



## Winnebago Landfill Operations Report



### AN UPDATE FOR OUR NEIGHBORS

William Charles, Ltd

December 2010

Winnebago  
Landfill Company



## Winnebago Landfill Operations and Our Neighbors

The Winnebago Landfill has been in operation at the existing location for the past 38 years. Throughout our 38 years, we have done a good job managing our operations to minimize offsite odors in the area surrounding the landfill. Minimizing the offsite impact has become more difficult during the past 15 years since a significant amount of residential development has occurred in areas adjacent to the landfill. Our ability to manage odors is the result of good operating procedures and a highly effective gas management system. It is also the result of our commitment to making the necessary adjustments to our operations to ensure that any problems are corrected quickly and to the best of our ability.

The Winnebago Landfill is concerned about the recent complaints regarding odors which have been received over the past year and would like our neighbors to understand what we have been doing to address their concerns. We are committed to working with you to address your concerns and appreciate the input that we have received as we work to respond to those concerns.

The information presented in this newsletter is to ensure that you are informed of what we are doing to reduce offsite odors.



# Process Improvement and Odor Monitoring

The Winnebago Landfill has developed procedures to prevent and immediately respond to odor sources.

- ✓ Inspect daily cover and surface scans of intermediate and final cover areas with gas detection instruments.
- ✓ Review daily operations to optimize the size of the landfill's working face.
- ✓ Develop screening procedures to identify materials that cause odors and develop procedures to reject or require special handling of such materials (i.e. isolate and immediately bury).
- ✓ Review efficiency and function of gas and leachate collection systems.
- ✓ Continuously monitor and analyze weather data.
- ✓ Independent monitoring of onsite and offsite odors to identify odor sources.

# Projects to Control Landfill Gas and Reduce Odor

Collecting landfill gas and the use of certain materials in the cover soils of the landfill is a very effective way to reduce odors. Landfill gas that is collected is safely destroyed in a high temperature flare.

- ✓ Installed 13 vertical and five horizontal gas collection wells in the North Expansion Unit.
- ✓ Currently in the process of installing additional horizontal surface collectors in the perimeter and interior areas of the North Expansion.
- ✓ Installed nine additional vertical extraction wells in the South Unit.
- ✓ Established an automated landfill gas control system to ensure constant vacuum on collection system.
- ✓ Utilized agricultural lime and compost as intermediate cover soils to neutralize gas emissions not controlled by the collection system.



## Odor Complaints

You can report an odor issue to Winnebago Landfill and the IEPA 24 hours per day, 7 days per week:

1. Online at [www.odorrecord.com](http://www.odorrecord.com)
- OR
2. By phone at **815-550-2311**

Winnebago  
Landfill Company



# The Winnebago Landfill Facility Operations Summary

The landfill has two operating disposal units: the South Unit and the North Expansion Unit (see aerial view). During summer 2010, the eastern portion of the South Unit was closed and capped with a geomembrane liner that prevents odor from escaping. Remaining areas of the South Unit will undergo accelerated closure in 2011 despite having additional permitted capacity to receive waste

The North Expansion began operations in late summer 2008. Development will start on the north side and gradually move to the south, away from local roadways. In early 2009, we developed a plan to install a LFG collection system years ahead of regulatory requirements. Those plans were submitted to the IEPA for approval in late summer 2009. We are still waiting for final approval, but did receive temporary authorization to collect LFG in November 2010.

Future plans are to install additional gas collection wells, move operations further from local roadways, and cap portions of the landfill that are at final grade.

