

MISSOURI DEPARTMENT OF NATURAL RESOURCES
REVIEW OF REPUBLIC SERVICES' MAY 20, 2013 BRIDGETON LANDFILL MONTHLY REPORT

Department of Natural Resources and its technical contractor reviewed Republic Services first monthly Bridgeton landfill reporting package required by the First Agreed Order. Department staff and its technical consulting experts have been evaluating this extensive data package as well as the weekly data packages during this timeframe. The reporting period contained in the monthly data package encompasses a period of time in which the previously installed gas interceptor wells were first made operational.

The department's review focused on the data collected in the landfill area associated with these gas interceptor wells. As part of this review, it is important to note that any determination always needs to take into account all available data and not just one indicator. The data that is part of this evaluation includes the following:

- Temperature Data (both well head and temperature monitoring probe);
- Carbon Monoxide gas data;
- Hydrogen gas data;
- Gas Pressure;
- Odors (variations, intensity);
- Leachate composition and movement; and
- Surface Ground Settlement.

Based upon an overall review of these factors, the department's technical staff and its consulting experts find no reason to conclude the interceptor wells have failed. As expected, temperature data from a line of temperature monitoring probes (TMP-1 through TMP-4) installed north of the interceptor line does indicate the heat front of the reaction has moved into the neck, but does not appear to be advancing. The smoldering reaction event appears to have reached the interceptor lines, which is also consistent with the expectations of its design. Continuing to evaluate this system on a weekly basis will be a primary focus of department staff and to ensure the continued control of the smoldering event. The department has requested additional carbon monoxide gas data further north of the interceptor wells to confirm these findings and that information will be posted to the website upon receipt.

In accordance with the First Agreed Order, the department and the Attorney General's Office are currently requiring Republic Services to submit the contingency plans contained therein. This includes the North Quarry Contingency Plan Part 1, which will detail the contingent installation of additional engineered interceptor lines, temperature monitoring probes, and continuation of the geomembrane cap that is currently in the process of being installed on the south quarry. Part 2 of this contingency plan

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also requires the submittal of final design plans for an isolation break physical barrier between the north quarry and West Lake Landfill Site Operable Unit-1 Area 1.

The Part 1 contingency plan is due to the Attorney General and the department on June 27 and the Part 2 designs are due on July 27. It should be noted that these plans are contingencies, meaning they will only be implemented if data collection indicates clear movement of the smoldering event and such contingencies are required to prevent movement of the smolder into the north quarry. All weekly and monthly data packages utilized in this on-going evaluation will continue to be posted to this website throughout this process