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## Iowa Department of Natural Resources Wastewater Section Construction Permit Application SCHEDULE K2, Aerated Pond

DNR USE ONLY Project No.

Permit No.

Date Prepared Project Identity					
Date Revised					
1. Design Basis ADW	AWW-30	MWW	PHV	VW	
Flow, MGD					
BOD ₅ , #/day					
2. Number of soil borings taken	Data include	d in the			
High groundwater elevation (MSL)	_				
3. Top of dike elevation (MSL)	ft. 100 year	flood elevation (	MSL)	ft.	
4. Pond Data	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Total
Surface area at maximum depth (A)					
Maximum operation depth (ft)	<u> </u>				
Minimum operation depth (ft)					
Effective storage volume (MG)					
Effective detention time (days)					
Air Requirements	·				
Provided (ft ³ /#BOD)					
Provided (#O ₂ /#BOD)					
Provided (#O ₂ /#BOD)					
Minimum DO level (mg/l)	·				
Freeboard at maximum depth (ft)	·				
Top width of dike (ft)					
Inner embankment slope (H/V)					
Outer embankment slope (H/V)					
Type of inlet					
Top drawoff level (ft)					
Middle drawoff level (ft)	<u> </u>				
Bottom drawoff level (ft)					
5. Aeration Equipment: Design Air Temperature		°F to	 °F		
Туре	Manufacturer 8				
	or CFM/unit		Total HP of CF	M	
	gn temperature		°C		
Is a layout of the aeration system given on Schedule H1? Yes No					
7. Method of raw flow diversion to cells					
8. Method of interconnection of cells					
9. Provision to prevent drawoff of floating solids					
10. Method of sampling					
11. Type of flow measurement Influent			Effluent		
· · · · · · · · · · · · · · · · · · ·	strands of barbed	d wire Top		Bottom	
13. Number of warning signs	Location				
14. Will pond be pre-filled to two-ft. level?	Yes No				
15. Maximum allowable leakage rate	in/day				
Method of testing leakage rate					
16. Are specifications included for: a. Seedin	g	Yes	No		
	erilization		No		
	ottom uniformit		No		
d. Pond s		· = =	No		
	n protection		No		
17. Is service bypass provided? 🗌 Yes 🗌 No	Discharge to				