



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

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FEB 13 2015

CERTIFIED MAIL # 7009 3410 0001 9190 7939
RETURN RECEIPT REQUESTED

Mr. Brian J. Power
Environmental Manager
Bridgeton Landfill, LLC
13570 St. Charles Rock Road
Bridgeton, MO 63044-2430

RE: Bridgeton Sanitary Landfill, Permit Number 0118912, Subsurface Fire

Notice of Violation # 30451

Dear Mr. Power:

The Missouri Department of Natural Resources continues to review data submitted regarding the ongoing conditions at the Bridgeton Sanitary Landfill. This data, in addition to information obtained at meetings and observations of the landfill property, demonstrates that the landfill continues to experience a subsurface fire. Due to the ongoing nature and intensifying conditions at the landfill, the Department is formally documenting with this Notice of Violation letter these events and other related violations. Individual violations are discussed in more detail below:

Missouri Solid Waste Management Law

1. Section 260.210.1(4) of the Revised Statutes of Missouri (RSMo) prohibits the storage or disposal of solid waste in a manner that creates a public nuisance or adversely affects public health. Through the month of January 2015, and continuing to the present date, a subsurface fire has been occurring and the landfill owner/operator has failed to control and extinguish the subsurface fire which has been allowed to expand, at least, within the South Quarry of the landfill. The subsurface fire has created odors which continue to migrate offsite and have resulted in numerous odor complaints received by the Department. Further, offsite monitoring conducted by the Department has documented odors attributable to Bridgeton Sanitary Landfill at several established offsite monitoring locations on a routine basis.

2. 10 CSR 80-2.020(1)(F) requires that the operation of solid waste disposal areas comply with the terms and conditions set forth in the permit to prevent or minimize potential health hazards or conditions that could create a public nuisance or environmental pollution. Through the month of January 2015, and continuing to the present date, a subsurface fire has been occurring and the landfill owner/operator has failed to control and extinguish the subsurface fire which has been allowed to expand within, at least, the South Quarry of the landfill. Permit #118912 does not allow for solid waste to be burned. The subsurface fire has created conditions that have and continue to damage the environmental control systems infrastructure at the landfill, including the leachate collection system and the gas collection and control system allowing for uncontrolled emissions, including odor, from the facility that extend beyond the permitted boundary of the facility into the surrounding communities.

Condition 6D of Permit #118912 requires that leachate levels in the leachate collection sumps located in the South Quarry not exceed 30 feet from the landfill's bottom and not exceed 50 feet from the landfill's bottom in the North Quarry. Through the month of January 2015, liquid levels in LCS-1D, LCS-2D, LCS-3D, and LCS-4B have either exceeded these levels due to pump failures or the sump monitoring systems have failed due to excess temperature and pressure. As a result of these operational issues, the facility has been unable to demonstrate compliance.

3. 10 CSR 80-3.010(5)(C)1 requires that the landfill be constructed and operated in accordance with the approved plans and specifications. Through the month of January 2015, and continuing to the present date, a subsurface fire has been occurring and the landfill owner/operator has failed to control and extinguish the subsurface fire which has been allowed to expand within, at least, the South Quarry of the landfill. Further, 10 CSR 80-3.010(9)(C)1 requires that the leachate collection system be properly installed, operated and maintained per the permit and approved plans. Specifically, such operation of a leachate collection system is to limit spills, breaks, releases, and discharges off-site, minimizing pollution of groundwater, surface waters and soil.
4. 10 CSR 80-3.010(13)(C) prohibits the burning of solid waste at a sanitary landfill, except in accordance with Chapter 643 RSMo, its corresponding rules, the terms, conditions, or both, of the plans, permit, or both, and all local requirements. Further, Section 260.210.1.(3) prohibits solid waste burning operations in violation of the rules and regulations of the Missouri Air Conservation Commission or the Department. Through the month of January 2015, and continuing to the present date, a subsurface fire has resulted in solid waste being burned in, at least, the South Quarry of the landfill. As a result of the solid waste burning, there have been odors/emissions documented leaving the property boundary. Additionally, significant settlement has been observed in the South Quarry. The amount and duration of the settlement indicates that a significant amount of waste has been and continues to be consumed by the subsurface fire.

5. 10 CSR 80-3.010(14)(C)2 prohibits methane from exceeding two and one half percent (2.5%) by volume in the soil at the property boundary. Further, 10 CSR 80-3.010(14)(C)1 prohibits decomposition gases from migrating laterally from the landfill. In the month of January 2015, weekly monitoring data submitted by Bridgeton Sanitary Landfill shows decomposition gases in the following gas monitoring/compliance wells or probes at/beyond the property boundary have contained methane gas above the regulatory limit: GMP-01, GMP-02, GMP-03, GMP-4S, GMP-5S, GMP -6S, GMP-09, and GMP-14D.
6. 10 CSR 80-3.010(19)(A) requires that sanitary landfills be operated in a manner which protects the health and safety of personnel and others associated with and affected by its operation. Through the month of January 2015, and continuing to the present date, a subsurface fire has been occurring and the landfill owner/operator has failed to control and extinguish the subsurface fire which has been allowed to expand within, at least, the South Quarry of the landfill. Due to the subsurface fire, several hazards exist and have been documented, on an on-going or periodic basis, at the site including, but not limited to, odors/emissions, elevated carbon monoxide, benzene and hydrogen levels, excessive heat and pressure, steam releases, leachate outbreaks and spills, and collapse potential from waste mass reduction at or in proximity to the subsurface fire impacted areas.

Air Conservation Law

1. 10 CSR 10-6.165 requires that “no person shall cause, permit, or allow emissions of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one (1) volume of odorous air is diluted with seven (7) volumes of odor-free air for two (2) separate trials not less than 15 minutes apart within the period of one (1) hour.” Through the month of January 2015, the Department has documented exceedances of the 7:1 Dilution-to-Threshold (D/L) ratio on two (2) monitoring events within one (1) hour.
2. 10 CSR 10-6.060(5)(B)3. states “Net emissions do not increase above the de minimis levels at an installation having a de minimis permit under this section. If net emissions at the installation do increase above the de minimis levels, the installation shall be in violation of this rule until it obtains a permit under the other applicable requirements of this rule.” The Bridgeton Sanitary Landfill applied for and received Construction Permits and an Operating Permit which, based upon the available data as submitted, predicted that emissions of Sulfur Dioxide (SO₂) would be less than de minimis levels as defined in 10 CSR 10-6.020 and, therefore, in compliance with 10 CSR 10-6.260. On August 26, 2014, the St. Louis County Department of Health’s Air Pollution Control Program (STLCO) received verbal notification that testing had documented that the landfill may have actual and potential emissions at greater than major source levels for SO₂. STLCO received additional information on September 9, 2014, that indicated that further testing and analyses continued to show that emissions of SO₂ exceed levels as considered in the landfill’s permits.

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Additional documentation may confirm further violations of 10 CSR 10-6.060 and 10-6.260, which will be noted in a future NOV.

Missouri Clean Water Law

1. Sections 644.051.1(3) and 644.076.1, RSMo, make it unlawful for any person to discharge any water contaminants into waters of the state which exceed effluent regulations or permit provisions as established by the Missouri Clean Water Commission. Stormwater discharges from the landfill have exceeded effluent limitations established in MSOP number MO-0112771 for Iron at outfall 004, 005 and 007; Oil and Grease at outfall 004 and 007; and Total Suspended Solids at outfall 004 and 007 on November 24, 2014 for the 4th quarter Discharge Monitoring Report (DMR) ending December 2014.

Should you have any questions concerning this Notice of Violation, please contact me at Missouri Department of Natural Resources, P.O. Box 176, Jefferson City, MO 65102-0176, (573) 751-0763 or aaron.schmidt@dnr.mo.gov. Thank you.

Sincerely,

DIVISION OF ENVIRONMENTAL QUALITY



Aaron Schmidt
Deputy Director

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Enclosure

- c:
- Mr. Jim Teter, Republic Services, Inc.
 - Ms. Jessie Merrigan, Lathrop & Gage
 - Mr. John Haasis, St. Louis County Department of Health, Solid Waste Management Program
 - Ms. Kathrina Donegan, St. Louis County Department of Health, Air Program
 - Mr. Tom Phillips, Assistant Attorney General
 - Mr. Chris Nagel, Solid Waste Management Program
 - Mr. David Lamb, Hazardous Waste Program
 - Ms. Kyra Moore, Air Pollution Control Program
 - Mr. John Madras, Water Protection Program
 - St. Louis Regional Office via Shared Electronic Files