



Environmental
Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

March 4, 2011

RE: MEDINA COUNTY
VILLAGE OF SEVILLE
SEVILLE WWTP CEI
(OH0027375 / 3PB00044)

Mayor and Council
Village of Seville
44 West Main Street
Seville, OH 44273

Dear Mayor and Council:

On February 3, 2011, a Compliance Evaluation Inspection (CEI) was conducted at the Village of Seville Wastewater Treatment Plant (WWTP). Present during the inspection were Mr. Kevin Bittaker and Ms. Kate Lynch, representing the Village of Seville, and this writer. The purpose of the inspection was to evaluate the facility's compliance with NPDES Permit effluent limits, as well as the terms and conditions of its NPDES Permit.

Evaluated during the February 3rd inspection were the treatment plant processes, effluent discharge quality, and general compliance with the intent of the permit. The last (CEI) inspection of the Seville WWTP was May 31, 2007.

Inspection of the WWTP components resulted in the following observations:

- 1) All flow to the WWTP is by gravity, where it is collected and then pumped by influent pumps to the head of the WWTP.
- 2) Preliminary treatment for the WWTP consists of influent bar screening, followed by grit removal. Screenings are carried down a conveyor to a wheelbarrow, and are subsequently hauled to a dumpster for disposal. The bar screen and grit removal equipment were operating satisfactorily.
- 3) Following the grit removal, wastewater enters two Sequencing Batch Reactors (SBRs), of which both were in use at the time of the inspection. SBR Tank A (east tank) was in the anoxic fill mode, while SBR Tank B (west tank) was in the react mode.
- 4) After receiving treatment in the SBRs, the wastewater flows into a circular final settling tank. Contents of the settling tank were clear, but there was some floating scum on the surface of the water. The effluent trough of the settling tank was clean and free of solids. No effluent was being discharged over the settling tank trough weir at the time of the inspection.
- 5) Treated wastewater is disinfected utilizing an Ultra Violet disinfection system, followed by post aeration. At the time of the inspection the UV was not in operation, as disinfection is not required from November 1st through April 30th.

- 6) No effluent was being discharged at the time of the inspection, due to the phase of treatment the SBRs were in.

A review of the electronic Discharge Monitoring Reports (eDMRs) reported to the Ohio EPA since the last inspection (May 2007) found the following numeric effluent violations reported for the Village of Seville WWTP:

**VILLAGE OF SEVILLE
 NPDES PERMIT NO. 3PB00044
 NUMERIC EFFLUENT VIOLATIONS
 (May 1, 2007 through Jan. 1, 2011)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2007	Zinc, Total Recoverable	1D Conc	223	226.	6/19/2007
August 2007	Copper, Total Recoverable	30D Qty	0.044	.09834	8/1/2007
August 2007	Zinc, Total Recoverable	1D Conc	223	248.	8/21/2007
August 2007	Zinc, Total Recoverable	1D Qty	0.4	1.10858	8/21/2007
August 2007	Copper, Total Recoverable	1D Qty	0.068	.09834	8/21/2007
August 2008	Copper, Total Recoverable	30D Conc	28.0	31.	8/1/2008
January 2009	Copper, Total Recoverable	30D Conc	28.0	40.	1/1/2009
April 2009	Copper, Total Recoverable	30D Qty	0.053	.5841	4/1/2009
April 2009	Copper, Total Recoverable	30D Conc	28.0	442.666	4/1/2009
April 2009	Zinc, Total Recoverable	1D Conc	416.0	42372.	4/17/2009
April 2009	Zinc, Total Recoverable	1D Qty	0.788	55.3304	4/17/2009
April 2009	Copper, Total Recoverable	1D Conc	47.0	1293.	4/17/2009
April 2009	Copper, Total Recoverable	1D Qty	0.089	1.68843	4/17/2009
March 2010	Copper, Total Recoverable	30D Qty	0.053	.06313	3/1/2010
March 2010	Copper, Total Recoverable	30D Conc	28.0	31.	3/1/2010
May 2010	Nitrogen, Ammonia (NH3-N)	30D Conc	1.5	1.5125	5/1/2010
May 2010	Nitrogen, Ammonia (NH3-N)	7D Conc	2.3	4.5	5/15/2010
May 2010	Nitrogen, Ammonia (NH3-N)	7D Qty	4.4	5.40309	5/15/2010
December 2010	Copper, Total Recoverable	30D Conc	28.0	172.	12/1/2010
December 2010	Copper, Total Recoverable	30D Qty	0.053	.21419	12/1/2010
December 2010	Copper, Total Recoverable	1D Conc	47.0	172.	12/21/2010
December 2010	Copper, Total Recoverable	1D Qty	0.089	.21419	12/21/2010

Various items discussed with the Seville WWTP personnel during the inspection include the following:

- 1) Grit and screenings removed at the Seville WWTP are deposited, along with other solid waste, into a solid waste dumpster on-site, and are hauled weekly by the C. Martin Trucking company to the Medina County Solid Waste facility for disposal.

- 2) Sludge from the WWTP is hauled to Wayne County by Agri-Sludge, for disposal by land application. Land applied sludge is approximately 2 to 3% solids, and is hauled approximately 2x / month all year.
- 3) Effluent sample analysis is conducted by Seville WWTP personnel for the following parameters: BOD, TSS, Ammonia, Dissolved Oxygen, Fecal Coliform, Temperature, and pH. Heavy Metals and Oil & Grease analyses are conducted by Ginisko Labs of Harpster, OH.
- 4) The Village of Seville WWTP lab does not partake in the voluntary US EPA DMRQA Quality Assurance Study program to verify the accurateness of their lab results. **It is strongly recommended that the Village enroll in this program.**
- 5) The Seville WWTP average daily flow is approximately 0.325 MGD. During high precipitation events, the flow can approach approximately 2 MGD at the plant. Studies are underway for the possible installation of a 2.8 Million Gallon flow equalization tank.
- 6) There is a standby generator at the WWTP, which can supply enough electrical power to operate some, but not all, of the treatment processes. The generator is test run on a weekly basis.
- 7) There are two full time employees at the WWTP (Mr. Bittaker and Ms. Lynch), both of which have their Class III Wastewater Operators License. The WWTP is manned Monday through Friday, from 7 AM to 3 PM, with no personnel on the weekends unless in an emergency. The WWTP does have a SCADA system which monitors conditions at the plant, and alerts an operator in case of malfunction.
- 8) There are some Industrial Users (IUs) which discharge to the Seville WWTP. According to Mr. Bittaker, an Industrial Waste Survey (IWS) has not been conducted at any of these IUs. Reviewing the numeric effluent violations contained within this document, it appears that zinc and copper can occasionally be a problem.

In an effort to begin searching for the cause of these metals excursions, **the Village should conduct an IWS on the IUs discharging to the sewer system.**

- 9) The current NPDES Permit has a couple items which were due to be acted upon, or submitted to the Ohio EPA, and have not been completed:

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- a) A permanent sign was to have been posted where the WWTP effluent discharges to the receiving stream. The sign details the source of the discharge, OEPA permit number, and Village contact information. The sign was to have been erected by February 1, 2008. **Specific information on the sign requirements can be found in Part II, Item V, of the NPDES permit.**

- b) Annual SSO (Sanitary Sewer Overflow) reports are due to the Ohio EPA by March 31st of each year. The first annual SSO report was due March 31, 2008, and each year thereafter. The SSO reports also include any data on occurrences of water in basements which may be reported to the Village by sewer system users. **Specific information on the SSO reports can be found in Part II, Item F, of the NPDES permit.**

- c) Although not due until October 1, 2011, please note that an evaluation of the ability of the Seville WWTP to meet the final effluent limits for mercury is required to be submitted. The 30 day average limit for mercury, as currently contained in the NPDES permit, is 1.2 ng/l. **Specific information on the mercury monitoring requirements, and possible mercury variance request, can be found in Part I. C of the NPDES permit.**

- d) **An Operator of Record Notification Form** (EPA Form 5121 www.epa.state.ohio.gov/ddagw/opcert.aspx) needs to be submitted to the Ohio EPA, indicating the responsible operator for the Seville WWTP .

The Village of Spencer should continue with all efforts that will enable the WWTP to consistently meet its NPDES Permit limits. Written correspondence regarding the Village's actions on the above items should be submitted to this office with 14 days of the receipt of this letter.

Should you have any questions or comments regarding the inspection report or this letter, please contact me at this office, or call (330) 963-1110.

Respectfully,



Charles E. Allen
Environmental Engineer
Division of Surface Water

CEA/mt