

Title: Developing a Guidance Manual for reducing greenhouse gas emission, odors, and non-methane hydrocarbons from landfills.

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Update:

- Project contract was finalized only in December 2007. A TAG Group was selected and a website was established for the project.
- A one year no-cost extension was requested because of the delay of the start of the contract and to extended out of the country assignment of Dr. Abichou
- The TAG group met via a conference call in July 2008

Based on the literature review, the following are the activities that the guidance manual will address:

Design-Related LFG Collection Components

Use of Horizontal Collectors
Use of Surface Collectors
Tighter Spacing of Vertical LFG Wells
Mixed Horizontal/Vertical Well Systems
Connection of LCRS Layer to LFG Collection System
Deep Multi-Depth Vertical Wells
Maximize Borehole and Well Diameters
Enhanced Seals on LFG Wells/Boreholes
Dewatering of Gas Wells

Enhanced Monitoring, Modeling, and Testing

Enhanced Surface Emissions Monitoring
Improved Modeling and Testing for LFG Design
Designing for Closure and Post Closure

Landfill Cover Systems

Designing Covers for LFG Collection
Biocovers
Biofilters

Project Website: <http://www.eng.fsu.edu/~abichou/guidance>