



State of Ohio Environmental Protection Agency

Northeast District Office

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

November 29, 2007

RE: WAYNE COUNTY
GLEN RIDGE MHP (ORRVILLE INN)
PERMIT 3PV00092

Ms. Joyce Kick, Property Manager
Touchdown Properties
10355 Lincolnway East
Orrville, OH 44667

Dear Ms. Kick:

On November 27, 2007, this writer met with you to conduct an inspection of the wastewater treatment plant serving the Glen Ridge Mobile Home Park/Orrville Inn. Below are the findings and recommendations from this inspection:

At the time of the inspection, the treatment plant was producing what appeared to be a satisfactory quality effluent. The 14,000-gpd wastewater treatment plant consists of a trash trap, a flow equalization tank, two aeration tanks, a final settling tank, an up-flow fixed media clarifier, a dosing tank two surface sand filters, UV disinfection and a sludge holding tank. Overall, the plant appeared to be in fair operation and maintenance condition.

- 1) The extended aeration tank appeared to be in good condition but appeared to be lacking adequate air circulation. The influent chamber/plant influent was in very poor condition with raw sewage located around the tank. This raw sewage is a health nuisance and must be cleaned up immediately. The flooding of the inlet to the plant is of great concern to this office. A possible overloading of the plant may be the cause of these frequent overflows. Part III of your NPDES permit requires you to report any overflows to this office within 24 hours of discovery at 1-800-282-9378.
- 2) The mixed liquor in the aeration tank was a light brown color and the tank had insufficient air circulation. The sludge return line was returning a clear liquid. The sludge return line should be returning concentrated solids to maintain a proper solids balance in the system. The clarifier skimmer was submerged and barely visible. There should only be 1/8-inch of fluid above the skimmer. This problem must be resolved immediately to properly skim the clarifier.
- 3) The sand filters were in poor condition. Both filter beds were flooded and the filter media was overloaded with leaves, vegetation, sediment and sludge. The sand filters must be dewatered and the media must be completely removed and replaced with media acceptable to Ohio EPA standards. When dewatering the filters, the discharge water will be considered untreated sewage and must be hauled off site to another wastewater treatment plant. The ground adjacent to the sand filters was covered with sand media and solids. It appears the sand filters may have flooded over the sidewalls and deposited sand media and waste around the treatment unit. This is unacceptable and the sand media located in and around the wastewater treatment plant must be cleaned up immediately. This sand media is considered a solid waste and must be disposed of at a facility licensed to accept this type of waste.

- 4) The bypass around the sand filters was previously plugged with a rubber gasket. This type of plug is not sufficient as this office views that as a temporary plug. A more permanent plug would be to cement off this pipe which is located in the filter sidewall.
- 5) The UV system was not in operation at the time of the inspection. You indicated the UV lights were out and the facility was in the process of scheduling maintenance work on the unit. Per your National Pollutant Discharge Elimination System (NPDES) permit, disinfection of your effluent is required during the summer months (May through October).
- 6) The flows recorded on the Monthly Operating Reports for this facility show average daily flows in excess of 14,000 gpd. The facility is designed to handle 14,000 gpd and frequent hydraulic overload will place immense stress on the treatment units. You indicated dye testing of the storm sewers and downspouts was conducted and the results indicated there were no clean water connections to the wastewater system. Upon further inspection, it was discovered that the backwash water from the water treatment plant's greensand filter discharges to the wastewater treatment plant. This connection was not included in the permit-to-install (02-17875) issued on September 26, 2003, and may be the cause for the hydraulic overloading of the wastewater treatment plant. Water use by the mobile home park and the inn should be evaluated to find out the source of the high flows. The collection system may be the source of inflow/infiltration if the sewers are aged or cracked.
- 7) The sludge holding tank was full at the time of the inspection and contained solids of a very light brown color. The sludge holding tank should contain a concentrated solids mixture with a dark brown color. You indicated the sludge holding tank had been pumped out recently which concerned this office because of how full the tank was at the time of the inspection. This would indicate the system is hydraulically overloaded and the solids balance in the wastewater treatment plant is inadequate. This issue must be fixed immediately to ensure continued compliance with the NPDES permit.
- 8) During the inspection, the air supply to the wastewater treatment facility appeared to be inadequate. The air diffusers in the extended aeration, flow equalization and sludge holding tank must be inspected to ensure there are no clogged nozzles or loose fittings. The blower must also be inspected to ensure it is operating efficiently and consistently providing enough air to the system.

A review of your monthly operating reports covering the period April 1, 2005, through November 29, 2007, revealed the following effluent violations:

Reporting Period	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
July 2005	00400	pH	1D Conc	9.0	9.3	7/7/2005
December 2005	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	8.3	12/1/2005
December 2005	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	8.3	12/8/2005
December 2005	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.16	.4084	12/1/2005
December 2005	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.24	.4084	12/8/2005
December 2005	80082	CBOD 5 day	30D Conc	10	11.	12/1/2005

Ms. Joyce Kick
Glen Ridge Mobile Home Park/Orrville Inn
November 29, 2007
Page 3

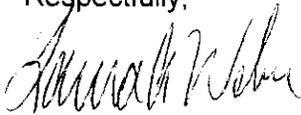
Reporting Period	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
December 2005	80082	CBOD 5 day	30D Qty	0.5	.54126	12/1/2005
May 2006	31616	Fecal Coliform	30D Conc	1000	2800.	5/1/2006
May 2006	31616	Fecal Coliform	7D Conc	2000	2800.	5/15/2006
August 2006	00610	Nitrogen, Ammonia (NH3	30D Qty	.05	.05829	8/1/2006

Please submit to this office a written follow up which addresses all the deficiencies noted and provide a schedule to complete the work required. You will have fifteen days from the date of this letter to get this write up submitted to this office.

I have enclosed a guide for owners of extended aeration package plants for your use. This manual will be useful for the continued operation and maintenance of your system. I encourage you to continue having Mr. Rick Jackson retained as your operator until you are able to obtain a Class I license yourself.

If you have any questions or comments regarding this letter, please contact this office at (330) 963-1299.

Respectfully,



Laura A. Weber, P.E.
Environmental Engineer
Division of Surface Water

LAW/mt

cc: Wayne County Health Department
Rick Jackson

ec: Rich Blasick, Ohio EPA, DSW, NEDO

File: Semi-Public/Wayne/East Union Twp./Glenridge MHP (Orrville Inn)