



State of Ohio Environmental Protection Agency

Northeast District Office

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

April 30, 2009

RE: MAHONING COUNTY
13134 STATE ROUTE 62
NPDES PERMIT 3PR00386
2009 CEI

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

Dear Ms. Calabrese:

On March 31, 2009, 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 was considered satisfactory at the time of the inspection. All of the mechanicals (e.g., pumps and blowers) appeared to be operational. The sand filters were free of sludge and the north filter was dry, raked and level.
2. The wastewater being discharged from the disinfection tank was clear and free of turbidity and odor.
3. The holding lagoon was in need of pumping. Andrews Cycle should consider initiating spray irrigation of the lagoon contents in the near future in order to empty the lagoon at a reasonable rate throughout the summer.

Compliance Review

The Monthly Operating Reports (MORs) for January 2008 through March 2009 were reviewed for compliance with the NPDES Permit. Following are limit violations identified for outfall 601 (discharge to the lagoon) during the review period.

Parameter	Date	Reporting Frequency	Limit	Reported Value
Nitrogen Ammonia	1/1/08	30-Day Avg.	3.0 mg/l	4.2 mg/l
Nitrogen Ammonia	2/1/08	7-Day Qty.	0.042 kg/d	0.108 kg/d
Nitrogen Ammonia	2/1/08	30-Day Qty.	0.027 kg/d	0.108 kg/d
Nitrogen Ammonia	2/1/08	7-Day Avg.	4.5 mg/l	46 mg/l
Nitrogen Ammonia	2/1/08	30-Day Avg.	3.0 mg/l	46 mg/l
Nitrogen Ammonia	3/1/08	7-Day Qty.	0.042 kg/d	0.11 kg/d
Nitrogen Ammonia	3/1/08	30-Day Qty.	0.027 kg/d	0.11 kg/d
Nitrogen Ammonia	3/1/08	7-Day Avg.	4.5 mg/l	50 mg/l
Nitrogen Ammonia	3/1/08	30-Day Avg.	3.0 mg/l	50 mg/l
Nitrogen Ammonia	4/1/08	30-Day Avg.	3.0 mg/l	6.4 mg/l
Nitrogen Ammonia	4/1/08	7-Day Avg.	4.5 mg/l	5.7 mg/l
Nitrogen Ammonia	4/15/08	7-Day Avg.	4.5 mg/l	7.1 mg/l
Nitrogen Ammonia	5/1/08	7-Day Avg.	1.5 mg/l	4.6 mg/l
Nitrogen Ammonia	5/1/08	30-Day Avg.	1.0 mg/l	4.6 mg/l
Nitrogen Ammonia	6/1/08	30-Day Avg.	1.0 mg/l	13 mg/l
Nitrogen Ammonia	6/1/08	7-Day Avg.	1.5 mg/l	13 mg/l
Chlorine Residual	6/1/08	1-Day Min.	1.0 mg/l	0.73 mg/l
Chlorine Residual	7/9/08	1-Day Min.	1.0 mg/l	0.57 mg/l

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Parameter	Date	Reporting Frequency	Limit	Reported Value
Nitrogen Ammonia	1/1/09	7-Day Conc.	4.5 mg/l	5.66 mg/l
Chlorine Residule	1/7/09	1-Day Min.	1.0 mg/l	0.94 mg/l

In addition to the limit violations noted above, many frequency violations were identified during the review period. The reporting frequencies identified in the NPDES Permit must be followed each month.

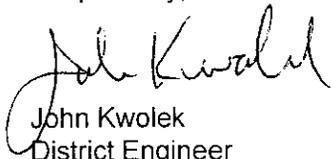
A review of the information reported for the spray irrigation system (outfall 602) identified the following violations.

1. The NPDES Permit limits the amount of wastewater that can be spray irrigated in a single day to 0.5 inches. In July, August, September and October 2008, Andrews Cycle reported a spray irrigation rate of 1.31 in/day. The irrigation rate must be held at 0.5 in/day as specified in the NPDES Permit at this time. This is to ensure that no runoff of the wastewater to the adjacent stream will occur due to over-application. An increased frequency of operation may be necessary to irrigate the lagoon volume at the 0.5 in/day rate.
2. In July, September, and October 2008, Andrews Cycle reported operational hours on days when no application rate was reported. As required by the NPDES permit, Andrews Cycle must report the application rate each day that the irrigation system is operated.
3. In July and September 2008, Andrews Cycle reported that the irrigation system was operated during days when measurable rainfall was recorded. The NPDES Permit limits the irrigation of wastewater to times when no precipitation is occurring. This restriction is intended to prevent the runoff of wastewater to the adjacent stream. The irrigation system should not be operated on days when rain has recently occurred or is expected.

Andrews Cycle needs to review the restrictions in the NPDES Permit for operating the spray irrigation system. The restrictions can be found in Part II, Item I of the 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
Tim McKenzie, Contract Operator

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