Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

January 17, 2012

RE: Lake County
City of Kirtland
Operated Package Plants
Compliance Evaluation Inspections
NPDES Permit Nos. - 3PG00059, 3PG00058, 3PG00065, 3GV00014 and 3GS00017

Mayor and Council
City of Kirtland
9301 Chillicothe Road
Kirtland, OH 44094

Notice of Violations

Gentlemen:

On January 10, 2012, this writer conducted inspections of the Hickory Hill Colony, Rockwood Ledges, Shenandoah Estates, Kirtland Community Center and Kirtland Civic Center wastewater treatment plants (WWTPs). The purpose of the inspections was to evaluate the facilities' compliance status with respect to the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) permits. Your wastewater treatment plant operator, Mr. Steve Piscopo, represented the city during the inspections.

Plant Observations and Comments on NPDES Permit Requirements:

Hickory Hill Colony WWTP (NPDES Permit No. 3PG00059)
The plant was producing an effluent with satisfactory visual quality, free of solids and oil and grease. All required treatment units were in operation. The southwest and southeast filter beds had vegetation and sludge on their surfaces.

A review of the plant's discharge monitoring reports for the period of April 2011 to November 2011 revealed no effluent limitation violations.

Rockwood Ledges WWTP (NPDES Permit No. 3PG00058)
The plant was producing an effluent with satisfactory visual quality, free of solids and oil and grease. All required treatment units were in operation.

A review of the plant's discharge monitoring reports for the period of April 2010 to November 2011, revealed the following effluent limitation violation:

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	31616	Fecal Coliform	7D Conc	2000	2200.	9/1/2011

Shenandoah Estates WWTP (NPDES Permit No. 3PG00065)
The plant was producing an effluent with satisfactory visual quality, free of solids and oil and grease. All required treatment units were in operation. The south filter bed was ponded with frozen water.

A review of the plant's self-monitoring reports for the period of April 2010 through November 2011revealed the following effluent frequency violations:

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.07	6/1/2010
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.05	.05265	6/1/2010

The following frequency violations were revealed:

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	00300	Dissolved Oxygen	1/Week	1	0	07/08/2010
001	00300	Dissolved Oxygen	1/Week	1	0	07/15/2010
001	00300	Dissolved Oxygen	1/Week	1	0	07/22/2010

Kirtland Community Center WWTP (NPDES Permit No. 3GV00014)
This plant consists of an aeration tank with a very small settling tank. This plant has no tertiary treatment or satisfactory disinfection facilities. The mixed liquor appeared weak and low in activated sludge solids. Sludge was evident in the effluent trough.

Pursuant to the NPDES general permit for this facility, which became effective on October 1, 2007, the WWTP must be upgraded to meet best available demonstrated control technology by October 1, 2010. Construction of the upgraded plant was to have commenced no later than April 1, 2009. Construction was to have been completed by April 1, 2010. No construction has started. This office has yet to receive a permit-to-install (PTI) application for the upgrade of the WWTP. The City of Kirtland is in violation of its expired NPDES permit. The City of Kirtland is currently discharging pollutants to waters-of-the-state under an expired NPDES permit. This is a violation of Ohio Revised Code 6111.04. These violations are subject to enforcement action that may include a monetary penalty.

Kirtland Civic Center WWTP (NPDES Permit No. – 3GS00017)
The extended aeration plant discharge was of a satisfactory visual quality, free of solids and oil and grease. The trash trap will be pumped out in February or March of this year. The aeration tank content was grayish brown in color. The extended aeration plant discharges to an evaporative pond. No discharge to waters of the state has been reported on the Discharge Monitoring Reports.

Actions to be Taken by Permittee:

Once the weather permits, all sludge, sludge laden sand and vegetation must be removed from the surface of the filter beds and replaced with clean, Ohio EPA approved sand. Assurances must be made that 18 inches of Ohio EPA approved filter sand exists on the all the filter beds. Ohio EPA approved filter sand has a uniformity coefficient that does not exceed 3.0 and an effective size of 0.4 mm - 1.0 mm. The sand must be raked and evenly distributed across the surface of the filter bed.

Construction of the public sanitary sewer along State Route 306 is complete and the sanitary sewer is operational. As stated in this writer's letter dated September 30, 2011, the city must connect the Civic Center to the public sanitary sewer and its sewage plant must be demolished no later than

October 1, 2012. Mr. Carmelo Catania, City of Kirtland Public Works Administrator has stated that it is his intent to connect to the public sewer and demolish the plant by March 2012. A Notice of Termination (NOT) form for the General NPDES permit must be submitted to the Central Office of the Division of Surface Water after connection and demolition of plant has occurred.

The City of Kirtland must immediately upgrade the sewage system serving the Community Center. A PTI application and detailed design plans must be immediately submitted to this office. Mr. Catania has stated that if possible, it is his intent to use at the Community Center, as many units of the sewage treatment plant from the Civic Center as possible.

Pursuant to Ohio Administrative Code 3745-7-09, the owner and operator-of-record must maintain operation and maintenance records at each of the WWTPs. The records shall be housed onsite and shall be accessible for twenty-four hour inspection. Some of the formats in which the records may be maintained include, but are not limited to hard bound book with consecutive page numbering, time cards, separate operation and maintenance records, or well organized computer logs. At a minimum, the operation and maintenance records shall include the following information:

- Identification of the sewage treatment works;
- Dates & times of arrival and departure for the operator of record and any other operator required by OAC 3745-7-09;
- Specific operation and maintenance activities that affect or have the potential to affect the quality of quantity of sewage conveyed or effluent produced;
- Results of tests performed and samples taken, unless documented on a laboratory sheet;
- Performance of preventative maintenance and repairs or requests for repair of sewage conveyed, effluent produced; and
- Clear identification of the person(s) making entries.

Within 10 days of the date of this letter, please submit a letter outlining the corrective actions that will be implemented to eliminate the highlighted violations summarized in this letter. Your response should include the dates, either actual or proposed, for completion of the actions.

Should you have any questions regarding this letter, please contact the undersigned at (330) 963-1183.

Sincerely,

Marie Underwood

Marie Underwood, P.E.
Environmental Engineer
Division of Surface Water

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cc: Phil Kiefer, P.E., City Engineer
Steve Piscopo, Plant Operator