



State of Ohio Environmental Protection Agency

Northeast District Office

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Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

August 27, 2007

RE: MAHONING COUNTY  
13134 STATE ROUTE 62  
NPDES PERMIT 3PR00386  
2008 CEI

Ms. Sheri Calabrese, Controller  
Andrews Cycle  
13134 State Route 62  
Salem, OH 44460

Dear Ms. Calabrese:

On August 6, 2007, this writer conducted an inspection of the wastewater treatment system for Andrews Cycle. Mr. Tim McKenzie represented Andrews Cycle during the inspection. Following are observations made during the inspection.

1. The condition of the treatment system has improved considerably since the previous inspection in March 2007. The system is now considered satisfactory. Mr. McKenzie indicated that much of the previous problems resulted from a mistake made during construction. Mr. McKenzie found that a pipe that connected the re-circulating valve to the outlet from the dosing tank was not installed during construction. This prevented the system from operating as designed. The pipe from the re-circulating valve to the discharge pipe leading to the disinfection tank was installed and the system is now operating as designed.
2. The sand filters were previously surcharged with wastewater. At the time of this most recent inspection, the sand filters were operating properly. The sand was free of solids and was raked level. One filter was being dosed and the second filter was off-line as required.
3. During the previous inspection, the equalization tank appeared to have a problem with maintaining the wastewater level in the tank. At the time of the previous inspection, the wastewater level in the equalization tank was to the bottom of the splitter box in the tank. It appeared during this most recent inspection that the problem was corrected. The level of wastewater in the equalization tank was at the expected level.
4. The wastewater being discharged to the disinfection tank was clear and free of turbidity and odor. As previously discussed, only chlorine tablets are to be placed in the disinfection tank in order to maintain the residual level of chlorine above 1.0 mg/l.
5. A review of the Monthly Operating Reports shows that all parameters are being reported for Outfalls 601 and 602 at the frequency required by the NPDES permit. As discussed with Mr. McKenzie, each day that wastewater is applied to the irrigation field, a sample of the wastewater must be collected and analyzed for nitrates and fecal coliform.

Compliance Monitoring

The Monthly Operating Reports (MORs) for March through June 2007 were reviewed. Following are limit violations identified for this most recent review period.

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Parameter	Date	Outfall	Reporting Frequency	Limit	Reported Value
Chlorine Residual	March 5, 2007	601	1-Day Min.	1.0 mg/l	BDL*
Chlorine Residual	March 12, 2007	601	1-Day Min.	1.0 mg/l	0.05 mg/l
Chlorine Residual	March 19, 2007	601	1-Day Min.	1.0 mg/l	BDL*
Chlorine Residual	March 26, 2007	601	1-Day Min.	1.0 mg/l	BDL*
Ammonia	March '07– Week 1	601	7-Day Avg.	4.5 mg/l	9.1 mg/l
Ammonia Nitrogen	March '07	601	30-Day Avg.	3.0 mg/l	9.1 mg/l
Chlorine Residual	April 2, 2007	601	1-Day Min.	1.0 mg/l	0.08 mg/l
Ammonia	April '07– Week 2	601	7-Day Avg.	4.5 mg/l	11.8 mg/l
Ammonia	April '07	601	30-Day Avg.	3.0 mg/l	11.8 mg/l
Chlorine Residual	May 23, 2007	601	1-Day Min.	1.0 mg/l	0.19 mg/l
Ammonia	May '07– Week 1	601	7-Day Avg.	1.5 mg/l	2.73 mg/l
Ammonia	May '07	601	30-Day Avg.	1.0 mg/l	2.73 mg/l
Chlorine Residual	June 4, 2007	601	1-Day Min.	1.0 mg/l	0.38 mg/l
Chlorine Residual	June 25, 2007	601	1-Day Min.	1.0 mg/l	0.4 mg/l

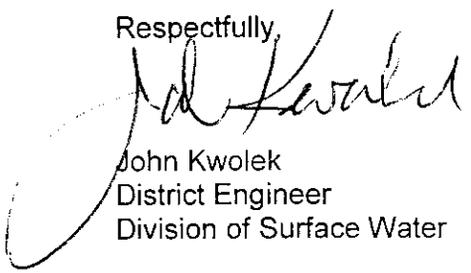
\* BDL – Below Detection Limit

It appears from the June 2007 MOR that maintaining the minimum chlorine limit is an issue that needs to be addressed by Andrews Cycle. As a result of the chlorine limit violations, Andrews Cycle is in Significant Noncompliance (SNC) for the limit established in the NPDES permit. However, this should be easily corrected by providing daily checks of the chlorine tablet holder to ensure that sufficient tablets are in place to maintain the minimum chlorine residual.

Finally, Andrews Cycle still needs to submit the Sludge Management Plan and the Spray Irrigation Management Plan to this office as required by Part I.C of the NPDES permit.

You may contact this office at (330) 963-1251 to discuss any questions you may have regarding this inspection report.

Respectfully,



John Kwolek  
 District Engineer  
 Division of Surface Water

JK/mt

cc: Joe Mansky, Mahoning County Health Department

File: Semi-Public/Mahoning County/Goshen Twp./Andrews Cycle.