



STATE OF IOWA

THOMAS J. VILSACK, GOVERNOR
SALLY J. PEDERSON, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
JEFFREY R. VONK, DIRECTOR

March 19, 2004

Mayor Doug Kamberling
City of Lisbon
P.O. Box 68
Lisbon, Iowa 52253

RE: Variance Request, IA 15.2.4.2.1
Wastewater Treatment Facility Improvements
Lisbon, Iowa
CS 192215-01

Dear Mayor Kamberling:

The Iowa Department of Natural Resources in accordance with Subrule 567—64.2(9)c of the Iowa Administrative Code has approved your October 4, 2002 request for a variance from the Department Rule 567—64.2(9)b and Chapter 15.2.4.2.1 of the Iowa Wastewater Facilities Design Standards, which requires a minimum 5/8 inch opening for the mechanical screen. Based on the documentation presented by the design engineer, it is the determination of this Department that satisfactory justification has been presented to warrant the granting of a variance to the City of Walford for using a minimum clear opening of ¼ inch for the mechanical screen.

This decision is based on our review of justification presented to support the request and our concurrence that the resulting project will provide substantially equivalent effectiveness as would be provided by technical compliance with the design standard on this issue.

If you have any questions, please call Jim Hallmark at 515-281-7767.

Sincerely,

A handwritten signature in black ink, appearing to read "Wayne Farrand", written over a horizontal line.

Wayne Farrand, P.E.
Supervisor
Wastewater Section

cc: Veenstra & Kimm, Forrest Aldrich
Field Office #1
DNR SRF File

✓ 9-8-06

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: March 19, 2004
2. Review Engineer: James A. Hallmark
3. Date Received: January 20, 2004
4. Facility Name: City of Lisbon STP
5. County Number: Linn (57)
6. Program Area: CP (Wastewater Construction)
7. Facility Type : C04 (Physical Treatment)
8. Subject Area : 329
9. Rule Reference: 567-64.2(9)a
10. Design Stds Ref: 15.2.4.2.1
11. Consulting Engr: Veenstra & Kimm, Inc.
12. Variance Rule: 567-64.2(9)c

13. Decision: *approved*

Date: *3/19/04*

14. Appeal:

Date:

15. Description of Variance Request: The City of Lisbon is constructing a new mechanical wastewater treatment facility and requested a variance to install a mechanical screen with 1/4" clear spacing in lieu of the minimum 5/8" clear spacing required by design standards.

16. Consulting Engineer's Justifications

- To remove plastics from the wastewater flow. The plastic material accumulates in the digesters and is ultimately land applied.

17. Department's Justifications

- Concurrence with the City's/ Engineers justification.
- Mechanical screens with openings less than 5/8" are an accepted engineering design practice.
- 10 States Standards (1997) does not specify minimum size of screen openings.
- Primary Clarifiers are not provided.

18. Precedents Used

Clear Lake S.D., Osage, Tama, Fort Madison, Altoona, Cherokee, West Liberty, Waukee, Walford, etc.

19. Staff Reviewer: *James A. Hallmark*

Date: *3/19/04*

20. Supervisor: *Don Jaramila*

Date: *3/19/04*

21. Authorized by:

Date: