

✓ 9-11-06

## VARIANCE REQUEST

### Iowa Department of Natural Resources

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| 1. Date: February 25, 1998<br>2. Review Engineer: Bill Graham<br>3. Date Received: December 21, 1999<br>4. Facility Name: Halbur WWTP<br>5. County Number: 14, Carroll<br>6. Program Area: CP (wastewater)<br>7. Facility Type : C01<br>8. Subject Area: 344, LS trash baskets<br>9. Rule Reference: 567-64.2(9)a<br>10. Design Stds Ref: 13.4.2<br>11. Consulting Engr: DGR Engineering, Rock Rapids, IA<br>12. Variance Rule: 567-64.2(9)c | 13. Decision: <u>Denied</u><br>Date: <u>3/8/99</u><br><br>14. Appeal:<br>Date: |
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#### 15. Description of Variance Request:

The city of Halbur and the West Central Iowa Rural Water Association are requesting a variance from the design standard which requires trash baskets for all lift stations handling raw wastewater to protect them from clogging. The lift station will be part of a new collection and treatment system in the unsewered community of Halbur. The project is a participant in the small community pilot program.

#### 16. Consulting Engineer's Justifications

The pilot program should be seen as an opportunity to drop the trash basket requirement, which is of very limited benefit and even less usage in the field. There is no such requirement in South Dakota or Minnesota. The use of 6 inch diameter sanitary sewers has considerably reduced the size of objects that might reach the lift station and plug the pumps.

It is not simple or inexpensive to add trash baskets at Halbur since the wet well has two influent sewer lines. There is not enough room in the wet well to fit in two trash baskets along with related removal equipment, hatch, etc.

#### 17. Department's Justifications

Departmental denial of this variance is recommended for the following reasons:

1. Engineer's justification does not show equivalent effectiveness or significant cost savings. If necessary the diameter of the wet well can easily be increased to accommodate the trash baskets or grinder pumps, which don't require trash baskets could be used.
2. Not using a trash basket is an operational problem, not a design issue. Wastewater pumps need to be protected against clogging and damage. Trash and debris can still be expected to find their way into a 6 inch diameter sewer and the operator needs to be provided with a means of removing them.

18. Precedents Used

Variance request for elimination of trash basket denied for the City of Boyden in 1990. Same engineer requested variance with similar justifications.

19.	Staff Reviewer: Bill Graham	Date: February 25, 1999
20.	Supervisor:	Date: 2/26/99
21.	Authorized by:	Date: 3/8/99