



State of Ohio Environmental Protection Agency

**Southeast District Office**

2195 Front Street  
Logan, Ohio 43138

TELE: (740) 385-8501 FAX: (740) 385-6490  
www.epa.state.oh.us

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

May 30, 2008

**Re:** Guernsey County  
Village of Quaker City  
Compliance Inspection  
Correspondence (PWW)

Mayor and Council  
Village of Quaker City  
P.O. Box 156  
Quaker City, Ohio 43773

Dear Mayor and Council:

On May 14, 2008, Randy Spencer with the Ohio EPA water quality unit and myself conducted a Compliance Sampling Inspection (CSI) of the Quaker City wastewater treatment facility. The inspection consisted of collecting a 24-hour composite sample of your treated effluent and analyzing for your permit parameters. A walk through compliance inspection of the facility was also conducted during this time with your operator, Sean Nicely. The purpose of the inspection was to determine the facility's compliance status with the terms and conditions of NPDES Permit Number OPA00003\*GD.

As a result of my inspection, the following observations were made.

1. At the time of my inspection I observed a large seep area along the steps leading to the primary clarifier. According to Mr. Nicely, this area has been wet in the past and receives less seepage when the water level drops to the bottom of the trough in the clarifier. This is evidence that a small leak may be present near the top of the primary clarifier wall. Please inspect the primary clarifier wall and make the necessary repairs to prevent this leak.
2. During my inspection it was observed that a post in the perimeter fence of the trickling filter had broken causing the rock filter media to spill onto the ground. Repairs should be made to this trickling filter immediately to prevent further loss of rock media onto the adjacent ground area.
3. At the time of my inspection the chlorination system was in operation although the de-chlorination system had not yet been placed on-line and initial residual chlorine levels were above 1.0 mg/l. The lack of de-chlorination was noted to Mr. Nicely and later that day the system was placed on-line and residual levels the following day were found to be within your permit limit.

On May 8, 2008 I received a letter from the village listing I&I corrective actions which were completed in the past few years and a list of scheduled repairs for 2008. According to Mr. Nicely peak flows following storm events are approximately double the average daily flows which typically cause permit violations. All efforts should be made to complete the scheduled tasks listed for 2008 and take a proactive approach to educate residents about the prohibition of clean water connections.

At the time of my inspection, the facility appeared to be in substantial compliance with the terms and conditions of your NPDES permit. Enclosed is a copy of my detailed inspection report. Within **30** days upon receipt of this letter, please provide a letter addressing the issues listed above.

If you have any questions please call me at (740) 380-5416.

Sincerely,



Jake Greuey  
District Representative  
Division of Surface Water

JJG/dh

Enclosure

c: Eric Phillips, Operator, Envirotec Environmental Engineering

# NPDES Compliance Inspection Report

## A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
0PA00003*GD	OH0021351	May 14, 2008	S	S	1

## B. FACILITY DATA

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Quaker City WWTP State Route 265 Quaker City, Ohio	9:30 a.m.	July 1, 2003
	Exit Time	Permit Expiration Date
	10:00 a.m.	June 30, 2008

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Sean Nicely, Operator, Envirotec Environmental	
Name, Address and Title of Responsible Official	Phone Number
Mayor and Council Village of Quaker City P.O. Box 156 Quaker City, Ohio 43755	

## C. AREAS EVALUATED DURING INSPECTION

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>N/A</u> Pretreatment
<u>S</u> Records/Reports	<u>*</u> Laboratory	<u>S</u> Compliance Schedules
<u>S</u> Operations & Maintenance	<u>S</u> Effluent/Receiving Waters	<u>S</u> Self-Monitoring Program
<u>M</u> Facility Site Review	<u>S</u> Sludge Storage/Disposal	<u>    </u> Other
<u>M</u> Collection System		

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

## D. SUMMARY OF FINDINGS/COMMENTS (attach additional sheets if necessary)

See attached letter.

  
 Jake Greuey, Inspector, Ohio EPA, Southeast District Office

5/30/08  
 Date

  
 Timothy M. Campbell, Reviewer, Ohio EPA, Southeast District Office

5/30/08  
 Date

Guernsey Co.  
Village of Quaker City  
Corresponding (paw)



Ohio Environmental Protection Agency

## INTER-OFFICE COMMUNICATION

TO: Jake Greuy, DSW, SEDO  
FROM: Randy Spencer, DSW, WQ, SEDO  
DATE: December 1, 2008  
RE: Village of Quaker City WWTP, 0PA00003\*GD

A compliance sampling event was performed at the Village of Quaker City, State Route 265, Guernsey County, Village of Quaker City, State of Ohio. The WWTP was covered under NPDES permit and had a designation of Ohio permit number 0PA00003\*GD. The sampling event occurred on May 14<sup>th</sup> and 15<sup>th</sup> 2008. The effluent from the WWTP is discharged to the Leatherwood Creek.

Initial field parameters of pH, Dissolved Oxygen, Conductivity and Temperature were taken with a YSI 556 MPS unit which was calibrated both before and after sampling. An ISCO automatic portable composite sampler model 3700 was used to obtain a composite effluent sample from outfall 001. The sample container was a large glass container cleaned and rinsed per Ohio EPA protocol and procedures. The composite sample was refrigerated in the ISCO sampler with ice and was below 5' centigrade upon retrieval. All tubing was inert teflon lined tubing. Observed effluent was clear in nature and had a slight chlorine odor. Dissolved oxygen and pH values were within permit limits at the time of the grab sampling and within the composite sample. Samples of the effluent and receiving stream were also taken to perform an acute toxicity bioassay. A full copy of the bioassay report is attached. All samples taken by Ohio EPA were preserved pursuant OEPA standard operating procedures, parameter dependent. All samples were placed on ice and transported to the Division of Environmental Services under chain of custody.

Chlorine and Fecal coliform were above the permit limits. Laboratory results pertaining to metals, nutrients and demand parameters are attached in the following tables.

Should you need any additional information or modifications to the tables or have any questions please contact me.

rds

**Ohio Environmental Protection Agency**  
**Division of Surface Water**  
**Southeast District Office**  
**Compliance Field Data Table 1**

Entity: Village of Quaker City Wastewater Treatment Plant  
 Plant: Guernsey Co.  
 Permit: OPA00003\*GD  
 Date: 12-1-2008

Field Parameters for Quaker City WWTP, in Guernsey County,  
 Ohio Permit: OPA00003\*GD. Effluent sampled on 10-22-2007 to 10-23-2007.

Station	Date	Time	Parameter	Units	OEPA Value	Permit Limits
001	5-14-2008	9:45	pH	S.U.	8.85	6.5 – 9.0
			Temp.	°C	13.82	-----
			Dissolved O <sub>2</sub>	mg / l	8.19	5.0
			Conductivity	mhos/cm <sup>3</sup>	628	-----
			Cl <sub>2</sub>	mg/l	2.20	0.038
001	5-15-2005	10.20	pH	S.U.	8.26	6.5 – 9.0
			Temp.	°C	14.09	-----
			Dissolved O <sub>2</sub>	mg / l	7.04	5.0
			Conductivity	mhos/cm <sup>3</sup>	590	-----
			Cl <sub>2</sub>	mg/l	0.01	0.038
			Flow	mg/d	0.084	-----
001 Composite	5-15-2008	10.20	pH	S.U.	8.83	-----
			Temp.	°C	4.09	-----
			Dissolved O <sub>2</sub>	mg / l	12.98	-----
			Conductivity	mhos/cm <sup>3</sup>	714	-----

**Ohio Environmental Protection Agency**  
**Division of Surface Water**  
**Southeast District Office**  
**Compliance Laboratory Data Table 2**

Entity: Village of Quaker City Wastewater Treatment Plant  
 Plant: Quaker City, Guernsey Co.  
 Permit: OPA00003\*GD  
 Date: 12-01-2008

Field Parameters for Village of Quaker City WWTP, in Guernsey County,  
 Ohio Permit: OPA00003\*GD. Effluent sampled on 5-14-2008 to 5-15-2008.

Station	T <sup>1</sup>	Parameter	Units	Ohio EPA		Permit Limits	
				Conc.	Loading (kg / day)	Conc.	Loading (kg / day)
001	C	CBOD <sub>5</sub>	mg/l	<2.0	---	22	6
	C	TSS	mg/l	16	5.1	30	9
	C	TDS	mg/l	440			
	C	COD	mg/l	22			
	C	NH <sub>3</sub>	mg/l	<0.05	---	2.25	0.7
	C	Nitrate+Nitrite	mg/l	7.15			
	C	TKN	mg/l	1.38			
	C	P total	mg/l	1.54			
	C	As	ug/l	<2.0			
	C	Cd	ug/l	<0.20			
	C	Pb	ug/l	3.2			
	C	Se	ug/l	<2.0			
	C	Alkalinity	mg/l	126			
	C	Chloride	mg/l	87.7			
	C	Al	ug/l	227			
	C	Ba	ug/l	31			
	C	Ca	mg/l	59			
	C	Cr	ug/l	7.8			
	C	Cu	ug/l	11.9			
	C	Hardness	mg/l	197			
C	Fe	ug/l	896				
C	Mg	mg/l	12				
C	Mn	ug/l	108				
C	Ni	ug/l	5.1				
C	K	mg/l	6				
C	Na	mg/l	63				
C	Sr	ug/l	244				
C	Zn	ug/l	31				
C	Hg	mg/l	<0.20				
G		<i>E. coli</i>	cfu	2100			
G		Fecal coliform	cfu	3700		2000	

<sup>1</sup> Sample type C = Composite G = Grab < OR --- less than detection limit or no value.

\*\* Loadings Calculated by ( mg / l x MGD x 3.785 ) where MGD for the sample period = 0.006 mgd. Results Rounded