



**MISSOURI**  
**DEPARTMENT OF**  
**NATURAL RESOURCES**

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## **Valley Disposal Division Sanitary Landfill Information Sheet**

February 16, 2010

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### **History**

Valley Disposal Division Sanitary Landfill, or Valley, was permitted in 1974 under permit number 109902. The landfill ceased accepting waste in 1976 and is approximately 5 acres in size. The facility is owned by Valley Disposal Company, Inc. At the time the original landfill design was approved in 1974, gas monitoring wells were not required and automatically installed at landfills, but were installed only when violations or problems occurred. A compliance agreement between Valley and the department resulted in gas monitoring wells being installed in 2000. Valley currently has eight methane monitoring wells installed on-site.

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

In response to methane violations documented at the landfill, the department issued Valley a notice of violation, or NOV, on Jan. 20. The NOV required Valley to notify the local fire department and all properties within 1,000 feet of any monitoring wells exceeding the regulatory limit about the potential for methane migration. During the Feb. 11, methane monitoring event, these gas monitoring wells exceeded the regulatory limit for methane in the soil at the property boundary: GP-1, GP-2A, GP-5, GP-6 and GP-7. A map is attached that indicates the location of the gas monitoring wells. Valley samples all gas monitoring wells on a weekly basis.

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

In response to the NOV issued Jan. 20, Valley's consultant called the local fire department and sent notification letters to both the fire department and property owners within the 1,000 foot notification area. Valley is also offering to conduct monitoring inside buildings to those who desire this safety precaution.

If a property owner receives a notification letter, they are being sent the letter as a precautionary measure to ensure they are aware of the potential for gas migration in the area. Landfill gas is a mixture of gases, including methane (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>) and trace constituents of many other contaminants. Methane is a colorless, odorless gas, however, the trace constituents are what causes the landfill gas to have its characteristic odor. One of the constituents is hydrogen sulfide which emits a strong, sour "rotten-egg" odor often compared to the mercaptans added to natural gas. If a property owner smells an unusual odor at or around their house or other enclosed structures, they should call 911 to have the odor investigated.

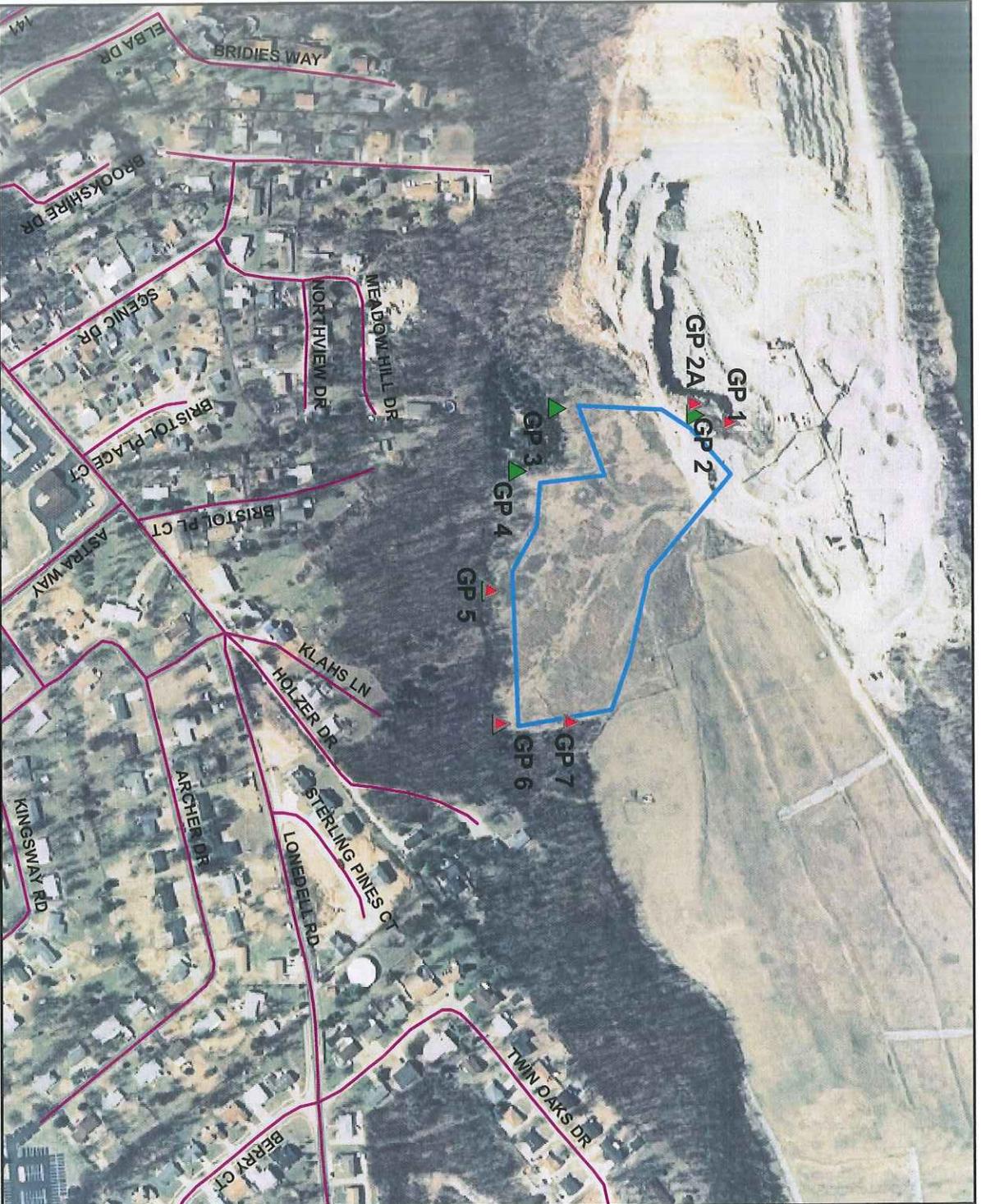
Valley's consultants are in the process of editing a previously-submitted corrective action proposal to address the methane migration. Valley has until the end of March to submit this proposal. The department's Solid Waste Management Program will continue working with Valley to develop and implement a remedial system to reduce methane concentrations in monitoring wells at the property boundary and control the gas by containing it on-site.

**For More Information**

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

# Valley Disposal Division Sanitary Landfill Gas Monitoring Wells



- Legend:**
- | Approximate Limit of Waste
  - ▲ Gas Monitoring well containing >2.5% methane on 2/11/10
  - ▲ Gas Monitoring well containing <2.5% methane on 2/11/10



Missouri Department of Natural Resources  
Division of Environmental Quality  
Solid Waste Management Program



Last Revision 2/16/10 DFN

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