



Permit-to-Install/Plan Approval Application

Attachment VIII: Ponds

Pond Type (check one - if more than one type is proposed, submit a separate copy of this attachment for each type)			
<input type="checkbox"/> Controlled discharge facultative	<input type="checkbox"/> Equalization	<input type="checkbox"/> Flow through facultative	<input type="checkbox"/> Evaporation
<input type="checkbox"/> Aerated	<input type="checkbox"/> Sludge treatment	<input type="checkbox"/> Polishing	<input type="checkbox"/> Sludge storage

1. Pond Characteristics
Number of ponds ⁽¹⁾ : _____

2. Pond 1	New	Existing
a. Capacity (mgd)		
b. Surface area dimensions (feet)		
c. Detention time (hrs & min)		
d. Side water depth (feet)		
e. BOD ₅ loading rate (lb/acre/day)		
f. Minimum DO maintained (mg/l)		

3. Pond 2	New	Existing
a. Capacity (mgd)		
b. Surface area dimensions (feet)		
c. Detention time (hrs & min)		
d. Side water depth (feet)		
e. BOD ₅ loading rate (lb/acre/day)		
f. Minimum DO maintained (mg/l)		

4. Pond 3	New	Existing
a. Capacity (mgd)		
b. Surface area dimensions (feet)		
c. Detention time (hrs & min)		
d. Side water depth (feet)		
e. BOD ₅ loading rate (lb/acre/day)		
f. Minimum DO maintained (mg/l)		

(1): If more than three ponds are proposed, repeat page as needed.

5. Distance between bottom of ponds and maximum ground water elevation: _____ feet

6. Distance between bottom of ponds and bedrock formation: _____ feet

7. Is aeration provided to ponds? Yes No

If Yes, please state the aeration method:

8. Dike Construction

a. Soil type: _____ b. Compaction density: _____
c. Top width (feet): _____ d. Inner slope: _____
e. Outer slope: _____ f. Free board (feet): _____
g. Will borrow material be needed for construction? Yes No
h. Will anti-seep collars be used on all pipes that penetrate the dike? Yes No N/A

9. Ground Water Protection

a. Soil type⁽²⁾: _____
b. Compaction density⁽²⁾: _____
c. Liner Type: Synthetic Bentonite Clay Other: _____
d. Liner thickness: _____
e. Liner coefficient of permeability (cm/s): _____
f. Has a hydrogeological study been prepared for the pond/ponds site? Yes No
g. Has the hydrogeological study been approved by Ohio EPA, Division of Drinking and Ground Waters? Yes No
h. Will monitoring wells be installed around the pond/ponds site? Yes No

10. Erosion Control

Explain what method(s) will be used to control erosion:

(2): If the liner soil material is the same as the material used for the dike construction, please fill in "Same as above".