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May 13, 2013

Mr. F. Thomas Lubozynski, P.E.
Air & Waste Program Administrator
Florida Department of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767

RE: Volusia County – Tomoka Farms Road Landfill
Engineer’s Professional Opinion of the Landfill Leachate Video Inspection and
Pressure Cleaning

Class I Solid Waste Disposal Area, WACS # 27540 (OCD SW 13-1256)
Permit Application No. 0078767-030-SO-01

Dear Mr. Lubozynski:

This letter is presented to you as my professional opinion regarding the video inspection and cleaning of the leachate collection system at the County of Volusia, Tomoka Farms Road Landfill.

As described in Attachment E of the above referenced permit application and the corresponding response to comments for the 2nd Request for Additional Information (RAI) dated April 10, 2013, the leachate collection system for the North Cell at the Volusia County, Tomoka Farms Road Landfill was video inspected starting in June 2012 continuing through October 2012. I was present for the video inspections and reviewed the corresponding video reports provided by the contractor. The video reports showed some build up of sand and debris in the sumps for Side Slope Risers 1, 2, 3, 4, and 6. These risers were subsequently jet cleaned and vacuumed until the sumps were clear of sand and debris. After the cleanings, Side Slope Risers 2 and 3 were once again video inspected to determine the extent of any possible damage to the side slope riser pipe or sump. Risers 2 and 3 each had sections of the riser pipe that were cracked and egg shaped. The sump for Riser 2 is clear of sand and debris and the leachate collection system is functioning as designed. Riser 3 still contains some sand and debris in the sump and the sump itself appears to be failing from the bottom.

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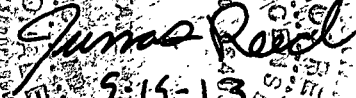
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At the time of the video inspection, the sand in the sump of Riser 3 was below the level of the incoming leachate collection pipe and leachate was observed flowing into this sump.

The County has decided to replace the side slope riser up to and including the sumps for Risers 2 and 3. This project will be similar to the North cell sump replacement project that was completed in November 2009, when the County replaced the side slope riser pipe and sumps for Side Slope Risers 1, 4, 5, and 6. The replacement for Side Slope Risers 2 and 3 is scheduled for construction in April of 2014.

In conclusion, it is my professional opinion that the leachate collection system for the North Cell at the Tomoka Farms Road Landfill, specifically Risers 1, 2, 4, 5, and 6 will continue to remove leachate and function as designed for a minimum of five years from October 2012. Additionally, it is my professional opinion that the leachate collection system for Riser 3 will continue to function as designed until the County replaces it. If you have any questions or would like additional explanation, please advise.

Sincerely,



James Reed, P.E.

Civil Engineer III

Volusia County Solid Waste Division

ADM-13-113

cc: Richard Tedder, P.E. FDEP, Solid Waste Program Administrator, Tallahassee
Leonard Marion, Director, Volusia County Solid Waste
Jennifer Stirk, Environmental Specialist III, Volusia County Solid Waste
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