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State of Ohio Environmental Protection Agency

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Central District Office

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Columbus, OH 43216-1049

Certified Mail #91 7108 2133 3932 4449 8782

June 19, 2009

Mayor Robert Dile and Village Council
Danville Administration Building
512 South Market Street
P. O. Box W
Danville, OH 43014

**Re: Danville STP
NPDES permit: 4PC00100**

Dear Mayor Dile and Village Council:

Attached is the Compliance Evaluation Inspection Report for the Danville Sewage Treatment Plant located at Richards Street and operating under NPDES permit 4PC00100.

There are several items in the Attachment section of the report which require a written response. Please **respond in writing within 30 days** of the receipt of this letter/report.

Should you have any questions, call me at 614-728-3846.

Sincerely,

Larry Korecko
Environmental Specialist
Enforcement and Compliance
Division Surface Water
Central District Office

Enclosure

c: Robert Shipley, Village Administrator
Lonnie McGhee, McGhee's Technical Water Services

LK/nsm Danville STP 5-11-09 cover letter CEI

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

NPDES Compliance Inspection Report

A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
4PC00100	OH0024872	05-11-2009	C	S	1

B. FACILITY DATA

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Danville Sewage Treatment Plant Richards Street Danville, OH		02/01/2006
	Exit Time	Permit Expiration Date
		01/31/20011

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Wes Craft, contract operator Robert Shipley, Village Administrator	419-886-4716 740-599-6888 Vil. Of Dan
Name, Address and Title of Responsible Official	Phone Number
Robert Dile, Mayor, 512 South Market St, P.O. Box W, Danville, OH 43014	740-599-6888

C. AREAS EVALUATED DURING INSPECTION

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

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

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

- ~ A program must be established to begin looking for inflow/infiltration (I/I) sources and then a means of eliminating the worst cases if I/I.
- ~ Please respond to question of how many aerators are operable
- ~ Please begin to check lagoon sludge levels again
- ~ Look into having current generator be able to run more equipment or provide a second generator and provide "quick connects" for equipment that need to be run by a generator.
- ~ Have effluent flow meter calibrated by a qualified outside firm
- ~ Please respond to question on status of new monitoring well

Larry Korecko
Larry Korecko, Inspector, Ohio EPA, Central District Office

6-17-09
Date

Erin Sherer
Erin Sherer, Reviewer, Ohio EPA, Central District Office

6-17-09
Date

E. PERMIT VERIFICATION

Inspection Observations Verify the Permit	Yes	No	N/A	N/E
a. Correct name and mailing address of permittee	X			
b. Correct name and location of receiving waters	X			
c. Product(s) and production rates conform with permit application (industries)			X	
d. Flows and loadings conform with NPDES permit		X*		
e. Treatment processes are as described in permit application/briefing memo	X			
f. New treatment process(es) added since last inspection		X		
g. Notification given to state of new, different, or increased discharges			X	
h. All discharges are permitted	X			
i. Number and location of discharge points are as described in permit	X			

Comments:

F. COMPLIANCE SCHEDULES/VIOLATIONS

	Yes	No	N/A	N/E
a. Any significant violations since the last inspection	X			
b. Permittee is taking actions to resolve violations	X			
c. Permittee has compliance schedule		X		
d. Compliance schedule contained in _____			X	
e. Permittee is meeting compliance schedule			X	

Comments:

G. OPERATION AND MAINTENANCE

Treatment Facility Properly Operated and Maintained	Yes	No	N/A	N/E
a. Standby power available: Generator <u>X</u> Dual Feed _____	X			
b. Adequate alarm system available for power or equipment failures	X			
c. All treatment units in service other than backup units	X*			
d. Sufficient operating staff provided: # of shifts _____ Days/Week _____		X*		
e. Operator holds unexpired license of class required by permit Class: _____	X			
f. Routine and preventive maintenance schedule/performed on time	X			
g. Any major equipment breakdown since last inspection		X*		
h. Operation and maintenance manual provided and maintained	X			
i. Any plant bypasses since last inspection		X		
j. Regulatory agency notified of bypasses _____ on MORS _____ 800 Number _____			X	
k. Any hydraulic and/or organic overloads experienced since last inspection	X*			

Comments:

Collection System	Yes	No	N/A	N/E
a. Percent combined system: 0 %				
b. Any collection system overflows since last inspection (CSO SSO)		X		
c. Regulatory agency notified of overflow (SSOs)			X	
d. CSO O and M plan provided and implemented			X	
e. CSOs monitored and reported in accordance with permit			X	
f. Portable pumps used to relieve system			X	
g. Lift station alarm systems provided and maintained	X			
h. Are lift stations equipped with permanent standby power or equivalent	X			
i. Is there an inflow/infiltration problem (separate sewer system), or were there any major repairs to collection system since last inspection	X*			
j. Any complaints received since last inspection of basement flooding		X		
k. Are any portions of the sewer system at or near capacity		X		

Comments:

H. SLUDGE MANAGEMENT

- a. Sludge Management Plan _____ Submitted Date _____
 _____ Approval Number _____
 _____ Not submitted _____
 _____ N/A _____

	Yes	No	N/A	N/E
b. Sludge Management Plan current			X*	
c. Sludge adequately disposed (Method: _____)				
d. If sludge is incinerated, where is ash disposed of? _____				
e. Is sludge disposal contracted (Name: _____)				
f. Has amount of sludge generated changed significantly since last inspection				
g. Adequate sludge storage provided at plant				
h. Land application sites monitored and inspected per SMP				
i. Records kept in accordance with state and federal law				
j. Any complaints received in last year regarding sludge				
k. Is sludge adequately processed (digestion, dewatering, pathogen control)				

Comments:

Part 3, Laboratory - Quality Control/Quality Assurance		Yes	No	N/A	N/E
f.	Quality assurance manual provided and maintained			X*	
g.	Satisfactory calibration and maintenance of instruments and equipment		X*		
h.	Adequate records maintained		X*		
i. Results of latest U.S. EPA quality assurance performance sampling program:					
Date:		<input checked="" type="checkbox"/> N/A Satisfactory <input type="checkbox"/> Marginal <input type="checkbox"/> Unsatisfactory			

Comments:

J. EFFLUENT/RECEIVING WATER OBSERVATIONS

Outfall #	Oil Sheen	Grease	Turbidity	Visible Foam	Visible Float Solids	Color	Other
001	no	no	no	no	no	Greenish tint	

Comments:

K. MULTIMEDIA OBSERVATIONS

	Yes	No	N/A	N/E
a. Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories		X		
b. Do you notice staining or discoloration of soils, pavement, or floors		X		
c. Do you notice distressed (unhealthy, discolored, dead) vegetation		X		
d. Do you see unidentified dark smoke or dustclouds coming from sources		X		
e. Do you notice any unusual odors or strong chemical smells		X		
f. Do you see any open or unmarked drums, unsecured liquids, or damaged containment		X		

If any of the above are observed, ask the following questions:

1. What is the cause of the conditions?
2. Is the observed condition or source a waste product?
3. Where is the suspected contaminant normally disposed?
4. Is this disposal permitted?
5. How long has the condition existed and when did it begin?

Comments:

ATTACHMENT

General

The Danville Sewage Treatment Plant consists of mechanical bar screens, influent lift station, continuous release treatment lagoons, chlorination/dechlorination, and post aeration. There are six lagoons. The first lagoon acts as a complete mix activated sludge basin. The second lagoon is the ammonia nitrification cell. Lagoons three and four act as sludge settling and stabilization cells. Lagoons five and six act as facultative polishing cells.

Operation and Maintenance

The Village has contracted with McGee's Technical Water Services to oversee the operation of the sewage treatment plant.

The amount of inflow/infiltration (I/I) that is entering the sanitary sewer collection system is of serious concern. There is currently a lack of man power for the Village to conduct a study and fix problems in the collection system. **It is highly recommended that the Village contract with an outside firm to begin gathering data on the collection system. The highest priorities should be producing an accurate map of the existing collection system with all manholes identified (if you do not already have such a map). Next some smoke testing or TV videoing of the system should be conducted, and all manholes evaluated. Please respond in writing as to what has already been done in studying the collection system, when this was done, and what you will attempt to do now!**

The floating aerators used in the lagoons are another area of concern. During my inspection at least 7 of the aerators were not in operation. It is acknowledged that at the time of my inspection in May not all the aerators needed to be running. **Please respond in writing as to how many aerators are currently operable and how many are not working due to some maintenance needs. Also, do you have any written procedures to follow as far as how many aerators should be operating in each lagoon depending on water temperature or flow?**

Another important item is measuring the amount of sludge in the lagoons. Apparently this has not been done for a few years. **Please go back and check to see which lagoons had the most sludge in them and then begin measuring sludge levels in these lagoons first. Please comment in writing.**

The generator is only able to run the influent sewage lift pumps. It is not able to run the aerators, post aeration, or mechanical screens. **Please look into providing either a larger generator or one or two smaller additional generators so that the entire plant can operate during power outages. Installing "quick connects" such that portable generators can be used to power certain equipment is also desirable. Please comment in writing.**

Effluent Violations and Self-Monitoring

There have been a few permit violations over the past two years. The majority of violations are related to load violations and high flows, because the effluent concentrations are within permit limits. These violations are listed on an attached page along with a "Notice of Violation" letter for these violations.

If you are not using the composite sampler, then be sure to record the times that the aliquots are taken to make up the composite sample on the final effluent. Note the permit requires that there be three aliquots taken at intervals of between 30 minutes and two hours. Of course a 24 hour sampler may always be used and would be more representative.

Collection System

As mentioned above in this report, there needs to be a commitment to start locating and removing excessive inflow and infiltration. **The enclosed flow graphs show just how serious this problem has become. Notice how many days the flow exceeds the design flow of the sewage treatment plant.**

The only sewage lift station is at the head of the plant. There is a generator that will run these sewage lift pumps should the power go out.

Monitoring Wells

Ohio EPA, the Village of Danville, McGhee's Technical Water Services, and Ground Water Science have been working together to obtain more information on the apparent sewage leak under one of the lagoons. At this point in time, Ohio EPA has provided our recommendations as to further gather information. The Village has asked the contract operator to begin taking the extra stream samples and we are awaiting the decision as to where one new monitoring well will be located and when it will be installed. **Please inform Ohio EPA where this item stands.**

Flow Measurement

The final effluent flow meter was last calibrated by an outside firm around December 2006. Although McGhee Technical Water Services does almost monthly "stick calibrations" and claim to be able to calibrate the meter, it must be calibrated by an outside firm specializing in flow meter calibrations. This is especially important in light of the high flows that are being reported at the wastewater treatment plant. **Please comment in writing when the flow meter will be calibrated by an outside firm that is certified to calibrate meters.**

Laboratory

All parameters are run by TCCI lab except for dissolved oxygen, total residual chlorine, and temperature. Danville personnel must ensure that the meters for dissolved oxygen and especially residual chlorine are calibrated on a routine basis and recorded in a log notebook. I learned from Lonnie McGhee that TCCI lab calibrates the total residual chlorine meter every three months. Also, he mentioned that Danville has a new dissolved oxygen meter that prints out an error code if anything is wrong with the membrane. So they have spare membranes on hand to handle that

situation.

Total Maximum Daily Load Report

The Ohio EPA is currently working on a **Total Maximum Daily Load (TMDL) Report** for the Kokosing River Watershed. This TMDL report will determine causes and sources of impairment and the amount of pollutant reduction which will be needed to bring non-attainment segments of streams back into compliance with water quality standards (water chemistry, fish, and aquatic macroinvertebrates). The East Branch of Jelloway Creek is in the Kokosing Watershed. This study may propose more stringent limits for parameters already in the Danville STP's NPDES permit, may propose phosphorus limits, or propose limits for parameters that currently do not have limits. A compliance schedule will be provided in the NPDES permit renewal or modification to give time to meet these new limits.

DANVILLE STP

Get New Data

VIOLATIONS JANUARY 2007 THROUGH APRIL 2009

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
4PC00100*FD	June 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.1	6/4/2007
4PC00100*FD	November 2008	001	00530	Total Suspended Solids	7D Conc	90	133.5	11/15/2008
4PC00100*FD	June 2008	001	00530	Total Suspended Solids	30D Qty	49.2	53.6580	6/1/2008
4PC00100*FD	June 2008	001	00530	Total Suspended Solids	7D Qty	68.2	70.1985	6/8/2008
4PC00100*FD	May 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.5	5/25/2007
4PC00100*FD	May 2007	001	00300	Dissolved Oxygen	1D Conc	6.0	5.	5/29/2007
4PC00100*FD	April 2008	001	00530	Total Suspended Solids	30D Qty	49.2	50.7199	4/1/2008
4PC00100*FD	April 2009	001	00530	Total Suspended Solids	7D Qty	68.2	75.4994	4/22/2009

June 17, 2009

**Re: Self-Monitoring Report Violations
Notice of Violation Letter
Danville STP
Ohio EPA Permit No. 4PC00100
NPDES Permit No. OH0024872**

Mayor Robert Dile and Village Council
512 South Market Street
P.O. Box W
Danville, OH 43014

Dear Mayor Dile and Village Council:

We are in receipt of your self-monitoring report covering the months of January 2007 through April 2009 for the referenced facility. Our review in SWIMS indicates violations of the conditions of your National Pollutant Discharge Elimination System (NPDES) permit. The specific instances of noncompliance and/or deficiencies are listed on the attached "Violations" page.

Please be advised that failure to comply with the effluent limitations or to satisfy the monitoring or reporting requirements of your NPDES permit may be cause for enforcement action pursuant to the Ohio Revised Code Chapter 6111.

Please inform this office, in writing, within 30 days of the receipt of this letter as to the reasons for the above cited violations, as well as description of the action(s) taken or proposed to prevent any further violation(s). Your response should include the dates, either actual or proposed, for completion of the action(s).

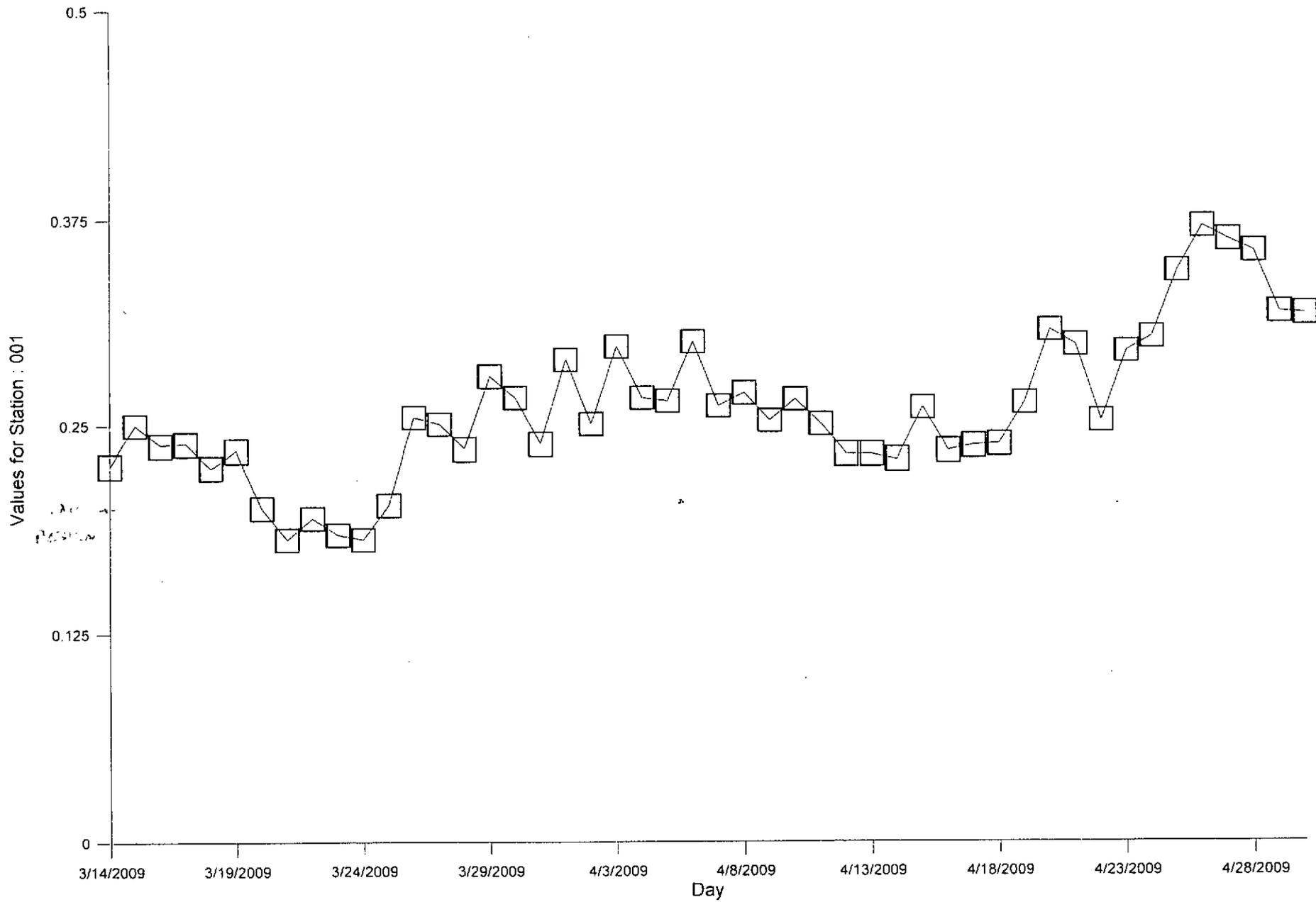
If there are any questions, please contact me at (614) 728-3846.

Sincerely,

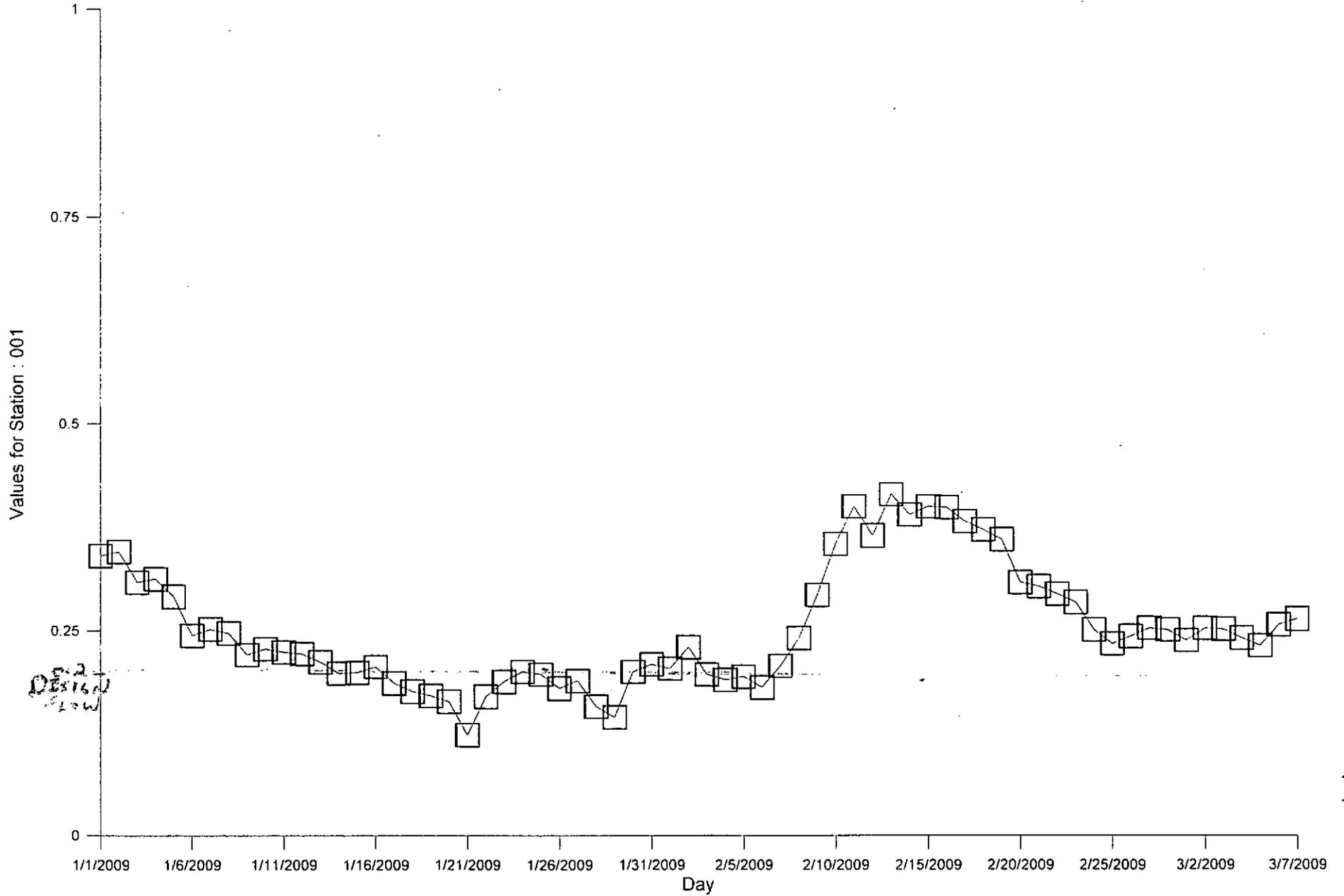


Larry Korecko
Environmental Specialist
Compliance/Enforcement Group
Division of Surface Water
Central District Office

Danville WWTP 4PC00100*FD :
Period : 03/14/2009 to 04/30/2009 Parameter : Flow Rate (MGD)



Danville WWTP 4PC00100*FD :
Period : 01/01/2009 to 03/07/2009 Parameter : Flow Rate (MGD)



Danville WWTP 4PC00100*FD :
Period : 01/01/2008 to 12/31/2008 Parameter : Flow Rate (MGD)

