(4) Practicable capability of the owner or operator, including consideration of the technical and economic capability.

(5) The degree to which community concerns are addressed by a potential remedy(s).

(d) The owner or operator shall specify as part of the selected remedy a schedule(s) for initiating and completing remedial activities. Such a schedule must require the initiation of remedial activities within a reasonable period of time taking into consideration the factors set forth in paragraphs (d)(1) through (d)(8) of this section. The owner or operator must consider the following factors in determining the schedule of remedial activities:

(1) Extent and nature of contamination;

(2) Practical capabilities of remedial technologies in achieving compliance with ground-water protection standards established under §§257.25 (g) or (h) and other objectives of the remedy;

(3) Availability of treatment or disposal capacity for wastes managed during implementation of the remedy;

(4) Desirability of utilizing technologies that are not currently available, but which may offer significant advantages over already available technologies in terms of effectiveness, reliability, safety, or ability to achieve remedial objectives;

(5) Potential risks to human health and the environment from exposure to contamination prior to completion of the remedy;

(6) Resource value of the aquifer including:

(i) Current and future uses;

(ii) Proximity and withdrawal rate of users;

(iii) Ground-water quantity and quality;

(iv) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituent;

(v) The hydrogeologic characteristic of the unit and surrounding land;

(vi) Ground-water removal and treatment costs; and

(vii) The cost and availability of alternative water supplies.

(7) Practicable capability of the owner or operator.

(8) Other relevant factors.

(e) The Director of an approved State may determine that remediation of a release of an appendix II (appendix II of 40 CFR part 258) constituent from the unit is not necessary if the owner or operator demonstrates to the Director of the approved state that:

(1) The ground-water is additionally contaminated by substances that have originated from a source other than the unit and those substances are present in concentrations such that cleanup of the release from the unit would provide no significant reduction in risk to actual or potential receptors; or

(2) The constituent(s) is present in ground water that:

(i) Is not currently or reasonably expected to be a source of drinking water; and

(ii) Is not hydraulically connected with waters to which the hazardous constituents are migrating or are likely to migrate in a concentration(s) that would exceed the ground-water protection standards established under §257.25 (h) or (i); or

(3) Remediation of the release(s) is technically impracticable; or

(4) Remediation results in unacceptable cross-media impacts.

(f) A determination by the Director of an approved State pursuant to paragraph (e) of this section shall not affect the authority of the State to require the owner or operator to undertake source control measures or other measures that may be necessary to eliminate or minimize further releases to the ground-water, to prevent exposure to the ground-water, or to remediate the ground-water to concentrations that are technically practicable and significantly reduce threats to human health or the environment.

§ 257.28 Implementation of the corrective action program.

(a) Based on the schedule established under §257.27(d) for initiation and completion of remedial activities the owner/operator must:

(1) Establish and implement a corrective action ground-water monitoring program that:
§ 257.28  
(i) At a minimum, meets the requirements of an assessment monitoring program under § 257.25;  
(ii) Indicates the effectiveness of the corrective action remedy; and  
(iii) Demonstrates compliance with ground-water protection standard pursuant to paragraph (e) of this section.  
(2) Implement the corrective action remedy selected under § 257.27; and  
(3) Take any interim measures necessary to ensure the protection of human health and the environment. Interim measures should, to the greatest extent practicable, be consistent with the objectives of and contribute to the performance of any remedy that may be required pursuant to § 257.27. The following factors must be considered by an owner or operator in determining whether interim measures are necessary:  
(i) Time required to develop and implement a final remedy;  
(ii) Actual or potential exposure of nearby populations or environmental receptors to hazardous constituents;  
(iii) Actual or potential contamination of drinking water supplies or sensitive ecosystems;  
(iv) Further degradation of the ground-water that may occur if remedial action is not initiated expeditiously;  
(v) Weather conditions that may cause hazardous constituents to migrate or be released;  
(vi) Risks of fire or explosion, or potential for exposure to hazardous constituents as a result of an accident or failure of a container or handling system; and  
(vii) Other situations that may pose threats to human health and the environment.  
(b) An owner or operator may determine, based on information developed after implementation of the remedy has begun or other information, that compliance with requirements of § 257.27(b) are not being achieved through the remedy selected. In such cases, the owner or operator may implement other methods or techniques that could practically achieve compliance with the requirements, unless the owner or operator makes the determination under § 257.28(c).  
(c) If the owner or operator determines that compliance with requirements under § 257.27(b) cannot be practically achieved with any currently available methods, the owner or operator must:  
(1) Obtain certification of a qualified ground-water scientist or approval by the Director of an approved State that compliance with requirements under § 257.27(b) cannot be practically achieved with any currently available methods;  
(2) Implement alternate measures to control exposure of humans or the environment to residual contamination, as necessary to protect human health and the environment; and  
(3) Implement alternate measures for control of the sources of contamination, or for removal or decontamination of equipment, units, devices, or structures that are:  
(i) Technically practicable; and  
(ii) Consistent with the overall objective of the remedy.  
(d) All solid wastes that are managed pursuant to a remedy required under § 257.27, or an interim measure required under § 257.28(a)(3), shall be managed in a manner:  
(1) That is protective of human health and the environment; and  
(2) That complies with applicable RCRA requirements.  
(e) Remedies selected pursuant to § 257.27 shall be considered complete when:  
(1) The owner or operator complies with the ground-water protection standards established under §§ 257.25(h) or (i) at all points within the plume of contamination that lie beyond the ground-water monitoring well system established under § 257.22(a).  
(2) Compliance with the ground-water protection standards established under §§ 257.25(h) or (i) has been achieved by demonstrating that concentrations of appendix II (appendix II of Part 258) constituents have not exceeded the ground-water protection standard(s) for a period of three consecutive years using the statistical procedures and
Environmental Protection Agency

Performance standards in § 257.23 (g) and (h). The Director of an approved State may specify an alternative length of time during which the owner or operator must demonstrate that concentrations of appendix II (appendix II of 40 CFR part 258) constituents have not exceeded the ground-water protection standard(s) taking into consideration:

(i) Extent and concentration of the release(s);
(ii) Behavior characteristics of the hazardous constituents in the ground-water;
(iii) Accuracy of monitoring or modeling techniques, including any seasonal, meteorological, or other environmental variabilities that may affect the accuracy; and
(iv) Characteristics of the ground-water.

(3) All actions required to complete the remedy have been satisfied.

(f) Upon completion of the remedy, the owner or operator must notify the State Director within 14 days that a certification that the remedy has been completed in compliance with the requirements of § 257.28(e) has been placed in the operating record. The certification must be signed by the owner or operator and by a qualified ground-water scientist or approved by the Director of an approved State.

§ 257.29 [Reserved]

RECORDKEEPING REQUIREMENTS

§ 257.30 Recordkeeping requirements.

(a) The owner/operator of a non-municipal non-hazardous waste disposal unit must record and retain near the facility in an operating record or in an alternative location approved by the Director of an approved State the following information as it becomes available:

(1) Any location restriction demonstration required under §§257.7 through 257.12; and

(2) Any demonstration, certification, finding, monitoring, testing, or analytical data required in §§257.21 through 257.28.

(b) The owner/operator must notify the State Director when the documents from paragraph (a) of this section have been placed or added to the operating record, and all information contained in the operating record must be furnished upon request to the State Director or be made available at all reasonable times for inspection by the State Director.

(c) The Director of an approved State can set alternative schedules for recordkeeping and notification requirements as specified in paragraphs (a) and (b) of this section, except for the notification requirements in §257.25(g)(1)(ii).

(d) The Director of an approved state program may receive electronic documents only if the state program includes the requirements of 40 CFR Part 3—(Electronic reporting).


APPENDIX I TO PART 257—MAXIMUM CONTAMINANT LEVELS (MCLs) PRO-MULGATED UNDER THE SAFE DRINKING WATER ACT

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>MCL (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>7440–38–2</td>
<td>0.05</td>
</tr>
<tr>
<td>Barium</td>
<td>7440–39–3</td>
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</tr>
<tr>
<td>Benzene</td>
<td>71–343–2</td>
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</tr>
<tr>
<td>Cadmium</td>
<td>7440–43–9</td>
<td>0.01</td>
</tr>
<tr>
<td>Carbon tetrachloride</td>
<td>56–23–5</td>
<td>0.005</td>
</tr>
<tr>
<td>Chromium (hexavalent)</td>
<td>7440–47–3</td>
<td>0.05</td>
</tr>
<tr>
<td>2,4-Dichlorophenoxy acetic acid</td>
<td>94–75–7</td>
<td>0.1</td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td>106–46–7</td>
<td>0.075</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>107–06–2</td>
<td>0.005</td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
<td>75–35–4</td>
<td>0.007</td>
</tr>
<tr>
<td>Endrin</td>
<td>75–29–8</td>
<td>0.0002</td>
</tr>
<tr>
<td>Fluoride</td>
<td>7</td>
<td>4.0</td>
</tr>
<tr>
<td>Lindane</td>
<td>58–89–9</td>
<td>0.004</td>
</tr>
<tr>
<td>Lead</td>
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</tr>
<tr>
<td>Mercury</td>
<td>7439–97–6</td>
<td>0.002</td>
</tr>
<tr>
<td>Methoxychlor</td>
<td>72–43–5</td>
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<tr>
<td>Nitrate</td>
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<tr>
<td>Selenium</td>
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</tr>
<tr>
<td>Silver</td>
<td>7440–22–4</td>
<td>0.05</td>
</tr>
<tr>
<td>Toxaphene</td>
<td>8001–35–2</td>
<td>0.005</td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>71–55–6</td>
<td>0.2</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>79–01–6</td>
<td>0.005</td>
</tr>
<tr>
<td>2,4,5-Trichlorophenoxy acetic acid</td>
<td>93–76–5</td>
<td>0.01</td>
</tr>
<tr>
<td>Vinyl chloride</td>
<td>75–01–4</td>
<td>0.002</td>
</tr>
</tbody>
</table>

[56 FR 51016, Oct. 9, 1991]

APPENDIX II TO PART 257

A. Processes To Significantly Reduce Pathogens

Aerobic digestion: The process is conducted by agitating sludge with air or oxygen to maintain aerobic conditions at residence times ranging from 60 days at 15 °C to 40 days at 20 °C, with a volatile solids reduction of at least 38 percent.