From:	Madden, Melissa
To:	Byer, Kimberly
Cc:	Ruiz, Larry; Adams, David; Clark, Bruce; "Curtis, Bob"; Guilbeault, Ken; Greenwell, Jeffry; Morgan, Steve (Steve.Morgan@dep.state.fl.us); Steven Tafuni (Steven.Tafuni@dep.state.fl.us); Boatwright, Kelley M.; Ramirez, Javier; Morris, John R. (John.R.Morris@dep.state.fl.us)
Subject:	RE: SCLF - Liquid Assessment Monitoring Work Plan
Date:	Tuesday, November 1, 2016 12:50:00 PM
Attachments:	20161021 SCLF Liquid Assessment Work Plan.pdf image002.png

Ms. Byer,

The Department has reviewed the Liquid Assessment Monitoring and TH-79 Installation Work Plan ("Work Plan"), dated and received October 21, 2016, to evaluate the head over liner in Phases I-VI. The Department does not object to the approach of further evaluating liquid levels within the LFG extraction wells with the pump tests as outlined in Section 3.A. of the Work Plan. However, the Department does not necessarily agree that this approach will provide sufficient information to demonstrate that there are not increased liquid levels across the Phases I-VI footprint, or that the quantity, design and/or location of the piezometers proposed in Stage 2 of the Work Plan will be sufficient to fully evaluate all areas of concern. It is unclear how the proposed Work Plan will lead to an evaluation of head on liner and status of the function of the leachate collection system in order to allow operation in successive phases of the landfill. As outlined in Section 4 of the Work Plan, the Department anticipates that following your evaluation of the pump tests a meeting will be scheduled prior to the implementation of Stage 2 of the Work Plan and therefore, additional Department feedback will be provided at that time. The Department is tentatively available to meet Friday, November 18, 2016. Please contact me to schedule the meeting.

The following comments on the Work Plan are provided for your consideration:

Section 2.a. No basis was provided for evaluating areas where there are no extraction wells present, or where perimeter extraction wells outside of the Phase I/II focus area show elevated liquid levels with no proposal to further delineate or monitor these areas. It was the Department's understanding based on the August 22, 2016 Investigation of TH-67 Area, prepared by SCS, letter that the temporary piezometers were installed just above the top of the clay, with the screened interval presumably intercepting the 3' drainage layer. It does not appear that an explanation was provided as to why liquid would not drain to the leachate collection system via this method, and has instead steadily increased during the recent rainy season.

Section 2.c. Please verify that TH-79 will be placed in between TH-67 and TH-66/66A and not TH-68. Please verify that this well will be placed approximately 50' from the edge of waste to be an appropriate detection well.

Section 3.a. Please verify that leachate pumped from the extraction wells during the pump tests will be pumped to the leachate collection system. It may be helpful to record the volume of liquid pumped from each of the extraction wells during the pump tests. Please verify that the vacuum on the extraction system will be reduced and constant during pump tests and past/future liquid level monitoring to ensure consistent data.

Attachment B/Figure B-1. The bottom elevations for several extraction wells listed in this table appear to be lower than the 2016 estimated top of clay elevations provided on Figure B-1. Please verify the bottom elevations for EW-7, EW-54 and EW-59. Additionally, it does not appear that information

provided for EW-63 on Figure B-1 and provided in Attachment B are consistent, please verify. Lastly, it does not appear that the liquid level provided for EW-64 includes the approximate 10.5' distance from the bottom of the extraction well to the top of the clay layer as depicted on Section B-B', which could indicate upwards of 32' of liquid in this area. Expanded cross sections (eg. B-B') across the entire footprint which include a depiction of the PS-B sump and perimeter berm would be helpful to evaluate site wide conditions. Additional N-S and E-W cross sections in the area of EWs-45-46, which includes the perimeter berm(s), would also be helpful in evaluating conditions in this area since no monitoring well is present, and levels appear to indicate significant accumulation very near the edge of liner.

Please feel free to contact me with any questions or concerns.

Thanks, Melissa

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From: Curtis, Bob [mailto:BCurtis@scsengineers.com]
Sent: Friday, October 21, 2016 4:14 PM
To: Madden, Melissa <Melissa.Madden@dep.state.fl.us>
Cc: Ruiz, Larry <RuizLE@HillsboroughCounty.ORG>; Byer, Kimberly <ByerK@hillsboroughcounty.org>; Adams, David <AdamsDS@HillsboroughCounty.ORG>; Clark, Bruce <BClark@SCSEngineers.com>; Guilbeault, Ken <KGuilbeault@SCSEngineers.com>; Greenwell, Jeffry <GreenwellJ@hillsboroughcounty.org>
Subject: SCLF - Liquid Assessment Monitoring Work Plan

Dear Ms. Madden:

On behalf of the Hillsborough County Public Works Department, Solid Waste Management Division (SWMD), attached please find a PDF of a proposed work plan to assess alternatives to evaluate the head over the clay liner in Phases I-VI at the Southeast County Landfill (SCLF). This plan is part of an on-going investigation into elevated readings of select groundwater quality parameters at TH-67. This work plan is a follow up to the TH-67 Findings Report prepared by the SWMD and SCS dated August 26, 2016, and submitted to the Florida Department of Environmental Protection (FDEP). A hard copy of the work plan will be sent to your office.

We look forward to working cooperatively with you as we continue to evaluate the head over liner in Phases I – VI, and determine the most practical way to manage the leachate in the landfill.

Please contact Bruce Clark or me if you have any questions or require additional information.

Regards,

Bob

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