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# Lemons Landfill

## Information Sheet

March 2015

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### **History**

The Lemons Landfill was permitted on Dec. 4, 1992, under permit number 0120708. The facility applied for and received a horizontal expansion on Jan. 12, 2010, under permit number 0120710. The landfill is approximately 106.6 acres in size and currently has 64.5 acres of waste in place. The facility is owned by Lemons Landfill, LLC.

In November 1993, gas monitoring probes (GMP-1 through GMP-7) were installed at the landfill. The approval of the horizontal expansion, on Jan. 12, 2010, required the landfill to update their Gas Monitoring Plan, and Republic Services, Inc. constructed gas monitoring wells, GMP-15 through GMP-25, in July 2010; GMP-6 & -7 were previously constructed within the footprint of the horizontal expansion and then were abandoned. Gas monitoring wells, GMP-6 through GMP-14, were constructed in October 2011. On Oct. 3, 2014, Lemons notified the SWMP that GMP-14 had been buried in a landslide during a heavy rain event. This monitoring well is scheduled to be replaced in September 2015.

### **Methane Migration and Monitoring Wells**

On Oct. 28, 2014, the department's Solid Waste Management Program (SWMP) received notification from Lemons Landfill, LLC that gas monitoring well GMP-03 contained methane above 2.5% by volume and later on Nov. 20, 2014, found that GMP-23 also contained methane above 2.5% by volume. On Nov. 10, 2014, Lemons submitted a corrective action plan to address the methane migration which included documentation that adjacent property owners had been notified of the exceedance. The department issued the Lemons Landfill a notice of violation on March 6, 2015, and referred the landfill to the SWMP's Compliance/Enforcement Section to address the violation.

### **Summary of Recent Activity at Site**

In response to the detection of methane gas in perimeter gas monitoring wells, Lemons Landfill, LLC notified the City of Dexter Fire Department and the City of Dexter Water Department on Nov. 5 and Nov. 7, 2014, respectively. Occupants of structures and property owners within 1,000 feet of the impacted gas probes were also notified of the out of compliance wells and potential for methane to migrate off-site. Lemons Landfill provided methane detectors to residences located within 1,000 feet of the impacted gas probes, and the facility conducted additional gas monitoring at these residences when they were granted access.

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 (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>), 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 itself is a colorless, odorless gas, while the trace constituents can cause the landfill gas to have a characteristic odor. The department encourages property owners or tenants to be aware of the potential for methane migration in the area.

The department's SWMP will continue working with Lemons Landfill, LLC to develop and implement corrective actions to reduce methane concentrations in monitoring wells at the property boundary and control it on-site.

For more information:

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[www.dnr.mo.gov/env/swmp/methane.htm](http://www.dnr.mo.gov/env/swmp/methane.htm)