



**Missouri
Department of
Natural Resources**

Health Profiles for Hazardous Waste Treatment or Disposal Facility Applications

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Permits Section

Missouri Regulations

- ☛ 260.395.7(5) RSMo – Health profiles are required to be submitted with the permit application for a hazardous waste disposal or treatment facility.
- ☛ 10 CSR 25-7.264(2)(P) – Health profiles “shall include efforts to identify any serious illnesses, the rate of which exceeds the state average for the illnesses, which might be attributable to environmental contamination.”

Facilities Requiring Health Profiles

☛ There are currently:

- 4 incinerators
- 3 cement kilns
- 1 (soon to be 2) operating hazardous waste landfills (monofills for treated secondary slag)
- 3 miscellaneous treatment facilities (drum crusher, pug mill, blending of fuel, etc.)

Background

☛ Missouri Department of Health and Senior Services

- reviewing and approving health profiles
- met with DNR to review value of health profiles
 - cost and effort versus valid/valuable results

☛ Department of Health and Senior Services staff do not believe health profiles, as written according to statute and regulation, achieve goal originally envisioned by legislature

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Missouri Department of Health
and Senior Services

Issues with Current Health Profiles

- ☛ Do not accurately determine possibly exposed population
- ☛ Due to small numbers of those persons, adequate statistical analysis of the few elevated cases of illnesses versus the population presently used in health profiles as “exposed” is difficult, if not impossible, to achieve

Issues with Current Health Profiles

- ☛ Lack of actual measurement of emission levels in areas surrounding facilities is too blunt an instrument to accurately choose population to base the health profile
- ☛ Extremely low probability of most chemicals used at the facilities actually causing an illness
 - Cannot determine if any illness caused by facility versus some other unrelated exposure, or from chance alone

Issues with Current Health Profiles

- ✎ Present process inherently flawed
 - low population number versus larger population number

Where Do We Go From Here?

- DNR and Department of Health and Senior Services will discuss issues further to see how to proceed with health profiles