Environmental Protection Agency

, Governor
, Lt. Governor
Director

May 13, 2010

RE: STARK COUNTY
VILLAGE GREEN ALLOTMENT WWTP
NPDES #3PG00087

Mr. James Jones, Sanitary Engineer
Stark County Sanitary Engineering Department
P.O. Box 7906
1701 Mahoning Road NE
Canton, OH 44705

Dear Mr. Jones:

A pre-permit compliance evaluation inspection of the sewage treatment plant serving the Village Green Allotment was conducted by Dean Stoll and this writer on May 11, 2010. Present during the inspection was Mark Daverio, O&M Supervisor, Stark County Sanitary Engineer.

The existing sewage treatment system consists of a manually cleaned bar screen followed by a 20,000 gpd extended aeration plant, secondary clarification, dosing chamber, surface sand filter beds, chlorine contact tank with tablet chlorination and tablet dechlorination, post aeration and an aerated sludge holding tank. The system discharges to Beech Creek.

The mixed liquor in the aeration tank had a very good color. There were solids passing from the clarifier into the dosing station. Due to the poor design (shallow depth) of the clarifier, this occurs frequently. The discharge from the dosing station onto the sand filters was brown in color due to the solids escaping from the clarifier. One surface sand filter bed was covered with a significant amount of solids. Additionally, wastewater was leaking through the side walls of the sand filter bed. Wastewater could be seen escaping the bed through cracks in the concrete walls and forming puddles on the ground. The two additional sand filter beds contained no solids. It appears that this wastewater treatment system is still subject to excessive hydraulic loads. However, the contents of the chlorine contact tank were clear, and the system was producing a clear effluent. The attached photos show the clarifier, dosing station discharge and sand filter beds.

The surface sand filter bed walls must be repaired immediately. Bypassing around any portion of your treatment system violates the conditions of your NPDES permit, specifically Part III, item 11.

Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087-1924

330 | 963 1200
330 | 487 0769 (fax)
www.epa.ohio.gov

A review of your Discharge Monitoring Reports (DMRs) covering the period November 2008 through March 2010 revealed the following effluent violation:

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
July 2009	001	Fecal Coliform	7D Conc	2000	3500.	7/1/2009

As discussed with Mr. Daverio during the inspection, new water quality standards were adopted by Ohio EPA. These rules require changes to be made to the bacteria monitoring and limits in all new and renewed NPDES permits. The new standards will require the implementation of E. coli limits and monitoring requirements. The E. coli standards will be stated in the renewed NPDES permit. Information regarding the new E. coli water quality standards can be found on the Ohio EPA, Division of Surface Water Web site: www.epa.ohio.gov/dsw.

The renewal NPDES permit for this facility will be public noticed in the near future. You will have 30 days from the date of public notice to submit written comments to Ohio EPA regarding the draft permit.

Should you have any questions or comments regarding this letter, please contact this office at (330) 963-1255.

Sincerely,

Todd Surrena

Todd Surrena
Engineering Geologist
Division of Surface Water

TMS/mt

Attachments

cc: Mark Daverio, O&M Supervisor, Stark County Sanitary Engineer

File: Public/Permit Compliance

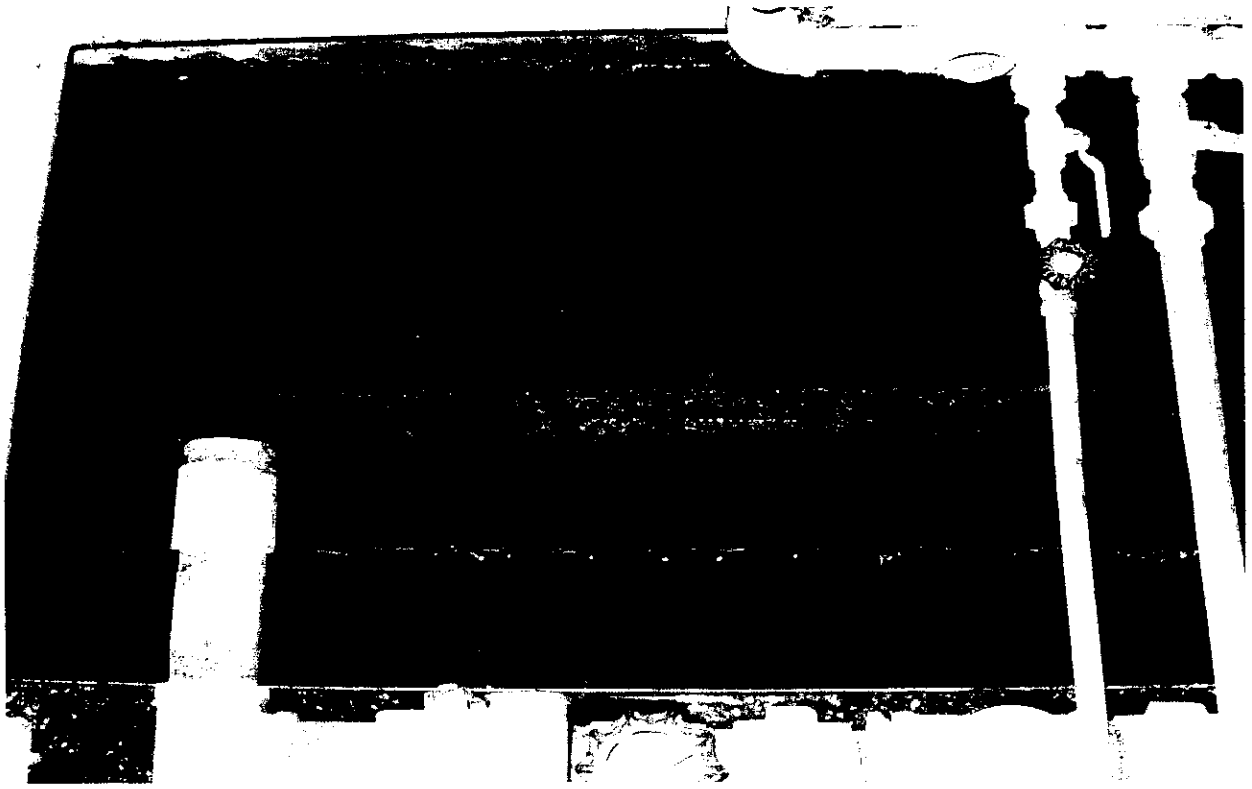

Photo 1 shows solids passing through the clarifier into the trough leading into the dosing station.

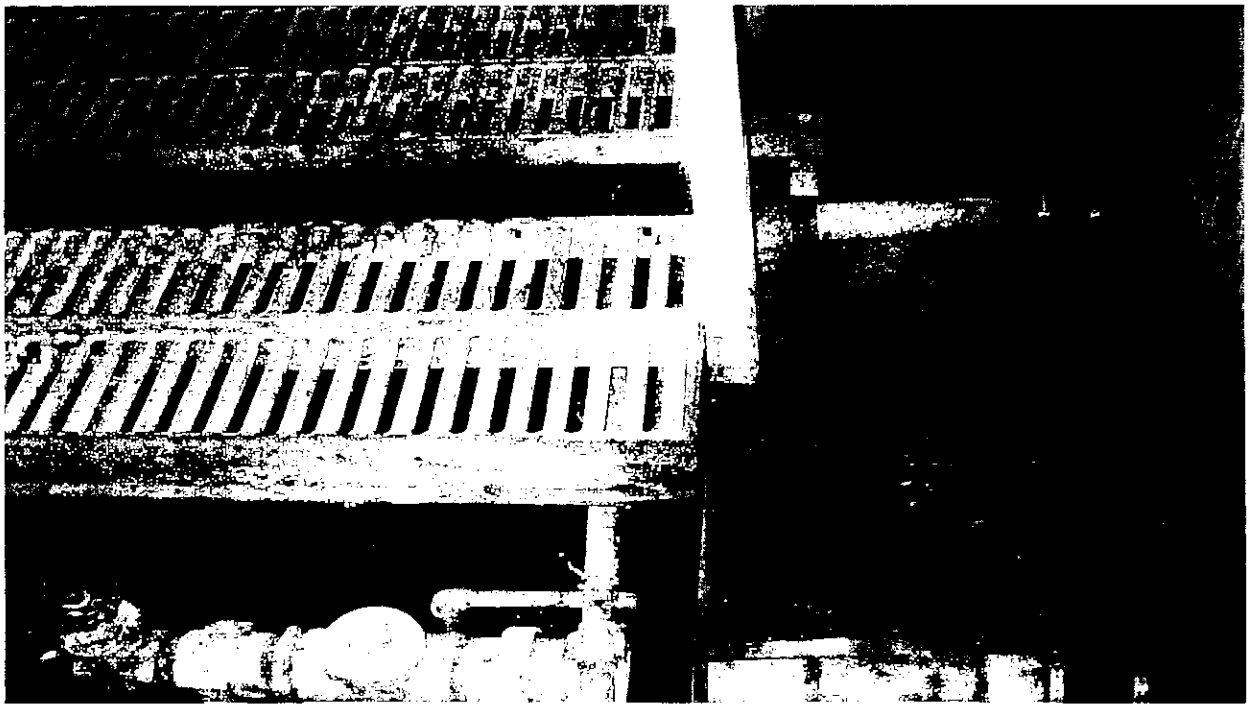

Photo 2 shows solids floating on top of the clarifier.

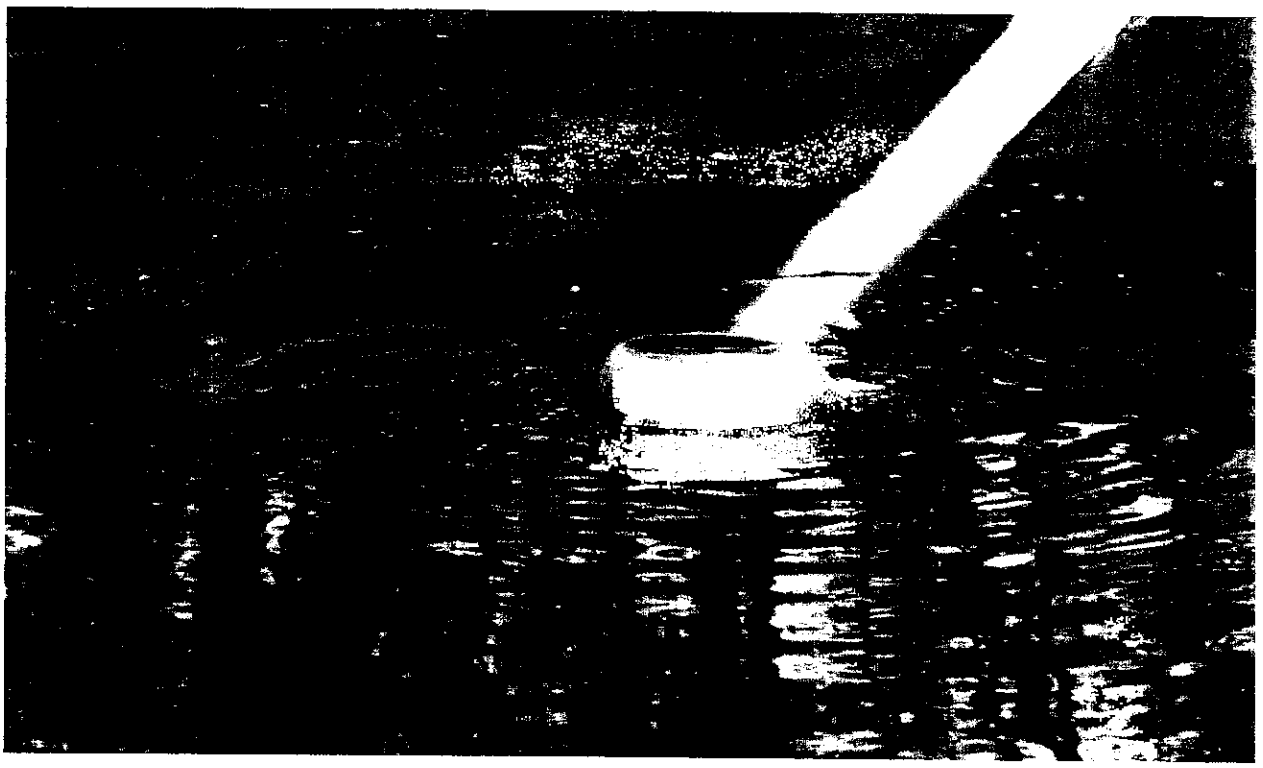

Photo 3 shows water being discharged from dosing station onto sand filter bed.

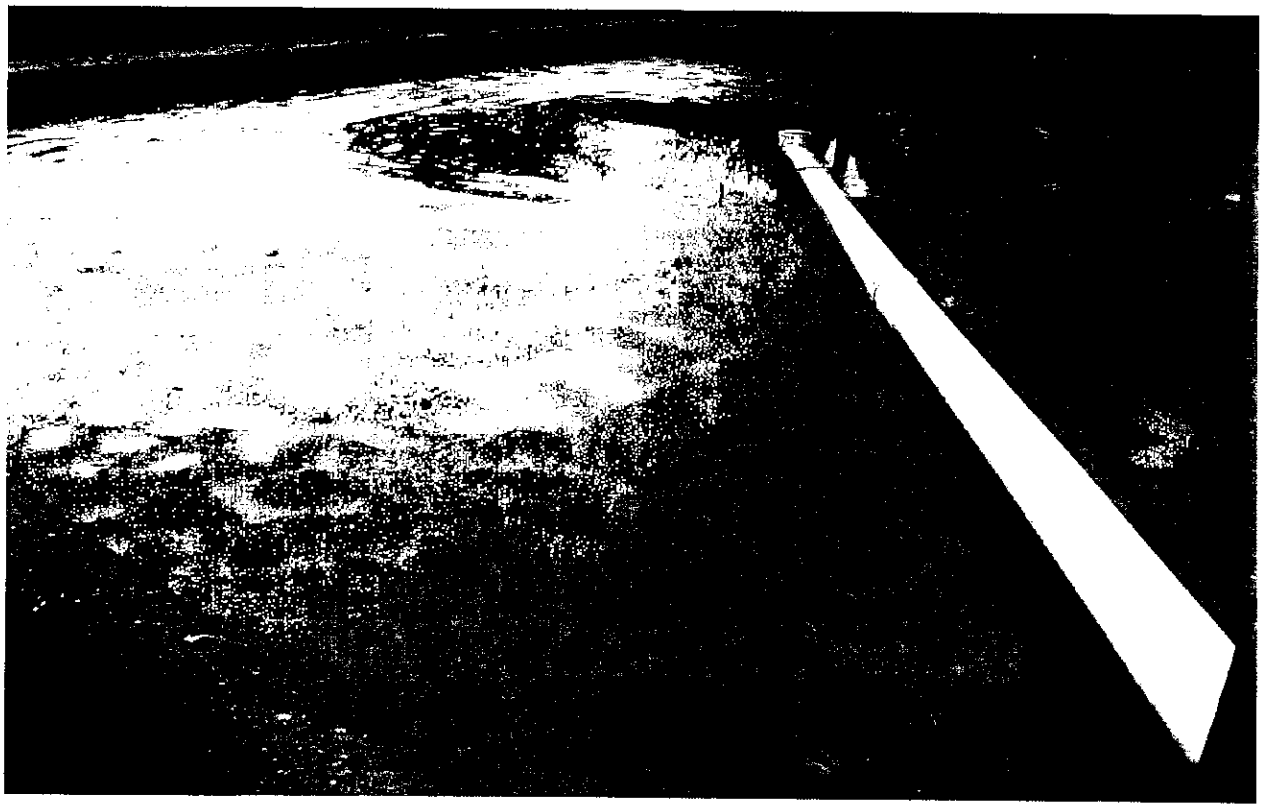

Photo 4 shows significant amount of solids covering sand filter bed.

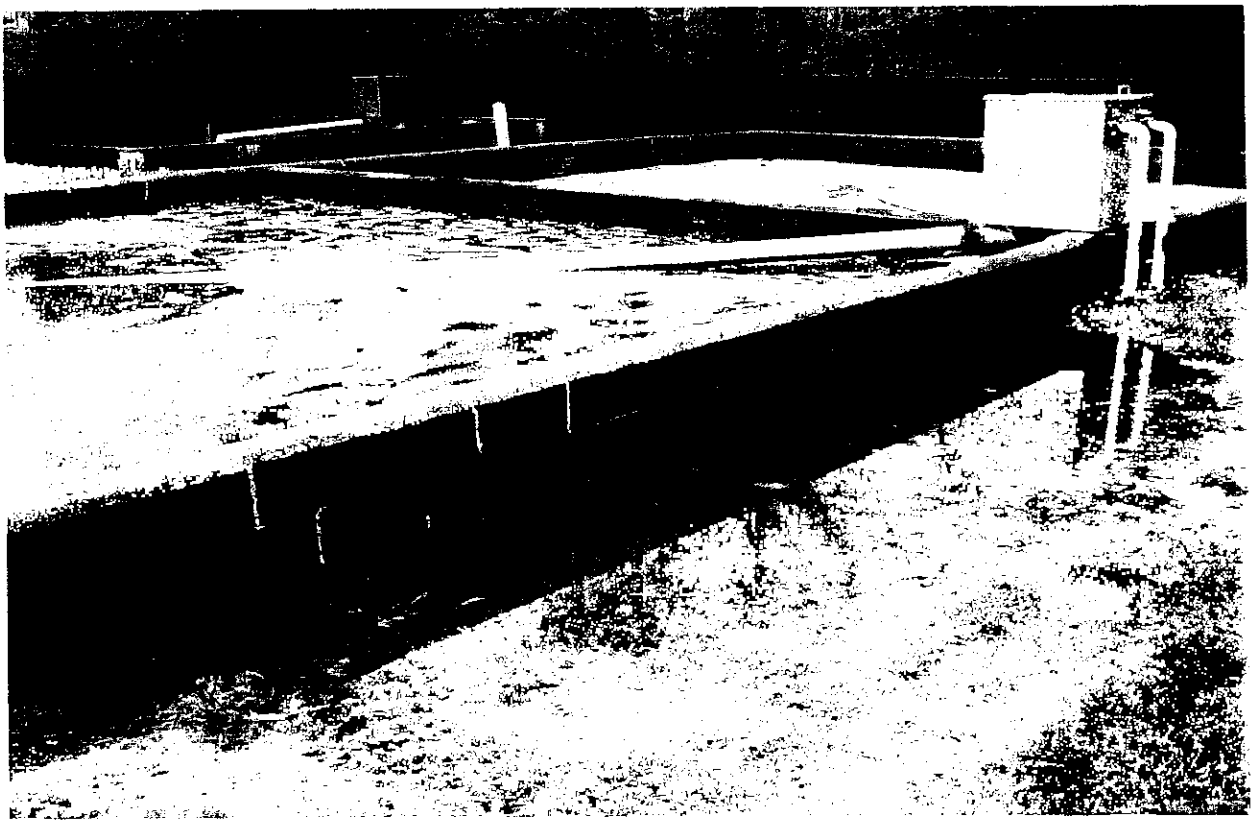

Photo 5 shows wastewater leaking from cracks in concrete wall of sand filter bed.

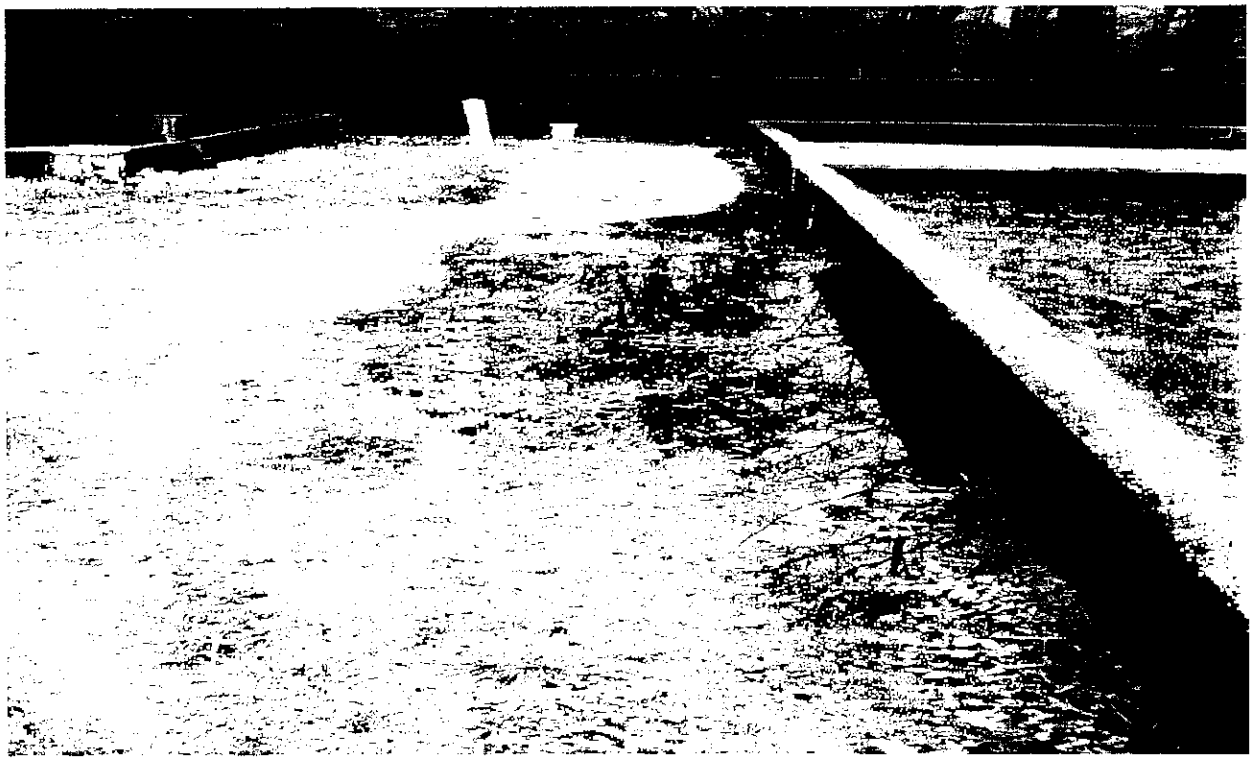

Photo 6 shows wastewater leaking from cracks in concrete wall of sand filter bed.