

7037.1800 PETROLEUM LOADING LIMITATIONS.

Subpart 1. **In general.** The loading of petroleum contaminated soil on a native soil may not exceed a spreading thickness of four inches, or 540 cubic yards per acre. Subparts 2 to 5 provide the maximum amounts of petroleum contaminated soil that may be spread based on the following factors: the type of petroleum released; the contaminant level of the petroleum contaminated soil; and the treatment zone characteristics under part 7037.1000, subpart 5, item A. If a batch of petroleum contaminated soil contains gasoline and a petroleum type other than gasoline then the more stringent of the requirements of subpart 2 or 3 must be followed.

Subp. 2. **Gasoline contaminated soil.** The following table lists the maximum allowable levels of gasoline contamination in petroleum contaminated soil which may be spread at a land treatment site at a spreading thickness of four inches.

| Average total petroleum hydrocarbons as gasoline (parts per million) | | | | |
|---|-----------------------------------|--|-------|-------|
| Minimum organic matter (percentage) | Permeability (inches per hour) | Minimum thickness of suitable soil within treatment zone (feet) | | |
| | | 2 | 3 | 4 |
| 2 | less than 6 | NA | NA | 1,000 |
| | less than 0.6 | NA | 1,000 | 2,500 |
| 4 | less than 6 | NA | 1,000 | 2,500 |
| | less than 0.6 | 1,000 | 2,500 | 5,000 |

In this table "NA" means that petroleum contaminated soil may not be spread under the specified conditions. "Minimum thickness of suitable soil" means the total soil thickness within the treatment zone having a permeability as listed in this table. Petroleum concentrations are based on average total petroleum hydrocarbon concentration in the soil determined by the sampling and analysis procedures of part 7037.0500, subparts 1 and 2.

Subp. 3. **Contaminated soil characterized as fuel oil.** Where the contamination is characterized as total petroleum hydrocarbons as fuel oil, the following table lists the maximum allowable levels of contamination in petroleum contaminated soil which may be spread at a land treatment site at a spreading thickness of four inches.

| Average total petroleum hydrocarbons as fuel oil (parts per million) | | |
|---|-----------------------------------|--|
| Minimum organic matter (percentage) | Permeability (inches per hour) | Minimum thickness of suitable soil within treatment zone (feet) |
| | | |

| | | 2 | 3 | 4 |
|---|---------------|-------|-------|--------|
| 2 | 0.6 to 6 | NA | NA | 2,000 |
| | less than 0.6 | NA | 2,000 | 5,000 |
| 4 | 0.6 to 6 | NA | 2,000 | 5,000 |
| | less than 0.6 | 2,000 | 5,000 | 10,000 |

In this table "NA" means that petroleum contaminated soil may not spread under the specified conditions. "Minimum thickness of suitable soil" means the total soil thickness within the treatment zone having a permeability as listed in this table. Petroleum concentrations are based on average total petroleum hydrocarbon concentration in the soil determined by the sampling and analysis procedures of part 7037.0500, subparts 1 and 2.

Subp. 4. **Spreading thickness adjustments.** Petroleum contaminated soil with contaminant levels that exceed the listed levels in subparts 2 and 3 may be spread if done at thinner spreading thicknesses which result in an equivalent or a lower petroleum loading level than those listed in the table. To determine the acceptable spreading thicknesses for petroleum contaminated soil that exceeds the listed levels in subparts 2 and 3, part 7037.3500 must be used.

Subp. 5. **Petroleum contaminated soil containing lead.** Petroleum contaminated soil with a total lead level greater than 300 parts per million must be spread at a thickness that assures lead levels in the mixture of petroleum contaminated soil and native soil after incorporation to be below 300 parts per million. To determine final projected lead levels in the mixture of soil, prior to soil spreading the owner or operator shall collect a composite soil sample of the upper eight inches of the native soil as described in part 7037.3200, subpart 1, and analyze the sample for total lead as described in part 7037.3100, subpart 1.

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