



**Environmental
Protection Agency**

John R. Kasich, Governor

Mary Taylor, Lt. Governor

Scott J. Nally, Director

April 9, 2012

RE: GREEN ACRES CAMPGROUND
MAHONING COUNTY
NPDES PERMIT NO. 3PR00221
FY 2011 CEI

Mr. Andy Della Vecchia
Green Acres Campground
P.O. Box 176
Lake Milton, OH 44429

Mr. Della Vecchia:

On June 1, 2011, this writer conducted an inspection of the wastewater treatment system for the Green Acres Campground located at 15487 Creed Road in Milton Twp., Mahoning County. The intent of the inspection was to evaluate the condition of the system prior to opening for the summer camping season. In addition, the compliance record was also reviewed for any violations of the NPDES Permit.

Observations

Following are observations of the system made during the inspection:

1. New air supply lines were installed during the winter months. The old lines were replaced with new galvanized piping.
2. The 5-hp blower was re-built in February 2012. The 5-hp motor was rebuilt in August 2011. A backup blower is also available to provide air to the aeration and sludge holding tanks.
3. A new diffuser was installed last summer, and a new diffuser will be installed prior to starting the plant for the summer camping season.
4. A new air bleeder valve was installed on the blower system.
5. You discussed I/I impacts on the wastewater treatment that were experienced during the 2011 season, and you indicated that significant progress had been made to remove Inflow and Infiltration (I/I) from the collection system.
6. The sand filters were clean and level at the time of the inspection. You indicated that new sand will be added to ensure that the sand depth meets the minimum depth of eighteen inches.
7. The walls of the sand filters were coated a second time with a fiberglass mesh and asphaltic coating to protect their integrity and to prevent leaks through the walls.

8. The sludge holding tank, dosing system and the chlorine contact tank were cleaned since the last inspection to prevent residue from blinding the filters and inhibiting the disinfection system.
9. You indicated that you will be starting the treatment system in the next few weeks in order to activate the mixed liquor in the aeration tank. The mixed liquor was septic at the time of the inspection and is in need of aeration prior to accepting new wastewater into the system.

Compliance

The compliance record for Green Acres was reviewed as part of this inspection. The period of review was May 2011 through February 2012. Following are violations reported during the review period:

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2011	Total Suspended Solids	30-day Conc.	12	18.	5/1/2011
May 2011	Nitrogen, Ammonia	30-day Conc.	2.0	22.1	5/1/2011
May 2011	Nitrogen, Ammonia	30-day Qty.	0.038	.11711	5/1/2011
May 2011	Nitrogen, Ammonia	1-day Conc.	3.0	22.1	5/11/2011
May 2011	Nitrogen, Ammonia	1-day Qty.	0.057	.11711	5/11/2011
June 2011	Total Suspended Solids	30-day Conc.	12	15.	6/1/2011
June 2011	Nitrogen, Ammonia	30-day Conc.	2.0	10.3	6/1/2011
June 2011	Nitrogen, Ammonia	30-day Qty.	0.038	.07602	6/1/2011
June 2011	Fecal Coliform	30-day Conc.	1000	64400.	6/1/2011
June 2011	Nitrogen, Ammonia	1-day Conc.	3.0	10.3	6/22/2011
June 2011	Nitrogen, Ammonia	1-day Qty.	0.057	.07602	6/22/2011
June 2011	Fecal Coliform	1-day Conc.	2000	64400.	6/22/2011
July 2011	Nitrogen, Ammonia	30-day Conc.	2.0	20.	7/1/2011
July 2011	Nitrogen, Ammonia	30-day Qty.	0.038	.12491	7/1/2011
July 2011	Nitrogen, Ammonia	1-day Conc.	3.0	20.	7/27/2011
July 2011	Nitrogen, Ammonia	1-day Qty.	0.057	.12491	7/27/2011
August 2011	Nitrogen, Ammonia	30-day Conc.	2.0	6.35	8/1/2011
August 2011	Nitrogen, Ammonia	30-day Qty.	0.038	.04687	8/1/2011
August 2011	Dissolved Oxygen	1-day Conc.	6.0	5.6	8/3/2011
August 2011	Nitrogen, Ammonia	1-day Conc.	3.0	6.35	8/3/2011
September 2011	Nitrogen, Ammonia	30-day Conc.	2.0	33.5	9/1/2011
September 2011	Nitrogen, Ammonia	30-day Qty.	0.038	.1902	9/1/2011
September 2011	Nitrogen, Ammonia	1-day Conc.	3.0	33.5	9/7/2011
September 2011	Nitrogen, Ammonia	1-day Qty.	0.057	.1902	9/7/2011

Be advised that the violations identified above have caused the Green Acres Campground to be in Significant Noncompliance with the National Pollutant Discharge Elimination System (NPDES) Permit. All violations, especially those for ammonia, must be eliminated and the plant must come into consistent compliance with the permit. In the event the improvements made throughout the year are unable to bring the plant back into compliance, it may necessary to locate additional infiltration for removal, install a flow equalization tank to even out peak flows and prevent washout of solids from the aeration tank, or both.

GREEN ACRES CAMPGROUND

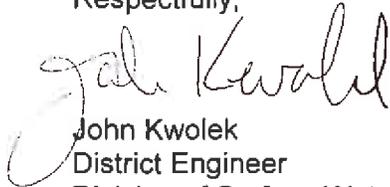
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Instances where CBOD5 levels in the effluent are low but the ammonia concentrations are high can also be an indication that insufficient alkalinity exists in the system to convert ammonia to nitrates and nitrites. The nitrification of one part of ammonia requires approximately 7.5 parts of alkalinity. In the event ammonia violations continue, it is recommended that the alkalinity concentration be checked periodically to determine if sufficient alkalinity exists in the system.

You may contact this writer at (330) 963-1251 or at john.kwolek@epa.state.oh.us to discuss any questions you may have.

Respectfully,

A handwritten signature in cursive script that reads "John Kwolek". The signature is written in black ink and is positioned to the left of the printed name and title.

John Kwolek
District Engineer
Division of Surface Water

JK/cs