



Florida Department of  
Environmental Protection  
Inspection Checklist

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**FACILITY INFORMATION:**

**Facility Name:** TOMOKA FARMS ROAD LANDFILL  
**On-Site Inspection Start Date:** 10/02/2014  
**On-Site Inspection End Date:** 10/02/2014  
**WACS No.:** 27540  
**Facility Street Address:** 1990 TOMOKA FARMS ROAD  
**City:** PORT ORANGE  
**County Name:** VOLUSIA  
**Zip:** 32128

**INSPECTION PARTICIPANTS:**

(Include ALL Landfill and Department Personnel with Corresponding Titles)

**Principal Inspector:** Allen Rainey, Inspector

**Other Participants:** Kim Rush, Inspector; Junos Reed, P.E.; Jennifer Stirk, Environmental Specialist

**ATTACHMENTS TO THE INSPECTION CHECK LIST:**

This Cover Page to the Inspection Checklist may include any or all of the following attachments as appropriate.

**COMMENTS:**

10/24/2014

There are no attached inspection checklists. The dates of 10/24/14 and 10/9/14 pertain to data entry in the SWIFT database.

This inspection addressed the following three items:

Leachate Sumps 2 and 3--Observed the facility's construction progress to replace piping in leachate sumps 2 and 3.

Gas Migration Monitoring--Discussed the third quarter 2014 methane monitoring reported exceedance in MW-5 and lack of methane monitoring at the N-Viro facility ambient monitoring location (trailer).

Elevated Temperatures within the North Cell--Discussed wells in the vicinity of well EW-13 having temperatures above 131° F. Landfill staff believe there is a subsurface fire.

Kim Rush and Allen Rainey met with Junos Reed and Jennifer Stirk at the landfill administration building. Sandeep Saraf and Sam Levin with S2L, Inc., were also present. Following discussion of the above items, Mr. Saraf and Mr. Levin departed, and Mr. Reed and Ms. Stirk led Ms. Rush and Mr. Rainey to inspect the sump construction, the area of high temperatures, and the N-Viro facility location.

Leachate Sumps 2 and 3

The facility is in the process of replacing the corrugated HDPE pipe within sumps 2 and 3 located on the west edge of the North Cell. This action addresses Specific Condition C.12.f of Permit Modification 0078767-031-MM issued 4/17/14, which requires the facility to complete

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replacement of sumps 2 and 3 within 12 months from the date of permit issuance.

The facility had completed waste excavation at both sumps, exposing the corrugated piping. A temporary pump in leachate sump 2 (southern-most sump) was operating at the time of this inspection because piping was no longer connected to the leachate system. Collected leachate from sump 2 is being directed to the south leachate pond. Sump 3 was still connected to the leachate system at the time of this inspection. The facility is currently waiting on delivery of liner material to the site.

A 9/17/14 letter from HDR stated four gas collection wells adjacent to the sumps may be shut down until possibly April 2015 because of the construction, but landfill staff expect that the wells will be returned to service sooner upon construction completion.

No significant odors were emitting from the exposed waste at the construction sites. No litter was observed at the time of this inspection.

#### Gas Migration Monitoring

The facility's 9/22/14 gas migration monitoring report for the third quarter of this year reported a methane measurement of 6.3% at gas probe MW-5. That reported value exceeds the lower explosive limit (LEL) for methane (5%). Additionally, the reported LEL of 0.0% was incorrect (correct conversion of 6.3% methane is 126% LEL). Ms. Stirk stated a new technician is being trained and the %LEL was recorded in the %Methane space. She stated she would re-test the probe when water levels receded and report the result to the Department.

The same report indicated that the N-Viro facility trailer was not monitored because the facility is no longer operating and N-Viro has no employees on site. The trailer rests on a wooden platform aboveground. Everyone agreed that the trailer could be removed as an ambient monitoring point based on its location and elevation aboveground. The trailer will be locked or removed for disposal as soon as possible. Ms. Stirk will address the N-Viro sampling location removal along with the MW-5 re-testing results.

Gas probe MW-2 was reported to be under water during the third quarter monitoring period and was not monitored. Ms. Stirk stated the probe remains under water.

10/09/2014

#### High Temperatures in Gas Collection Wells

Ms. Stirk stated the facility began experiencing elevated temperatures in the North Cell in January 2012. There have been no surface indicators of a subsurface fire, such as settlement, cracks, smoke, or burnt odors. Since January 2013, the facility's semi-annual reports have identified these gas wells as having elevated temperatures. Ms. Stirk also stated some of the wells have had carbon monoxide concentrations as high as 3,000 ppm. She said that the Department's Division of Air Resource Management in Tallahassee has been advised of this information.

Mr. Levin and Mr. Reed expressed safety concerns about opening the wells for internal examination. Mr. Reed stated that when well EW-13 was being drilled, there was smoke with an odor resembling burning wood. He also stated that drilling of well EW-12 was abandoned due to heat. Ms. Rush advised Ms. Stirk to include notations about the subsurface fire in the facility's semi-annual reports submitted under 40 CFR 60.757(f).

Following discussion of the above items, Mr. Saraf and Mr. Levin departed, and Mr. Reed and Ms. Stirk led Ms. Rush and Mr. Rainey to inspect the sump construction and the area of high temperatures.

Everyone walked to the top of the North Cell in the vicinity of gas extraction well EW-13. The area is highly contoured and mostly vegetated. The area will not receive another lift of waste in the near

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future.

There was no evidence of a subsurface fire. Ms. Rush advised staff to keep vehicles away from the area impacted by high temperature. Ms. Stirk agreed to notify the Department of any visual evidence of a fire or if the impacted area is suspected to be getting larger.

Ms. Stirk stated landfill gas well EW-13 was disconnected from the gas extraction system last year for safety reasons. Semi-annual reports have stated that well and others in the vicinity have been shutdown, which is permissible under 40 CFR 60.753(b). Mr. Rainey observed the disconnected piping.

#### ATTACHMENTS:

1: E view of leachate sump 3



2: E view of sump 3



3: E view of sump 3



4: bottom of sump 3



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5: Corrugated piping at sump 3



6: Corrugated piping at sump 3



7: E view of leachate sump 2



8: leachate sump 2



9: excavation at sump 2



10: excavation at sump 2



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11: excavation at sump 2



12: N-Viro facility trailer



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**Signed:**

Allen Rainey PRINCIPAL INSPECTOR NAME	Inspector PRINCIPAL INSPECTOR TITLE
<i>Allen Rainey</i> PRINCIPAL INSPECTOR SIGNATURE	FDEP ORGANIZATION
	10/8/2014 DATE
Kim Rush INSPECTOR NAME	Inspector INSPECTOR TITLE
NO SIGNATURE INSPECTOR SIGNATURE	FDEP ORGANIZATION
Junos Reed REPRESENTATIVE NAME	P.E. REPRESENTATIVE TITLE
NO SIGNATURE REPRESENTATIVE SIGNATURE	Volusia County ORGANIZATION
Jennifer Stirk REPRESENTATIVE NAME	Environmental Specialist REPRESENTATIVE TITLE
NO SIGNATURE REPRESENTATIVE SIGNATURE	Volusia County ORGANIZATION

**Supervisor:** Tom Lubozynski

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Not Ok" or areas of concern.