



Scott County Sanitary Landfill Information Sheet

July 2011

History

Scott County Sanitary Landfill, located at Highways 77 & 61 in Morley, Missouri, was permitted in 1975 under permit number 120101. The landfill is approximately 22 acres in size and ceased accepting waste in 1988. The facility is owned by Scott County and Mr. and Mrs. James Moore. The original landfill design approved in 1975 did not include gas monitoring wells.

An agreement between Scott County and the Department of Natural Resources resulted in the installation of eight (8) gas monitoring wells in February 1993. In an effort to reduce methane migration offsite, installation of passive vent trenches along the perimeter of the waste on the east, north and west sides of the landfill was completed in November of 1993. An additional eight (8) gas monitoring wells were installed in August of 1996.

Methane Migration and Monitoring Wells

In response to ongoing methane violations, the department required Scott County Sanitary Landfill to address methane gas migration in the Consent Judgment and Order of Injunction in September of 1987, Case No. CV387-498-CC, section 4E. The injunction required the Scott County Sanitary Landfill to address implementation of a methane monitoring program and to safely control methane migration during the post-closure period of the landfill. Scott County Landfill has since installed a network of gas monitoring wells and a passive landfill gas extraction system to vent methane gas from the landfill.

However, despite these efforts taken by the Scott County Landfill, at least one of the sixteen gas monitoring wells continues to experience methane levels above the regulatory limit. A map showing the location of the gas monitoring wells is attached.

Summary of Recent Activity at Site

In response to the Notice of Violation issued July 2011, Scott County and Mr. and Mrs. Moore will notify the local fire department and property owners in a notification area of 1,000 feet from the wells with elevated methane levels. Scott County and Mr. & Mrs. Moore are also offering to conduct monitoring inside buildings and provide methane detectors for those who desire these

safety precautions within the notification area. Scott County and Mr. and Mrs. Moore will continue to conduct semi-annual checks of the structures and replace batteries in methane detectors.

If a property owner receives a notification letter from a landfill, they are being sent the letter as a precautionary measure to ensure they are aware of the potential for landfill gas migration in the area. Landfill gas is a term for a mixture of gases generated during the decomposition of waste at a landfill and includes methane (CH₄), carbon dioxide (CO₂) and trace constituents of many other contaminants. The migration of methane from a landfill is a concern because methane is explosive within a certain range of concentrations. Methane is a colorless and odorless gas. The Department encourages property owners or tenants to be aware of the potential for methane migration in the area.

The Department's Solid Waste Management Program will continue working with Scott County Sanitary Landfill to develop and implement a remedial system that reduces methane concentrations in monitoring wells at the property boundary and controls it on-site.

For More Information

Scott County Commission
The Honorable Jamie Burger
Presiding Commissioner
573-545-3549

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Department of Natural Resources
Solid Waste Management Program
(573) 751-5401 or 800-361-4827
www.dnr.mo.gov/env/swmp/methane.htm