

✓ 9-6-06

DATA ENTERED		DATE		INITIALS	
		12/2/87		JmS	
DATE RECEIVED	FACILITY NAME	COUNTY No.	PROGRAM AREA CODE	FACILITY TYPE CODE	SUBJECT AREA CODE
3 10/1/87	4 City of Holstein	5 47	6 CP	7 C05	8 317
9 RULE REFERENCE		10 DESIGN STANDARD REFERENCE		11 DECISION	
567-64.2(9)		18C.6.1		12 APPEAL ACTION	
				DATE	
				DATE	
				12/1/87	
13 ENGINEER			14 VARIANCE RULE		
DeWilde, Grant, Beckert & Assoc			567-64.2(9)c		

15. DESCRIPTION OF VARIANCE REQUESTED: The City of Holstein is proposing to convert their existing two cell controlled discharge lagoon into an aerated lagoon with the addition of eight 50 floating surface aerators in the West cell. Since only the West cell will be aerated, the designing engineer is requesting a variance from the design standards to permit use of a single aerated cell in lieu of the minimum of two cells required by our design standards.

respect to detention time in both the aerated and quiescent cells.

2. The aerators (8 @ 5HP each) will only be operated on a seasonal basis.

11. DEPARTMENTS JUSTIFICATION: It is recommended that the requested variance be granted since the project is for conversion of an existing conventional lagoon system to an aerated lagoon system and our design standards under Section 18C.6.5 permit modification or waiver of design requirements for new aerated lagoon construction in such cases. In the case of Holstein the total retention thru the proposed facility of 99.6 days is considerably in excess of the total retention of 31 days required in a new two cell aerated lagoon system. Also the total retention of 56.4 days in the single aeration cell is adequate to provide necessary treatment to meet required effluent limits. If it is necessary to take the aeration cell out of service, the quiescent cell will provide 43.1 days total retention and 22.2 days retention above the two foot level. (see attached calculations, correspondence and other pertinent information)

12. PRECEDENTS USED:

Colony Village Restaurant in Iowa County - Approved 6/25/85
City of Lamoni - Approved 2/20/87
City of Wayland - Approved 2/20/87
City of Moville - Approved 5/1/87

13. STAFF REVIEWER:

Fred M. Evans

12/2/87

14. SUPERVISOR:

Larry Haage, approve 12/3/87

15. AUTHORIZED BY:

David K. Allister

12/3/87