



Environmental  
Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

August 2, 2012

RE: GEAUGA COUNTY  
MANCHESTER FARMS WATER  
COMMUNITY WATER SYSTEM  
PWS ID #OH2801712

Ms. Andrea Petkosek  
7475 Devon Lane  
Chesterland, OH 44026

SUBJECT: NOTICE OF VIOLATION OF THE CHLORINE RESIDUAL  
IRON AND MANGANESE ISSUES  
TOTAL CHLORINE RESIDUAL REPORTING

Dear Ms. Petkosek:

This office has received the monthly operating reports (MOR form 5002) for June 2012 from the Manchester Farms Public Water System. The MOR is provided as a means to relay compliance information about the operation of the water treatment plant. Operational monitoring is conducted throughout the month to test the treatment effectiveness of the water plant. Since Manchester Farms Water treats its water by chlorine injection (disinfection), you are required to conduct monitoring for chlorine residuals.

**Chlorine Violation:** Please note the following violation:

- At least one sample each day is required to be analyzed for free chlorine or combined chlorine at the entry point and in distribution (OAC Rule 3745-83-01(F)(2)(a)). In accordance with Ohio Administrative Code (OAC) 3745-83-01(C)(1), free chlorine residual must remain above 0.2 mg/L or combined chlorine must be above 1.0 mg/L in the distribution system in accordance with OAC 3745-83-01(C)(1).

In the June 2012 monthly operating report, the free chlorine levels were below 0.2 mg/L and the combined chlorine residual was below 1.0 mg/L a total of 3 days in each month. **Free chlorine residuals must remain above 0.2 mg/L or combined chlorine residual must remain above 1.0 mg/L** in accordance with the regulations, and for proper disinfection to occur.

**Manganese Violation:** Please note the following violation:

In accordance with Ohio Administrative Code (OAC) 3745-82-02, plant tap manganese levels must remain at or below the secondary MCL of 0.05 mg/L at all times.



(aa) Chlorine Residual (Total), # of Routine Samples

Please report the number of Total Chlorine samples that were taken at the time you collected your total coliform bacteria sample(s) (*Total Chlorine should be measured at the same points in the distribution system and at the same time as the routine and repeat total coliform bacteria samples are taken*). This number should reflect all routine and repeat total coliform bacteria samples taken during the reporting month. If you take one total coliform bacteria sample per month, this number will be 1. If you take 15 total coliform bacteria samples per month, this number will be 15. (*Reference: OAC 3745-81-70 (E)(1)*)

(bb) Chlorine Residual (Total), Avg. Value (mg/L)

This number is the average of all the Total Chlorine values taken during the month at the time the total coliform bacteria samples were taken. The average is to be reported to one decimal place. (*References: OAC 3745-81-10, OAC 3745-81-70 (E)(2)*)

Please note that Ohio EPA's e-DWR system automatically calculates the running annual arithmetic averages for compliance based upon the information you provide each month.

If you have any questions regarding this correspondence, or if you need any assistance, please contact me at (330) 963-1149 or at my e-mail address, [Kathy.metropulos@epa.state.oh.us](mailto:Kathy.metropulos@epa.state.oh.us).

Sincerely,



Kathy Metropulos  
Environmental Specialist  
Division of Drinking and Ground Waters

KM:ds

pc: Geauga County Health Department  
Glenn Elliott, Operator of Record, PO Box 206, Novelty, OH 44072