



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

December 18, 2012

Ms. Kim Jones  
City of New Carlisle  
P.O. Box 419  
313 S. Church Street  
New Carlisle, Ohio 45344-0419

**RE: NEW CARLISLE WWTP - COMPLIANCE EVALUATION INSPECTION, CLARK  
COUNTY NPDES NO. 1PD00018\*GD/OH0020044**

Dear Ms. Jones:

On November 29, 2012, Sandra Leibfritz conducted an inspection at the New Carlisle Wastewater Treatment Plant (WWTP) located at 403 Garfield Avenue, New Carlisle, Ohio. Don Basham and Jessica Putterbaugh represented the facility. Details on the ratings may be obtained in the enclosed inspection report.

There are eight (8) items that require a response. The inspection report provides dates when each item needs to be addressed. Many of these items were noted in previous inspections. Ohio EPA acknowledges that you just completed upgrades to your solids handling facilities at a cost of \$1.1 million. This infrastructure, as well as existing infrastructure, needs to be protected by a comprehensive preventative maintenance program and proper staffing levels, to implement the program.

Please be advised that we will be contacting you in January to discuss these items. If you have any questions about the inspection, please call Ms. Leibfritz at (937) 285-6104 or me at (937) 285-6034.

Sincerely,

A handwritten signature in black ink that reads "Martyn G. Burt".

Martyn G. Burt  
Environmental Supervisor  
Division of Surface Water

Enclosure

ec: Clark County Health Department  
[dbasham@newcarlisle.net](mailto:dbasham@newcarlisle.net)  
[hkitko@newcarlisle.net](mailto:hkitko@newcarlisle.net)

MGB\bp



State of Ohio Environmental Protection Agency  
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
PD00018*GD	OH0020044	11/29/2012	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of New Carlisle 403 Garfield Ave New Carlisle, OH 45344	9:30 am	January 1, 2009
	Exit Time	Permit Expiration Date
	1:35 pm	June 30, 2013
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Don Basham, Class II ORC, Superintendent Jessica Putterbaugh, Lab Analyst, Class II WW	(937) 845-0814 dbasham@newcarlisle.net	
Name, Address and Title of Responsible Official	Phone Number	
Kim Jones City of New Carlisle P.O. Box 419 313 S. Church Street New Carlisle, OH 45344-0419	(937) 845-9492 (937) 845-2338 (fax)	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	N	Flow Measurement	N/A	Pretreatment
S	Records/Reports	N	Laboratory	N/A	Compliance Schedule
M	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)			
Inspector		Reviewer	
<i>Sandra D Leibfritz</i>		<i>Martyn Burt</i>	
Sandra D. Leibfritz Environmental Specialist Division of Surface Water Southwest District Office	<i>12/18/2012</i> Date	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office	<i>12/18/12</i> Date

### **Areas Requiring a Response**

1. No later than April 12, 2013, provide a copy of New Carlisle's O&M that contains updates to the 1991 version and includes upgrades from PTI No. 834547 that was approved on November 16, 2012.
2. No later than January 31, 2013, provide in writing that a log has been implemented for signing in and out of the WWTP for Operators of Record. This is to document that the staffing requirements have been met as per OAC 3745-7-04. New Carlisle is a Class III plant and is required to have an Operator of Record physically present at the WWTP for 5 days per week for a minimum of 40 hours per week. Any hours spent off-site, such as working in the collection system or at the council office; do not count towards meeting the staffing requirement.
3. 2012 Capital Improvement Plan (CIP)

The skimmer box for one of the clarifiers is on-site, but not installed. No later than June 28, 2013, provide written notification that the skimmer box has been installed and that the clarifier is in good working order as required by Part III, Item 3.

The sludge valve motors are on-site, but not installed. No later than June 28, 2013, provide written notification that these motors have been installed and are in good working order as required by Part II, Item 3.

Your 2012 CIP identified the need to purchase a raw influent pump (#3). No later than January 31, 2013, provide a schedule for completing this project.

4. Lab Criteria – A complete laboratory inspection was not conducted; however, there were still deficiencies in your laboratory practices. Ohio EPA, Southwest District Office, has requested that our Division of Environmental Service conduct a Performance Audit Inspection. No later than January 31, 2013, provide written notification that the deficiencies noted below have been corrected.

Weight: New Carlisle is required to have either NIST Class S or ASTM/ANSI Class 1 weights. New Carlisle did send out their existing weights to be certified as a Class 1; however, on November 2, 2011, the weights could only be certified as a Class 6. Because there are extremely tight tolerances associated with a Class 1 weight, it does not take much use, handling or poor environmental conditions to cause a weight to change its mass value. A Class 1 weight is used to calibrate high precision analytical balances with a readability as low as 0.1 mg to 0.01 mg; whereas, a Class 6 is considered a student weight. Since New Carlisle could not recertify the existing weights as a Class 1, you will need to purchase new weights that have a Class 1 calibration certificate.

Temperature: In October 2011, New Carlisle purchased several new NIST traceable thermometers. For serial number 07054, the date of the report for "Statement of Accuracy" is October 5, 2011. As of the date of the inspection (11/29/2012), the thermometers have not been recalibrated. New Carlisle is required to calibrate all thermometers on an annual basis with an NIST traceable thermometer and record the correction factor on the thermometer.

SOPs: Several SOPs have been developed for parameters analyzed at New Carlisle's laboratory; however, SOPs were not developed for all parameters analyzed. Jessica Putterbaugh reported that it is a work in progress however, others have not.

5. According to your 2013 CIP, New Carlisle has scheduled a biological treatment engineering study. Is this project still scheduled for 2013?
6. Sand from your rapid sand filters is a solid waste and must be disposed of properly by hauling to a sanitary landfill. It cannot be stockpiled on the ground beyond the fenced-in area of the WWTP. This can be put in the dumpster with your sludge that you haul to the landfill. No later than January 31, 2013, provide in writing that the sand has been disposed of at a landfill.
7. New Carlisle was issued a general NPDES permit (No. 1GR01070\*EG/OHR000005) for storm water associated with industrial activity on March 5, 2012. This permit is required because there are drainage areas that surround your treatment units that ultimately discharge to waters of the state. This permit requires you develop and implement a storm water pollution prevention plan (SWP3). No later than June 28, 2013, provide a copy of your SWP3.
8. A preventive maintenance program has not been developed and implemented. It is our understanding that preventive maintenance is not done on a proactive basis. No later than January 31, 2012, provide a time line for developing and implementing a preventive maintenance program.

Your 1991 O&M manual requires 6 staff to operate and maintain the WWTP. Due to automation at the WWTP, this number has been reduced to 5. Ohio EPA does not object to the reduction of one staff position based on automation; however, there has only been 4 staff operating and maintaining the WWTP since September 2005 and as a result, maintenance is suffering. In 2009, New Carlisle reported that this issue would be addressed, but as of the date of the inspection, there were only 4 staff to perform maintenance activities. What actions is New Carlisle going to implement to resolve this issue? It is imperative that New Carlisle develop and implement a preventive maintenance program.

### **Areas Not Requiring a Response**

New Carlisle has scheduled a meeting with Julie Ward, Ohio RCAP. She will be helping them evaluate their user rates.

#### **2012 Capital Improvements:**

New Carlisle WWTP contracted with Burgess & Niple for plant upgrades to the rapid sand filters (valve actuator, valve schematic, switch to VFD influent pump, add air scouring, add components for 3<sup>rd</sup> filter), solids handling facilities (rotary fan press) and effluent meter. On November 16, 2012, Ohio EPA issued New Carlisle a PTI (No. 834547) for upgrades mentioned above. As of the date of the inspection, construction was completed as per detail plans, with one exception. Instead of using floats in the rapid sand filters, three ultrasonic level sensors were installed.

A new chain was installed on the mechanical screens. Money slated for replacement of the screens in the 2012 Capital Improvement Plan was used to replace, instead of refurbish, the pumps in the bio tower. Screens will be rescheduled for replacement in approximately 5 years.

The raw influent pump (#3) was scheduled for repair/replacement in 2012, but has been rescheduled for repair/replacement within the next 5 years.

New Carlisle has purchased a new computer for their laboratory.

The backflow preventer has been replaced.

The nonpotable pump has been repaired.

New Carlisle repaired 2 major trunk lines that collapsed.

The wet stream process consists of wet well with mechanical screen, influent pumping, aerated grit chamber, comminutor, (2) primary clarifiers, (2) oxidation towers, (1) intermediate clarifier, (2) RBC trains (8 units total), (2) secondary clarifiers, flocculator clarifier, (3) rapid sand filters, chlorination/dechlorination with post aeration.

The design of the WWTP is 1.0 MGD. During the period from January 2011 through December 2011, the average flow was 0.85 MGD.

There is a bypass around the primary and part of the secondary treatment systems (bypass goes around the ammonia towers, RBCs and two of the secondary clarifiers). The bypass is located in the splitter box prior to the primary clarifiers. The bypass goes directly to the flocculator clarifier. The bell overflow was covered with a steel plate that has been welded in place. There is also a sluice gate valve and a 16-inch gate valve in series, downstream of the bell overflow that can be manually opened to bypass.

Permit #: 1PD00018\*GD  
NPDES #: OH0020044

New Carlisle has three Class III operators (Don Basham, Scott Strayer and Danny Pratt) and one lab person (Jessica Putterbaugh).

The final effluent for outfall 1PD00018001 was clear. Similar conditions were noted both upstream and downstream of the outfall in Honey Creek.

**Final Effluent Limitation Violations for outfall 1PD00018001**  
During the period from September 2011 through October 2012

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
November 2011	Dissolved Oxygen	1D Conc	6.0	3.8	11/9/2011
November 2011	Dissolved Oxygen	1D Conc	6.0	3.8	11/16/2011
July 2012	Chlorine, Total Residu	1D Conc	0.038	1.25	7/11/2012
July 2012	Fecal Coliforms	7D Weekly	2000	AK	7/23/2012
July 2012	Fecal Coliforms	30D Monthly	1000	AK	7/1/2012

Note: Noncompliance notification has been given for all final effluent violations.