineers.com>
Cc: Morgan, Steve <Steve.Morgan@FloridaDEP.gov>; Robert Shankle <robert.shankle@mymanatee.org>; Anthony

Detweiler <anthony.detweiler@mymanatee.org>; Fischer, Shane <SFischer@SCSEngineers.com>

Subject: stormwater discharge Results

Mr. Tafuni, you should have received a phone message from me asking for a return phone call. This conversation will be explanation on stormwater practices. I have copied you on our stormwater samples so you have them in front of you prior to our phone conversation. Please see the attached.

Respectfully,

Bryan White
Landfill Superintendent
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August 12, 2019
File No. 09217088.10

Mr. Steven Tafuni
Florida Department of Environmental Protection
Southwest District Office - Solid Waste Section
130501 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Lena Road Landfill
Stormwater System Revisions

Dear Mr. Tafuni:

On behalf of the Manatee County, Solid Waste Division (SWD), SCS Engineers (SCS) has prepared the following general overview of revisions that will be implemented on a portion of the Lena Road Landfill stormwater system. This overview is provided per your request during the telephone conversation you had with Bryan White of SWD on August 7, 2019.

The disc filter system currently used for solids removal from stormwater within Pond #2 is not suited for this application as intended and is a maintenance intensive item for County staff. In addition, various components of the disc filter system are in need of repair or replacement and are not readily available. Therefore, effective immediately the County will discontinue the use of the disc filter system. SCS is currently working with the County to develop plans to return Pond #1 to a "dry pond" and upgrade its capability to remove solids from the stormwater prior to discharge offsite through Outfall 001.

Our approach is to install a sidebank filter system and potentially an underdrain system within Pond #1. The system will be designed similar to a French Drain to retain solids in the pond. The pipe within these features will be perforated HDPE, which will allow for maintenance equipment to drive over the material, if needed. The HDPE pipe will be bedded in coarse aggregate and wrapped with a geotextile filter fabric. A control/discharge structure will be designed in the northern portion of the pond to contain water and allow filtration to the piping system but also provide adequate discharge during heavy rainfall events.

The outlet control structure from Pond #2 will be revised to direct flow to Pond #1 and not pump it to the disc filter system. The structure will include a weir inlet to hold back the first flush from Pond #2, thus allowing a residence time that provides the initial settling time for solids. The structure will include a discharge pipe to allow flow to Pond #1 and a weir will be designed to accept high flows during heavy storm events. Fabric formed concrete revetment may also be installed in the area around the Pond #2 outlet control structure to prevent vegetative growth and provide ease of access for maintenance. In addition, a skimmer may be added around the revetment in front of the control structure to prevent floating debris from entering the control structure. The existing pipe located at the toe of slope of Pond #2 that discharges to Pond #1 will be abandoned. This will allow flow only to go through the control structure.

Mr. Steven Tafuni
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We estimate the time to design, bid, and construct the project to be approximately one year. During this period the County will continue to sample the stormwater discharge at Outfall 001 per their National Pollutant Discharge Elimination System permit and continue other Best Management Practices as indicated in their Stormwater Pollution Prevention Plan.

If you have any questions regarding the information contained herein, please contact the undersigned at (813) 804-6714.

Sincerely,



Shane R. Fischer, P.E.
Office Manager/Project Director
SCS Engineers



Carlo Lebron, P.E.
Vice President
SCS Engineers

SRF/CFL

cc: Robert Shankle, Manatee County
Bryan White, Manatee County
Anthony Detweiler, Manatee County