



R. Kasich, Governor
J. Taylor, Lt. Governor
J. Sapp, Director

May 14, 2013

Rick Terry, Interim Building Maintenance Supervisor
Scioto Village Juvenile Correctional Facility
5993 Home Road
Delaware, OH 43015

**Re: Scioto Village Juvenile Correctional Facility
NPDES Permit 4IN00026/ OH0054216
Reconnaissance Inspection
Delaware County**

Dear Mr. Terry:

On April 25, 2013, a Reconnaissance Inspection was conducted at the wastewater treatment plant serving the Scioto Village Juvenile Correctional Facility. Present for the inspection were Rob Curtin representing the Scioto Village facility and myself of the Ohio EPA, Central District Office, Division of Surface Water.

The purpose of the inspection was to evaluate compliance with the terms and conditions of your NPDES permit and to evaluate the operation and maintenance of the plant.

Please refer to the Summary of Findings and Comments section of this report for additional information regarding the inspection. If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3848 or e-mail at mike.sapp@epa.state.oh.us.

Sincerely,

Michael Sapp
Compliance and Enforcement Unit
Division of Surface Water
Central District Office

c: Rob Curtin w/attachments

ec: Michael Sapp

MS/nsm Scioto Village 13

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING

Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4IN00026	OH0054216	FI	S	Public
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
4/25/2013	9:30 AM	11:00 AM	No	No

SECTION B: FACILITY DATA

Name and Location of Facility Inspected	Permit Effective Date
Scioto Village Juvenile Correctional Facility 5993 Home Road Delaware, OH 43015	2/1/2012
	Permit Expiration Date
	1/31/2017
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Rob Curtin, Class II Operator	(740) 881-3535
Name and Title of Responsible Official	Phone Number
Rick Terry, Interim Building Maintenance Supervisor	(740) 881-3535

SECTION C: AREAS EVALUATED DURING INSPECTION

Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated

S	NPDES Compliance	
S	Operations & Maintenance	
S	Facility Site Review	
S	Collection System	
S	Flow Measurement	
S	Receiving Waters	
S	Laboratory	

Comments:

Signatures

 5/2/13	 5/2/13
Michael Sapp, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office

Compliance Data for Scioto Village Juvenile Correctional Facility * between 4/1/2011 to 4/1/2013

Summary

Permit Effluent Limit Violations: 1
 Permit Effluent Code Violations: 0
 Permit Effluent Frequency Violations: 6
 Compliance Schedule Violations: 0

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2012	001	CBOD 5 day	7D Conc	15	20.75	6/1/2012

Frequency Violations						
Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
November 2011	001	Total Suspended Solids	2/Week	2	1	11/22/2011
November 2011	001	CBOD 5 day	2/Week	2	1	11/22/2011
November 2012	001	Total Suspended Solids	2/Week	2	1	11/22/2012
November 2012	001	CBOD 5 day	2/Week	2	1	11/22/2012
November 2012	601	Total Suspended Solids	1/Week	1	0	11/22/2012
November 2012	601	CBOD 5 day	1/Week	1	0	11/22/2012

ADDITIONAL INFORMATION

Scioto Village Juvenile Correction Facility
Department of Youth Services
4IN00026 - OH0054216

1/3/2013

General

The Scioto Village wastewater treatment plant has a design treatment capacity of 200,000 gpd with a direct discharge to the Scioto River (O'Shaughnessy Reservoir). Wet stream process provided at the facility include an influent pump station, influent bar screen with communitation, primary settling, aeration, clarification, tertiary sand filtration, chlorination and dechlorination. Solids handling consist of a sludge holding tank. Liquid sludge is hauled to the City of Columbus for further processing and disposal; solids removed from the sand filters are collected and placed in a dumpster for disposal at an approve landfill.

The north aeration unit is no longer operational and has been in this condition for several years. The north aeration unit has been salvaged for parts to keep the south unit in operation. Consequently, the plant has a functional treatment capacity of only 100,000 gpd. The facility has plans to rehabilitate the north unit in the near future for use in the event that problems are encountered on the south aeration unit. Rob indicated that the rehabilitated north unit will be placed in service once rehabilitation is complete and the older south unit with be used as a back-up.

1/3/2013

1. The average daily flow at outfall 001, for the time period from February 2011-March 2013 was 19,000 gpd. The maximum daily flows experienced during that time period was 85,000 gpd experienced in April 2012. The average flow has decreased since the previous inspection in April 2011 (20,000 gpd) due to a decrease in the juvenile inmate population. Air in the aeration unit is shut-off during high flow events to facilitate the retention of solids in the plant.
2. A magmeter in the influent pump station is used as the final effluent flow value for NPDES reporting purposes. A high level sensor in the wet well activates an audible alarm.
3. At the time of the inspection, the following general observations were made with operational practices at the facility:
 - Sludge is wasted from the aeration tank, approximately 1000 gallons/week, based on visual observation of the mixed liquor and 30-minute settleability tests.
 - Rob Curtin, who holds a Class III license, oversees the operations at the plant and signs the monthly operating reports.

1/3/2013

1/3/2013

- The plant is normally staffed 8 hours/day Monday through Friday with periodic checks by maintenance engineers on weekends and holidays.
 - PACE Analytical (formerly Zande Labs) collects samples every Thursday for analysis.
 - Effluent samples are stored in a refrigerator and maintained at 4-degrees Celsius.
 - Rob Curtin performs analyses for dissolved oxygen, pH, residual chlorine and temperature, the remaining parameters are analyzed by PACE.
 - The collection system serving the plant is all gravity with the exception of one small lift station
 - Select Transportation hauls 50,000 gallons of sludge from the plant twice a year in January and July
4. The facility has reported only one effluent violation since the previous inspection was performed in April 2011. The CBOD violation was attributed to possible laboratory error following discussions between the operator and Jon vanDommelen in the Ohio EPA Compliance Assistance Unit.
 5. The Delaware County Commissioners have completed construction of a regional wastewater treatment facility (Lower Scioto Water Reclamation Facility) at the intersection of Moore and Dublin Roads, in Concord Township, west of O'Shaughnessy Reservoir. Please be advised that the Scioto Village facility will be expected to make arrangements for the abandonment of the existing wastewater treatment plant and make connection to the Delaware County sanitary system when it is within a reasonable close proximity to your facility. Enforcement of this requirement is conditional upon the reasonable availability and proximity of the Delaware County sanitary sewer system. Based on discussions with the sanitary engineer it will likely be several years until gravity service is made available to the Riverview facility.
 6. Both the dissolved oxygen and pH meters were being calibrated in accordance with manufacturer's recommendations.
 7. Significant weed growth was observed on the surface of the north sand filter which was in service at the time of the inspection. Rob and I discussed the time and labor involved in maintaining the filters in a weed free condition and concluded that that filter fabric on the filters might facilitate solids removal and deter weed growth. Additionally, this would free up the operator for other tasks around the facility.

8. Please ensure that the operator log books contain the date and times of arrival and departures for the operator of record.
9. The outfall sign associated with outfall 001 had fallen over and was not readily visible from the O'Shaughnessy Reservoir. Please ensure that the outfall signage remains upright at all times at the location of the submerged outfall.
10. The liquid chlorine feed system is not flow paced. I would encourage you to evaluate the feasibility of replacing the current system of chlorination and dechlorination with ultraviolet disinfection during the proposed rehabilitation project.
11. The operator monitors the depth of sludge in the sludge storage tank by climbing onto the roof of the building and visually inspection the depth in the tank through inspection ports in the roof. The practice present safety concerns for the operator and I would recommend that you evaluate a safer means of monitoring solids inventories during the proposed rehabilitation project