



Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS

SOLID WASTE MANAGEMENT DIVISION

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October 29, 2015

Mr. Steve Morgan, Environmental Engineer
Department of Environmental Protection
Solid Waste Section
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

Re: **Citrus County Central Landfill - Permit No. 21375-018-SO/01**
Leachate Storage Tank Inspections
WACS I.D. # 39859 - Electronic Submittal

Dear Mr. Morgan:

In compliance with Specific Condition C.8.g. (3), please find the Leachate Storage Tank(s) inspection report. It should be noted that no deficiencies were noted during the inspection and the facility was found to be in good condition and is functioning as designed.

It should be further noted that even though there appears to be no significant change from the last inspection as to the bubbles in the interior liner, the County intends on proceeding with either patching or completely removing and installing a new liner in both tanks. It is anticipated that the repairs / replacement will be completed by the spring of 2016 (weather permitting) and upon completion a follow up report will be submitted.

If you should need additional information, please let me know.

Sincerely,

Henry C. Norris, Jr.
Director, Citrus County
Division of Solid Waste Management

HCN:cw

CC: Jeff Rogers, P.E., Director, Department of Public Works (Electronic)
Cathy Winter, Compliance Manager, Solid Waste Division

**Citrus County, Florida
Leachate Storage Tank(s)
Inspection Report**



**Prepared by
Henry C. Norris, Jr.
Citrus County Division of Solid Waste Management
P.O. Box 340, Lecanto, FL 34460
Citrus County Central Landfill
230 W. Gulf to Lake Highway, Lecanto, FL 34461**

October 29, 2015

Leachate Storage Tank Inspection Regulations

Leachate Storage Tanks shall be inspected in compliance with Rule 62-701.400 (6) (c) 9. F.A.C., “the interior inspections of tanks shall be performed whenever the tank is drained, or at a minimum of every three years.”

Background – Leachate Storage Tanks

The Leachate storage tanks consists of two 125,000 gallon each cast-in-place concrete tanks constructed in 1996. During the county inspection of 2012 a series of bubbles was visibility noted on the interior of the leachate storage tanks.

A follow up inspection was completed by Tnemec products sales representative, Bill Langer with Florida Protective Coatings and he stated that the bubbles appearing in the epoxy material did not appear to compromise the integrity of the lining, but may require repair by patching areas in the future.

Storage Tank Interior Cleaning and Inspection (Permit Compliance)

During the month of October 2015 Citrus County Solid Waste contracted with Citrus County Utilities to conduct the cleaning and inspection of the interior of the two 125,000 gallon cast-in-place concrete tanks.

The individual tanks were drained; grit was cleaned through a combination of manual labor and water jetting and vacuumed out of the tank by a Citrus County Road Maintenance Vacuum Truck. The interior of the tanks (walls and floor) were inspected by Citrus County Certified Wastewater Treatment Operators. The elasticized polymer coating on the interior of the tanks was found to be intact and functioning as intended. Some air bubbles were found between the floors, concrete walls and the interior coating which according to previous reports, as long as the “bubbles” were intact and not broken, the interior coating would continue to function and not be a threat to allow leachate to come into contact with the concrete walls or floor. Notes documenting the cleaning and inspection of the Leachate Treatment Tanks are maintained on site and are available for inspection. Figures 1 and 2 document the post-cleaning and inspection of tanks.



Figure 1: South Tank interior
post-cleaning, October, 2015.



Figure 2: North Tank interior
post-cleaning, October 2015.

Figure 3 documents a sample of the interior wall with intact air bubble.



Conclusions

The cleaning and inspection of the Leachate Storage Tanks by Certified Operators from the Citrus County Utilities Department as required by permit noted the following:

Interior: The bubbles on the walls as well as the floors were observed in both tanks and though there appears to be no significant change from the last inspection, the County intends on proceeding with either patching or completely removing and installing a new liner in both tanks. It is anticipated that the repairs / replacement of the liner will be completed by the spring of 2016 (weather permitting) and a follow up report will be submitted.

The Tnemec products sales representative, Bill Langer with Florida Protective Coatings has been contacted to make a further inspection of the current condition and provide recommendations.

Exterior: The storage tanks exterior and the containment structure are in good condition and there does not appear to be major structural deficiencies or the need for major structural repairs.

Citrus County Utilities Department recommends that Solid Waste continue regular maintenance and inspection of the Leachate Storage Tanks in order to continue to provide proper safe and environmentally sound handling of the leachate.