

FORCE Quarterly Report

March 28, 2005

Project: GOC-Vapor Odor Control for Biosolids Tipping Floors and MSW Transfer Station.

Project Manager: Bob Broom

Period Covered: Jan, Feb, March 2005

Actions:

January: There were no visits to the facility during January. Both systems have now been running for 3 months, since October 21st, without electrical or mechanical problems other than the electrical power supply problems described in the December 2004 report. Chuck Jett has confirmed that no odor complaints were received during the 3 months of this system's operation.

February: In the original grant agreement the likely trial period was estimated to be approximately 100 days. Thus, on or near January 30th the product would run out. The equipment lease was contracted through February 22nd. The Project Deliverables were as follows:

- 1 x HDLA100 and 1 x HDLA300 Vapor System control units – A free standing unit secured in a metal box. (4 month lease)
- 48 gallons of Evane/Zyme and 48 gallons of Evane Scent

In fact, RKB Enterprises delivered 55-gallons of Evane/Zyme and 55 gallons of Evane Scent to begin the trial. Sufficient product remained to continue running the system into March.

There were no mechanical or electrical problems with the equipment and no odor complaints during February.

March: As expected the two systems were running low on product. I had 10-gallons of Evane/Zyme in storage that I had purchased but not used on another project so I forwarded them to Sumter to keep the two systems running.

In the FORCE agreement, after the trial and providing an annual contract is acceptable to the county, the biosolids system will cost \$ 2,160 monthly and the unit in the transfer station doorway \$ 720 monthly. A total of \$ 2,880 per month is more than the county is prepared to budget for an odor system. That being the situation I began discussions with Chuck Jett as to the county's options. Unfortunately, this was later than needed to account for the time any system change would take to get DEP's approval; this was entirely my fault, I should have started discussions on the post trial situation with Chuck Jett in January.

During March 05 GOC Technologies reached an agreement with a Canadian spray equipment manufacturer. Using a single control unit both areas can be treated; the

proposed atomizing system is capable of delivering treatment products to multiple nozzles over a linear distance of 1,000ft, and, GOC's odor treatment product BAT 502 is compatible.

It was therefore agreed with Chuck Jett to pursue this as a solution for the facility. Odor treatment will now be supplied to both areas simultaneously using only one unit. The system also has added sophistication; a wind sensor will be utilized to limit use of the system when the wind is not blowing from a critical sector, and, the spray times are computer controlled allowing multiple events to be programmed for each day. Through a combination of more effective use of the equipment and a lower cost of solution (BAT 502) the cost to run this system will be cut by an estimated 83%, as compared to the currently installed Hinsilblon product and equipment.

This treatment is not expected the cost Sumter County more than \$ 500 per month in BAT 502 to operate. The actual cost will depend on the number of hours per day programmed to operate, as reduced by the wind strength and direction sensor.

The new equipment and atomizing system for both areas will be purchased and installed by RKB Enterprises, Inc., at no cost to the county. At the end of the project period the entire system will become the property of Sumter County. Sumter County has agreed to begin regular purchases of BAT 502 to operate the system. The cost of BAT 502 is \$ 98 per gallon in 5-gallon pails. The county is expected to need a total of 4.5 gallons per month of concentrate BAT 502 to operate the system covering both areas.

The equipment demonstration on April 27th and 28th has prompted the purchase of the new equipment ready for installation pending approval from DEP. I traveled to Sumter from Virginia on March 20th returning on March 24th. The site was assessed for the parts and installation equipment requirements. Had DEP approval been forthcoming I would have remained to install the system.

The existing equipment was mechanically and electrically checked and continues to operate reliably. An additional 3-gallon of Evane Scent was delivered. This will keep the existing system running, hopefully until DEP are able to decide on the installation and use of the new system. Again no odor complaints have been received during March.

March 25-28

Prepare quarterly report.

757-622-0692 (phone) 757-640-0239 (FAX) 757-647-6052 (Mobile) rkbe@cox.net.