



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

September 10, 2013

RE: ROUND UP LAKE
FORMERLY JELLYSTONE PARK
PERMIT NO. 3PR00090*ED
PORTAGE COUNTY
MANTUA TOWNSHIP

Round Up Lake
Mr. Duncan J. Kirtley
Regional Operation Director
Janus Hotel & Resorts
3392 State Route 82
Mantua, Ohio 44255

Dear Mr. Kirtley

On August 29, 2013, an inspection of the above referenced facility's wastewater treatment system was conducted. The facility was represented by Mr. Mark Rhoades, Class "A" Waste Water Treatment Plant Operator. The purpose of the inspection was to: (1) evaluate the performance of the wastewater treatment system along with the facility's compliance status with respect to the terms and conditions of the above-referenced National Pollutant Discharge Elimination System (NPDES) permit and (2) determine required additional actions to be undertaken as part of the permit renewal process.

During the inspection, the following items were noted/ discussed:

1. The plant design of the wastewater treatment system is 30,000 gallons per day.
2. The treatment plant is located within a fenced area with a locked gate.
3. One lift station from the park discharges into the treatment system.
4. **H₂O Technolgies took over operations of the wastewater treatment plant on May 1, 2013.**
5. In accordance with Ohio Administrative Code 3745-7-04, the sewage treatment facility is classified as a Class 1 facility. The classification requires that the Operator of Record be physically present at the treatment works three days per week for a minimum of one and a half hours per week.
6. Ohio EPA has on record that Mr. George Haggerty is the current Operator of Record. The date of notification on record is May 30, 2013. Mr. Haggerty holds a Class III Wastewater Operators License.
7. Ohio operator certification rules require that a field log book be maintained at the treatment plant. The log book should document the time the Operator of Record is present at the treatment plant along with maintenance duties being performed. This requirement is being met. The log book is kept inside the building which houses the flow meter.
8. The flow equalization tank is equipped with a single blower/motor system.
9. Mr. Rhoades indicated that a new motor and blower for the flow equalization tank were installed at the end of June 2013.

10. The flow equalization tank was receiving good aeration.
11. The belt on the blower/motor unit for the flow equalization tank was very loose. The belt should be properly adjusted.
12. The weight loaded pressure relief valve was tested and found to be non-functional. This should be corrected.
13. Both pumps for the flow equalization tank were tested and confirmed to be functional.
14. The treatment plant is equipped with a triple blower/motor system. All three units were tested and confirmed to be functional.
15. The treatment plant was receiving good aeration.
16. The contents of the aeration tank were medium brown in color. Approximately 25% of the aeration tank was covered with brown foam. This is not normal for a properly operating plant.
17. Two of the three blowers were operating. Mr. Rhoades indicated that the west blower's control setting is run on automatic and the remaining two blowers are alternated manually every couple days.
18. All three air filters were black and were in need of being replaced. The air filters should be replaced immediately.
19. No odor was present at the treatment plant.
20. Both sludge return lines were functioning properly and returning medium brown water.
21. The north skimmer return line appeared to be functioning and was returning clear water. However, it was not drawing in any floating solids. The top of the skimmer should be adjusted to approximately a quarter of an inch below the liquid surface when the blowers are in operation.
22. The south skimmer was located behind the inlet baffle of the settling tank. This line was returning medium brown water. Mr. Rhoades indicated that the reason for the skimmer behind the inlet baffle was not known.
23. Minimal floating solids were present on the surface of the settling tank.
24. Mr. Rhoades indicated that 12,000 gallons of the settling tank contents were pumped out earlier in the week. He also indicated that the sludge holding tank was pump in early May 2013.
25. The weirs and trough in the settling tank were covered with vegetation and moss. See Figure 1. The weirs and trough should be scraped down or hosed off on a regular basis.
26. The weir is leaking between the plates near the outlet. See Figure 2. Also, it appears that the weir needs to be leveled. The water is only flowing over the weir on the west side near the outlet. This needs to be corrected immediately.
27. Both dosing pumps were tested and confirmed to be functional. The wastewater being dosed on the sand filter was clear.
28. The surface sand filter consisted of two cells. The south cell was in use. The solids from the surface of the south cell were recently removed and placed in a roll off box located within the fenced area of the treatment plant. The north cell was currently being dried out in order to perform maintenance. The north cell was covered with a layer of solids/sludge. See Figure 3. It should be noted that both cells should be maintained free of vegetation and sludge at all times. All material removed from the cells should be properly disposed at a licensed solid waste landfill. Placing this material in the facility's dumpster is acceptable.

29. In general, 18 inches of approved filter sand is necessary. Any filter sand that is used must meet the requirements of Ohio Administrative Code (OAC) 3745-42-09. More specifically, for conventional surface sand filters, filter sand shall be washed and free of silt; have an effective size of 0.4 mm to 1.0 mm; and have a uniformity coefficient less than 3.0.
30. The treatment system is equipped with ultra-violet disinfection. The system consists of two banks (four lights total). All four red indicating lights were operational. It should be noted that disinfection is required from May 1st through October 31st.
31. The flow is monitored with an Eastech ultrasonic flow meter. Mr. Rhoades indicated the new flow meter was installed in June 2013.
32. The treatment plant discharges to the Aurora Branch of the Chagrin River via an unnamed tributary.
33. The final effluent was clear. No impact to the receiving stream was observed.
34. A permanent marker at the outfall was posted per the requirement of Part II, Letter L of the facility's NPDES permit. It was understood that the phone number needs to be updated from 330-562-9101 to 330-562-9100.
35. Please note the following includes some of the changes that will be made to the facility's NPDES permit:
 - a. A schedule of compliance will be placed in the permit renewal, which requires the facility to meet E. Coli limits in the final table for outfall monitoring station 3PR00090001.
 - b. Color, severity and odor, severity have been deleted from sampling station 3PR00090001.
 - c. Nitrite plus nitrate, total and phosphorus, total have been added to sampling station 3PR00090001.
 - d. Sampling station 3PR00090586 has been removed from the permit.
 - e. Sludge weight-dry tons has been replaced with sludge volume, gallons at sampling station 3PR00090588.
36. Once the facility's renewal permit is drafted it will be public noticed. During public notice, you will have a 30 day period to evaluate your permit and comment in writing any concerns you may have.

This office has recently reviewed your self-monitoring reports covering the period May 1, 2010 through July 31, 2013 for the referenced facility. Our review indicates violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are as follows:

Limit Violations

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	3.0	22.	6/8/2010
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.341	.94928	6/8/2010
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.2	11.035	6/1/2010
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.137	.47598	6/1/2010
001	31616	Fecal Coliform	7D Conc	2000	2900.	6/8/2010
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	3.0	9.65	7/8/2010
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.341	.48944	7/8/2010
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.2	4.87	7/1/2010

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Please be advised that such instances of noncompliance may be cause for enforcement actions pursuant to the Ohio Revised Code, Chapter 6111.

Should you have any comments or questions concerning this letter, please feel free to call me at (330) 963-1143.

Respectfully,

A handwritten signature in blue ink that reads "Michael W. Stevens". The signature is written in a cursive style.

Michael W. Stevens
Environmental Engineer
Division of Surface Water

MWS/cs

ec: Mr. William Newsome, H₂O Technologies

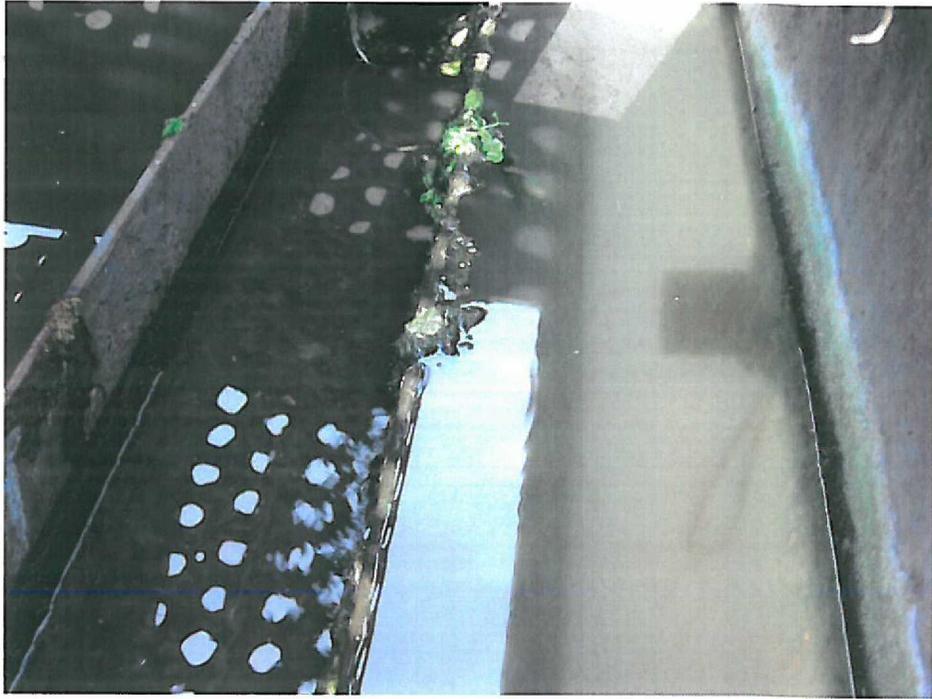


Figure 1



Figure 2



Figure 3