



Florida Department of Environmental Protection

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2600 Blair Stone Road
Tallahassee, FL 32399-2400

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Governor

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Ryan E. Mathews
Interim Secretary

REQUEST FOR ADDITIONAL INFORMATION

May 8, 2017

Ms. Kimberly A. Byer
Director, Solid Waste Management Division
Hillsborough County Public Works Department
332 North Falkenburg Road
Tampa, Florida, 33619
byerk@hillsboroughcounty.org

Re: Hillsborough County – Solid Waste
First Request for Additional Information (RAI)
Facility Name: Southeast County Class I Landfill
Facility ID: 41193
DEP Application Nos.: 35435-024-SO-MM Revised Fill Sequence Phases I-VI

Dear Ms. Byer:

Thank you for your application for a minor modification to the Southeast County Class I Landfill operation permit. The permit modification application was prepared and submitted by SCS Engineers, Inc. on April 11, 2017. A Department staff review of the application and supporting documentation submitted on April 11, 2017 indicates the application is incomplete. Pursuant to the provisions of 62-4.055, please provide the requested information listed below. Please refer to this correspondence in your response. The response to this correspondence must be signed, sealed, and dated by a registered Florida Professional Engineer.

The Department has no fundamental objection to the requested minor modification. Upon reviewing the Leachate Management Plan submitted on December 31, 1998, it is obvious that we lack a complete understanding of the exact processes influencing the behavior of the existing leachate collection system. The following items are requested with the aim of developing a fuller understanding of the drainage processes at the facility.

Settlement of LCS piping under additional surcharge continues to be of interest to the Department.

- 1) Please supply an updated set of sequence drawings. Please adjust the drawings labels (or the text of the document) so that the entire application displays consistent labeling. The submitted drawing package needs to display the title block associated with the engineer of record (SCS).
- 2) Please supply veneer stability calculations for the new sequence geometry. If the slope of the cell and the cover material configuration has not changed, a reference to a previous report

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- that included these calculations will be sufficient.
- 3) A spreadsheet output is supplied that displays the expected compaction at multiple locations within the fill. Please provide a calculation that displays the procedure used in calculating the spreadsheet values. Doing this for a single critical location is sufficient.
 - 4) Please provide time rate of settlement calculations that reflect both the compaction of the fill material and the continuous adjustment of the surcharge load. We are interested in time to both 50% and 90% settlement and, also, developing cross sections showing the settlement to be expected at 5 year intervals. Please develop two cross sections that shows the bottom expected elevation of two LCS lines at 5 year intervals. These cross sections should be consistent with your time rate of settlement calculations. Please use the most critical LCS paths for your cross drawings. Also, Chapter 3 of Qian and Koerner ("Geotechnical Aspects of Landfill Design and Construction") provides a discussion of compacted clay liner design and performance. Selected portions of this chapter might be relevant to the current application.
 - 5) Please provide a complete updated Operation Plan that includes a drawing displaying all LFG monitoring points as listed in the table on page 18 of the application submittal.

In order for the Department to proceed, please submit the requested information as soon as possible. The Department must receive a response within 90 days of the date of this letter, May 3, 2017, unless a written request for additional time to provide the requested information is submitted and approved. Please note that pursuant to 62-4.055(1), and Section 120.60, Florida Statutes, failure of an applicant to provide the timely requested information by the applicable deadline may result in denial of the application. You are encouraged to contact this office to discuss the items requested to assist you in developing a complete and adequate response.

Please submit the response in electronic format to SWPP@dep.state.fl.us, with a copy to Philip.Ciaravella@dep.state.fl.us. If the file is very large, you may post it to a folder on this office's ftp site at: <ftp://ftp.dep.state.fl.us/pub/incoming/Solid%20Waste%20Tallahassee>. After posting the document, send an e-mail to SWPP@dep.state.fl.us, with a copy to Philip.Ciaravella@dep.state.fl.us, alerting us that it has been posted.

If you have any questions, please feel free to contact either Henry Freedenberg or Phil Ciaravella by email at Henry.Freedenberg@dep.state.fl.us or Philip.Ciaravella@dep.state.fl.us or by phone at 850-245-8760 (Mr. Freedenberg) or 850-245-8742 (Mr. Ciaravella) or by mail at Mail Stop #4565 at the letterhead address above.

Sincerely,



Henry Freedenberg PE, PG

Solid Waste Section

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cc:

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