

DATE RECEIVED		FACILITY NAME	COUNTY No.	PROGRAM AREA CODE	FACILITY TYPE CODE	SUBJECT AREA CODE
12/2/87		4 Lohrville Wastewater Treatment Facility	5 13	6 CP	7 C04	8 347
RULE REFERENCE		DESIGN STANDARD REFERENCE	DECISION		APPEAL ACTION	
9 567-64.2(9)		10 16.3.2.4.1	11 Denied 12/5/87		12	
ENGINEER			VARIANCE Rule			
13 Veenstra & Kimm			14 64.2(9) "c"			

15. DESCRIPTION OF VARIANCE REQUESTED: _____

The request is made to allow a surface overflow rate of 1,500 gallons per day per square foot for PHWW flows rather than the 1,200 required by the standards. This applies for the final clarifier following a trickling filter.

16. ENGINEERS JUSTIFICATION:

There really is not a justification given in the letter from the engineer - he just asks to use that rate and proposes a 30 foot diameter clarifier based on that. By comparison, the standard would require use of 34 foot diameter. In visiting with him, I get the impression there may have been a mathematical error in his calculations. Either that, or perhaps he thought there was no harm in trying for a variance, even without good cause.

17. DEPARTMENTS JUSTIFICATION:

There is not adequate (or any) justification for granting a variance as requested. Cost is not greatly increased by following the standard and performance could be adversely affected, if the variance was granted.

Therefore, it is recommended that the request for a variance be denied.

18. PRECEDENTS USED: None in the files.

1. STAFF REVIEWER:

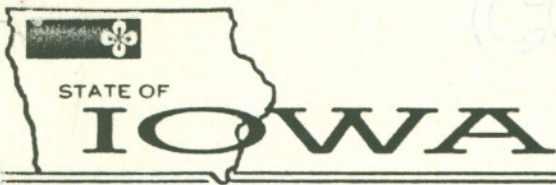
Wayne T. Reed

20. SUPERVISOR:

Larry H. Reed 12/4/87

21. AUTHORIZED BY:

Daniel McEllen 12/5/87



TERRY E. BRANSTAD, GOVERNOR

COPY
RECORD COPY
File Name Lohrville Sewage
Senders Initials MR

DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

December 30, 1987

City of Lohrville
City Hall
Lohrville, IA 51453

PROJECT NO.: S87-210
FILE: Lohrville - Sewage
SUBJECT: Wastewater Treatment Facility

Gentlemen:

The Iowa Department of Natural Resources in accordance with Subrule 567--64.2(9)c of the Iowa Administrative Code has denied the request for a variance from Iowa Wastewater Facilities Design Standard 16.3.2.4.1 which requires that surface overflow rates for settling tanks following trickling filters treating domestic wastewater shall not exceed 1,200 gallons per day per square foot for PHWW flows.

The engineering justification submitted does not substantially demonstrate that this variance will result in at least equivalent effectiveness while significantly reducing costs.

Sincerely,

DARRELL McALLISTER
BUREAU CHIEF
SURFACE AND GROUNDWATER PROTECTION BUREAU

DM/mjt/M364MJT.3

cc: Veenstra & Kimm, Inc.
Field Office 3

Distribution

1 Engineer; 1 Field Office; 1 DNR File



VEENSTRA & KIMM, INC.
CONSULTANT GROUP

November 30, 1987

Lavoy Haage
Iowa Department of Natural Resources
Henry A. Wallace Building
900 East Grand Avenue
Des Moines, Iowa 50319

LOHRVILLE, IOWA
WASTEWATER TREATMENT FACILITY IMPROVEMENTS

In accordance with discussions between Harvey Gullicks of Veenstra & Kimm, Inc., and Lavoy Haage and Wayne Reed of IDNR, we are requesting a variance for construction proposed for the above project. The requested variance is for construction of a 30-foot diameter final clarifier with 8-foot side water depth in lieu of the construction of a flow equalization pond/tank.

Flows up to 175,000 to 200,000 gallons per day are to be directed through the Imhoff tank, trickling filter and into the final clarifier. Greater flows are to be routed to bypass the Imhoff tank and trickling filter, but will be routed through final clarification. We propose to keep the existing rectangular final clarifier in service to reduce the affects of wet weather flows. The new and existing final clarifiers will have a capacity capable of handling the peak hour wet weather flow at surface overflow rates of 1,500 gallons per square foot per day.

Construction of the larger final clarifier represents the best economical alternative available to the City of Lohrville for compliance with the IDNR mandated completion of improvements for the wastewater treatment facility. The 8-foot side water depth is requested because of the high groundwater table, ground surface topography, and construction-related areal constraints.

Your timely response to our request for discussions of construction alternatives on November 23, 1987 was greatly appreciated.

VEENSTRA & KIMM, INC.

A handwritten signature in cursive script, reading 'Harvey A. Gullicks'.

Harvey A. Gullicks, P.E., Ph.D.

HAG:jgt
2474
cc: Doneta Nelsen, City Clerk