



**Environmental
Protection Agency**

John R. Kasich, Governor

Mary Taylor, Lt. Governor

Scott J. Nally, Director

June 25, 2012

RE: LAKE COUNTY
KIRTLAND
WESTERN RESERVE HEALTH CARE
APPLICATION NO. OH0100994
NPDES PERMIT NO. 3PR00137

Amanda Eberhart, Executive Director
Western Reserve Health Care
9685 Chillicothe Road
Kirtland, Ohio 44094

Dear Ms. Eberhart:

On June 19, 2012, this writer conducted a compliance evaluation inspection of the wastewater treatment plant (WWTP) that serves the above referenced facility. The purpose of the inspection was to evaluate the WWTP's operation and maintenance condition, and to evaluate the facility's compliance with National Pollutant Discharge Elimination System (NPDES) permit effluent limits. Nancy Painter, Director of Operations, accompanied this writer during the inspection.

At the time of the inspection, the plant was producing an effluent of satisfactory visual quality in that there was no evidence of solids or oil and grease. The following observations were noted:

TOP PLANT

- The color of the mixed liquor was brown in color, indicating a balanced system.
- The skimmer and sludge return lines were in operation, as required.

BOTTOM PLANT

- The flow equalization tank was in operation, as required.
- The aeration tanks were being aerated; however, this writer noted that the air distribution throughout the tanks is not even. The section of tanks further away from the blowers had less air agitation and may be receiving less air than the sections closer to the blower. Please consult with your operator of record to ensure that the entire length of tanks is receiving sufficient air.
- The content of the settling tanks was turbid. Sludge was visible on the water surface and should be removed. The rate of sludge return or wasting may need to be adjusted.
- The filter beds are in need of work. The southeast filter bed was ponded with sludge and vegetation. The remaining beds were not in operation and contained excessive vegetation, which must be removed. The sludge, vegetation and any sludge laden sand must be removed from the surface and replaced with clean, Ohio EPA approved sand. Assurances must be made that 18 inches of Ohio EPA approved filter sand exists on both beds. Ohio EPA approved filter sand has a uniformity coefficient that does not exceed 3.0 and an effective size of 0.4 mm - 1.0 mm. The sand must be raked and evenly distributed across the surface of the filter bed. According to Ms. Painter, two of the four filters will receive new sand this year. The remaining two filters will receive new sand next year.
- The chlorinator contained no chlorine tablets. Disinfection of the effluent is required from May 1st to October 31st. Chlorine tablets must be placed in the chlorinator.

- The dechlorinator contained no sulfite tablets. When the effluent is disinfected with chlorine tablets, sulfite tablets must be placed in the dechlorinator to meet the chlorine limit of 0.019 mg/l.
- Information in the Operation and Maintenance manual, located in the dosing control box, was satisfactory.

A review of the monthly operating reports for the period of October 2010 through May 2012 revealed the following effluent violations:

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	00530	Total Suspended Solids	7D Conc	15	18.	10/8/2010
001	00530	Total Suspended Solids	30D Conc	12	20.	4/1/2011
001	00530	Total Suspended Solids	7D Conc	15	33.	4/1/2011
001	00530	Total Suspended Solids	7D Conc	15	24.	4/22/2011
001	00530	Total Suspended Solids	30D Conc	12	17.25	8/1/2011
001	00530	Total Suspended Solids	7D Conc	15	16.	8/1/2011
001	00530	Total Suspended Solids	7D Conc	15	50.	8/15/2011
001	00530	Total Suspended Solids	7D Qty	2.3	2.7252	8/15/2011
001	50060	Chlorine, Total Residual	1D Conc	0.019	.1	10/24/2011
001	00530	Total Suspended Solids	7D Conc	15	18.	3/15/2012
001	00530	Total Suspended Solids	7D Conc	15	16.	4/15/2012

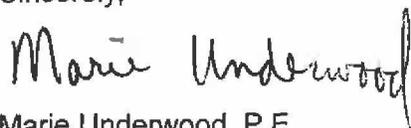
Please be advised that failure to comply with the effluent limitations or to satisfy the monitoring or reporting requirements of your NPDES permit may be cause for enforcement pursuant to Ohio Revised Code 6111.

Your existing NPDES permit expires July 31, 2013. A renewal NPDES permit application is due 180 days prior to the expiration date of the permit. Please be sure to submit to this office, a renewal application and the \$200 application fee prior to January 31, 2013.

Within 10 days of the date of this letter, you are required to notify this office, in writing, outlining the corrective action, either actual or proposed, that will be taken to eliminate the above highlighted deficiencies.

Should you have any questions, do not hesitate to contact this writer at (330) 963-1183.

Sincerely,



Marie Underwood, P.E.
Environmental Engineer
Division of Surface Water

MU/cs