

✓ 9-8-06

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: June 18, 2003
2. Review Engineer: James A. Hallmark
3. Date Received: October 4, 2002
4. Facility Name: City of Walford STP
5. County Number: Benton (06)
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: Hart-Frederick Consultants
12. Variance Rule: 567-64.2(9)c

13. Decision: *Approved*
Date: *6/25*

14. Appeal:
Date:

15. Description of Variance Request: The City of Walford 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 the design standards.

16. Consulting Engineer's Justifications

- No grit chamber or primary clarifiers are provided. Therefore recommends using a smaller screen size to remove more trash, debris, etc.
- These type of screens have been installed in many municipal and industrial projects without significant problems.
- The consultant has installed these type of screens on several past projects.

17. Department's Justifications

Recommend approval

- 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.

18. Precedents Used

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

19. Staff Reviewer: *James A. Hallmark*

Date: *6/18/03*

20. Supervisor: *Don Jensen*

Date: *6/25/03*

21. Authorized by: *J. Riessen*

Date: *6/25/03*



STATE OF IOWA

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

DEPARTMENT OF NATURAL RESOURCES
JEFFREY R. VONK, DIRECTOR

June 18, 2003

Mayor Randy Bauer
City of Walford
120 5th Street N
P.O. Box 148
Walford, Iowa 52351

Subject: Variance Request from IA 15.2.4.2.1
Walford, Iowa
Wastewater Treatment Improvements
CS192223-01

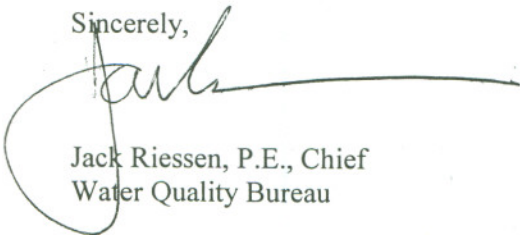
Honorable Mayor Bauer:

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 1/4 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,



Jack Riessen, P.E., Chief
Water Quality Bureau

cc: Hart-Frederick
Field Office #1
DNR File