A.	9-11-06	VARIANCE FILE
VARIANCE REQUEST Iowa Department of Natural Resources		
1. Date:	January 30, 2001	13. Decision: Approved
2. Review Engineer:	Larry Bryant	Date: 2/6/01
3. Date Received:	January 23, 2001	
4. Facility Name:	McGregor WWTP	14. Appeal:
5. County Number:	22, Clayton	Date:
6. Program Area:	CP (Wastewater Constructi	
7. Facility Type :	C01 (Collection/Transport)	
8. Subject Area :	315 and 370	
9. Rule Reference:	567-64.2(9)a	
10. Design Stds Ref:		
	Vierbicher Associates/Prain	rie Du Chien, WI
12. Variance Rule:	567-64.2(9)c	
15. Description of Va	ariance Request:	
Provide only one i	nstalled pump for design pur	nping rate.
16. Consulting Engir	neer's Justifications	
and the second		3 residential homes that cannot be served by gravity sewer du
to their location a	at the bottom of a ridge.	
• All other nearby will not be subject	lots are at the top of the ridge ct to any other future loads).	e and connect to the gravity sewer system (the pump station
		sepower as several other grinder pump stations already owned to be switched in the event of a pump failure.
• The pump station needed.	n wet-well capacity will prov	ide enough time to repair or switch out the single pump, if
17. Department's Jus	tifications	
Recommend varian	ce approval with condition	S:
backup problems is l However, there shou can be installed prior	likely to be between 2 to 4+ h Id be a <u>dedicated</u> back-up pu r to household sewer backups nity (and in particular the thr e alarm.	pump failure, and the time from pump failure (alarm) to sew nours based on the wet-well capacity and anticipated flows. mp available (not one borrowed from another lift station) that s. Also, the lift station is specified with a visual alarm only. ee households serviced) should be notified of whom they can
City of Johnston – A following lagoons.	pproved 3/10/93. Same vari	ance but for a different situation. Johnston used a single pum
19. Staff Reviewer:	Harry Breath 1	Date: 1/30/01 Date: 1/30/01
/	111 (	Data: Mark
20. Supervisor:	4 Am Juins	Date: / 3./01
21. Authorized by:	Jack Russer	Date: 260

VIERBICHER ASSOCIATES

## January 11, 2001

Larry Bryant Iowa DNR, Environmental Protection Division Henry A. Wallace Building 502 East 9th Street Des Moines, IA 50319-0034

McGregor, IA - Ridgewood West II Re.

## Dear Mr. Bryant:

. On behalf of the City of McGregor, we are requesting a variance from Chapter 15 of Design Standards to allow the city to install and continue to own and - maintain a grinder pump station to potentially serve a maximum of three singlefamily homes. Three single-family lots cannot be served by gravity sewer, and - are located near the top of a ridge, so no other nearby property requires a lift station. The city is the developer, and prefers to retain ownership of the proposed grinder pump station rather than turning it over to the eventual lot owners. This is the most cost-effective means of serving these lots, and the city will install a pump that is the same brand and horsepower as several other grinder pump stations (duplex and simplex) owned by the city. This way, the city has spare pumps that can be switched in the event of pump failure.

ENGINEERING
ARCHITECTURE

- 7 ENVIRONMENTAL SURVEYING/CIS
- · COMMUNITY DEVELOPMENT

¥ 400 VIKING DRIVE PO BOX 379 REEDSEURC, WI 53959 (008) 52-0-000 Fax (008) 524-5215

. 0200 MINERAL POINT ROAD MADISON, W: 53705-4504 (605) 233-5600 Fax (606) 233-131

- Y 1521 METRO DRIVE, SUITE 205 P.D. BOX 650 SCHOPTELD, WI 54476-0650 (715) 359-2003 Fax (715) 359-2003
- T 114 WEST BLACKHAWK AVENUE Enc. P.O. BOX 542 PRAIRIE DU CHIEN, WI 53821-0542 (1015) 326-1051 Hex (006) 324-1052
- V www.y.erbicher.com

The average daily flow to the station will be 900 GPD (9 persons x 100 gpcd) or 37.5 gal/hour. The station will be equipped with a high-water alarm; but also has a capacity of about 300 gallons before overflowing, which will allow ample time to repair or switch pumps, if necessary.

Please contact me if you have any questions.

Sincerely, Vierbicher Associates, Inc

William P.E. Nelson, PE