



Revised 2-16-2006

Stabilization Pond Checklist

(General Checklist must also be completed)

PROJECT
NAME: _____

Check each item that is included with your submittal. If an item is not included, check “not included” and provide and explanation why the item does not apply to this project or describe special circumstances why the information is not included.

INCLUDED	NOT INCLUDED	SUBMITTAL ITEM
<input type="checkbox"/>	<input type="checkbox"/>	1. A soil report containing or verifying the following: Separation distance between lowest part of a percolating pond and the seasonal high groundwater table is at least 4 feet. (include method of determining this distance)
<input type="checkbox"/>	<input type="checkbox"/>	Separation distance between lowest part of a percolating pond and impermeable layer is shown to be at least 6 feet. (include method of determining this distance).
<input type="checkbox"/>	<input type="checkbox"/>	Subsurface soil and groundwater conditions and levels including soil types, density, and depth to seeps in written form and/or shown on testhole logs.
<input type="checkbox"/>	<input type="checkbox"/>	In areas of permafrost, test holes at least 20 feet below surface or to the depth at which permafrost or impermeable layer is encountered.
<input type="checkbox"/>	<input type="checkbox"/>	In areas of permafrost, soil moisture profile analyses from a laboratory that show soils in the wastewater treatment area are suitable for a percolation pond.
<input type="checkbox"/>	<input type="checkbox"/>	Results/conclusions/recommendations of a geotechnical study clearly shows that the area can be used for proposed system.
<input type="checkbox"/>	<input type="checkbox"/>	For a non-percolating pond, effects of ground water and ground water level fluctuations on the liner/seal.
		18 AAC 72.255(5), 18 AAC 72.265(2)-(5), (10)
		<u>Explanation if not included:</u>

INCLUDED	NOT INCLUDED	SUBMITTAL ITEM
<input type="checkbox"/>	<input type="checkbox"/>	2. Specifications for: Fill, backfill and berm construction material and placement.
<input type="checkbox"/>	<input type="checkbox"/>	Pressure testing, method for testing completed piping. <u>Explanation if not included:</u>
<input type="checkbox"/>	<input type="checkbox"/>	3. For a percolating stabilization pond, the following calculations and design information. 18 AAC 72.255 (10) Site Specific hydrogeology data that predicts the expected flow path of the percolating effluent into the soils and expected impacts that the proposed system will have on adjacent properties. Existing drainage conflicts, steep slopes or river banks that may allow short circuiting into a local surface drainage. (Where it will better illustrate soil loadings, a drawing with the hydraulic grade lines showing the flow path can be included.) Human activities that may conflict with the proposed system, such as boating, shellfish harvesting, or recreation activities. Field testing results and calculations of soils to that support design hydraulic loading rates. Calculations justifying that the allowable sustained loading rate of the receiving soils is sufficient to handle the expected flows. For systems with an average daily flow over 2,500 gallons per day, nitrate calculations estimating the effect of this discharge on ground water quality at a determined point such as the nearest down gradient property line, or a point not exceeding 500 feet from the edge of the stabilization pond, whichever is least. (see 18 AAC 72.260(a)(5) for specific requirements and see 18 AAC 72.070(9), (11) and (14) for acceptable modeling methods. Hydrogeologic data assuring existing public or private drinking water sources will not be adversely impacted. 18 AAC 72.255 <u>Explanation if not included:</u>

INCLUDED	NOT INCLUDED	SUBMITTAL ITEM
<input type="checkbox"/>	<input type="checkbox"/>	<p>4. For discharges to the surface of the land from a stabilization pond:</p> <p><input type="checkbox"/> A written agreement from the owner for this use or documentation that the applicant owns the land.</p> <p><input type="checkbox"/> Details showing how land used for discharge and treatment area is protected from public access.</p> <p><input type="checkbox"/> Topography, hydrology and geology of the discharge area in sufficient detail to evaluate whether the proposed system is adequate to protect land uses and public health outside the disposal or treatment.</p> <p>18 AAC 72.275 (b)(5), (6), (7), (8)</p> <p><u>Explanation if not included:</u></p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>5. For discharges to surface waters, mixing zone calculations that demonstrate compliance with permit discharge requirements. 18 AAC 72.205 (d)</p> <p><u>Explanation if not included:</u></p>

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>6. Specific design criteria for:</p> <p>Current and future design population and the expected life for which the system is designed.</p> <p>Hydraulic and organic design loading and basis used for estimating loads.</p> <p>Sludge and screenings quantity and basis used for estimating quantities.</p> <p>Sludge and screenings disposal site.</p> <p>If project is phased, information on operation processes (how the system will work without other operating components that may be constructed in future phases)</p> <p><u>Explanation if not included:</u></p>
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<p>7. Verification that the pond is sited so that it is protected against flooding.</p> <p>100 year flood level shown on site plan. 18 AAC 72.255(a)(3)</p> <p><u>Explanation if not included:</u></p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>8. The design specifically addresses operational variables, such as :</p> <p>Icing and ice movement</p> <p>Water transfer between cells</p> <p>Seasonal loading (i.e. fish processors)</p> <p>Methods of sludge removal and disposal</p> <p>Operator access for maintenance and sampling</p> <p>Other conditions that would affect system operations.</p> <p>18 AAC 72.255 (a)(3)</p> <p><u>Explanation if not included:</u></p>

INCLUDED	NOT INCLUDED	SUBMITTAL ITEM
[]	[]	9. Detailed drawings (plan and cross section) of dike design, including construction materials, and specifications.
[]	[]	Calculations and insitu or laboratory test data that defines permeability of impoundment seal.
[]	[]	In permafrost areas, thermal protection to prevent differential settlements.
[]	[]	Dike stability and safety considerations. 18 AAC 72.255 (a)(3) <u>Explanation if not included:</u>

I submit the above information/items concerning this project. By my signature I certify that the above information is correct.

SIGNATURE of submitter

DATE