



**Environmental
Protection Agency**

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

June 28, 2012

RE: CUYAHOGA COUNTY
CITY OF NORTH OLMSTED WWTP
NPDES PERMIT NO. OH0026778
OHIO EPA PERMIT NO. 3PD00016
COMPLIANCE SAMPLING INSPECTION

Mayor and Council
North Olmsted City Hall
5200 Dover Center Road
North Olmsted, OH 44070

Dear Mayor and Council:

Please find enclosed a copy of the laboratory data compiled by Ohio EPA for the samples collected on May 21-22, 2011 at the North Olmsted Wastewater Treatment Plant (WWTP). During the course of the visit, 24-hour composite and grab samples were collected of the plant effluent at Outfall 001 by Mandy Razzano. The samples were analyzed by Ohio EPA for the routine permit parameters, organic constituents, and toxicity. A tour of the plant operations was provided by Assistant Superintendent CarrieAnne Rosemark.

The purpose of the inspection was to evaluate the facility's compliance status with respect to the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) permit. In addition, the information obtained during the inspection will be utilized by Ohio EPA as part of the future NPDES permit renewal process.

NPDES Permit Status

The NPDES permit for this facility was issued on June 1, 2010 and expires on January 31, 2014. The permit authorizes an average daily discharge of 7.0 MGD from the facility to the Rocky River. The permit was recently modified to include a variance-based limitation for Mercury.

Facility Description

The North Olmsted WWTP provides sanitary sewer service to the City of North Olmsted, City of Fairview Park – Ward 5 and a portion of Olmsted Township. The existing separate sanitary sewer system consists of approximately 159 miles of separate sanitary sewer, ranging in sizes between eight inches in diameter to 42 inches in diameter, and five pump stations.

The wet stream treatment process consists of bar screens, primary clarification, aeration, secondary clarification, microscreens, and chlorination/dechlorination prior to discharging to the Rocky River. Sludge from the primary clarifiers are thickened and mixed with sludge from the secondary clarifiers and dewatered through the centrifuge. The sludge cake is hauled off-site for proper disposal.

The treatment plant includes three bypass locations where flows can be diverted from the normal treatment train: (1) at the weir wall in the influent wet well; (2) at the weir prior to the South Plant primary clarifiers; and (3) after secondary clarification prior to the microscreens (tertiary bypass). The diverting or bypassing of wastewater from any portion of the collection

system and treatment facility is prohibited pursuant to applicable federal and state regulations. All such events must be reported as an unauthorized discharge in accordance with Part III, Items 11 and 12, of the NPDES permit. This includes notification by email/telephone and confirmation in writing.

Phase I improvements to address wet-weather capacity issues, e.g. bypasses and flooding, in the collection system are presently ongoing. Design improvements to treatment facility and Phase 2 sewers have recently been submitted to Ohio EPA for review and approval. The plant improvements, designed to increase peak hydraulic capacity and eliminate internal plant bypasses, are to include the following:

- o New headworks
- o New biological system
- o Improved clarifier capacity
- o New tertiary treatment system
- o Proposed UV disinfection

Inspection Findings/Compliance Status

At the time of the inspection, the following observations and comments were noted:

- The general operation and maintenance of the treatment plant appeared to be satisfactory. One of the tertiary microscreens remains permanently out of service.
- A visual observation of the plant effluent revealed no signs of floating debris, oil & grease, or foam in the discharge.
- The analytical data revealed that the plant discharge was in compliance with the respective NPDES permit effluent concentration limitations. The bioassay data indicate that the effluent was not acutely toxic to the test organisms, Ceriodaphnia dubia and Pimephales promelas. Screening bioassays are utilized by Ohio EPA to determine if an effluent is acutely toxic to the test organisms and to indicate if more extensive evaluations should be conducted to determine the persistence of toxicity.

Discharge Monitoring Reports

Discharge monitoring reports (DMR) received by Ohio EPA for the period, May 2011 – May 2012, were reviewed. Violations of the NPDES permit requirements at Outfall 001 are listed in Attachment A and B.

Please be advised that failure to comply with the terms and conditions of your NPDES permit may be subject to enforcement actions pursuant to Chapter 6111 of the Ohio Revised Code. Such actions can result in fines of up to \$10,000 per day of violation. Please inform this office, in writing, within 10 days of receipt of this notification as to the actions taken or proposed to address the violation and/or deficiencies referenced herein. Your response **shall** include specific dates for completion of the actions.

Please be advised that past or present issues of noncompliance can continue as subjects of future enforcement actions by Ohio EPA.

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If you should have any questions, please contact this office at (330) 963-1196.

Respectfully,



Ermelindo Gomes
Environmental Engineer
Division of Surface Water

EG/cs

Enclosures: Attachment A and B
Bioassay Report

cc: Brian Blum, Superintendent, City of North Olmsted WWTP

Attachment A: North Olmsted WWTP Numeric Effluent Violations Summary (5/2011- 5/2012)						
Reporting Period	Station	Parameter	Limit Type	Limit (%)	Reported Value	Violation Date
May 2011	001	Total Suspended Solids	7D Qty	795	889.734	5/22/2011
May 2011	001	Mercury, Total (Low Le	30D Conc	1.3	1.82	5/1/2011
May 2011	001	Mercury, Total (Low Le	30D Qty	0.0000	.00008	5/1/2011
Sep 2011	001	Mercury, Total (Low Le	30D Qty	0.0000	.00004	9/1/2011
Jan 2012	001	Mercury, Total (Low Le	30D Qty	0.0000	.00043	1/1/2012
Jan 2012	001	Mercury, Total (Low Le	30D Conc	1.3	6.77	1/1/2012
Sep 2011	001	pH, Minimum	1D Conc	6.5	6.4	9/16/2011
Sep 2011	001	pH, Minimum	1D Conc	6.5	6.3	9/20/2011
Oct 2011	001	pH, Minimum	1D Conc	6.5	6.4	10/3/2011
May 2011	001	CBOD 5 day	7D Qty	609	840.939	5/22/2011

(*) – Variance-based Hg limit effective on 2/2012

Attachment B: North Olmsted WWTP Effluent Reporting Violations Summary (5/2011- 5/2012)						
Reporting Period	Violation Date	Station	Parameter	Sample Frequency	Expected	Reported
June 2011	6/24/2011	001	Water Temperature	1/Day	1	0
June 2011	6/25/2011	001	Water Temperature	1/Day	1	0
June 2011	6/26/2011	001	Water Temperature	1/Day	1	0
June 2011	6/27/2011	001	Water Temperature	1/Day	1	0
June 2011	6/28/2011	001	Water Temperature	1/Day	1	0
June 2011	6/29/2011	001	Water Temperature	1/Day	1	0
June 2011	6/30/2011	001	Water Temperature	1/Day	1	0
June 2011	6/24/2011	001	Flow Rate	1/Day	1	0
June 2011	6/25/2011	001	Flow Rate	1/Day	1	0
June 2011	6/26/2011	001	Flow Rate	1/Day	1	0
June 2011	6/27/2011	001	Flow Rate	1/Day	1	0
June 2011	6/28/2011	001	Flow Rate	1/Day	1	0
June 2011	6/29/2011	001	Flow Rate	1/Day	1	0
June 2011	6/30/2011	001	Flow Rate	1/Day	1	0
June 2011	6/24/2011	001	Chlorine, Total Residu	1/Day	1	0
June 2011	6/25/2011	001	Chlorine, Total Residu	1/Day	1	0
June 2011	6/26/2011	001	Chlorine, Total Residu	1/Day	1	0
June 2011	6/27/2011	001	Chlorine, Total Residu	1/Day	1	0
June 2011	6/28/2011	001	Chlorine, Total Residu	1/Day	1	0
June 2011	6/29/2011	001	Chlorine, Total Residu	1/Day	1	0
June 2011	6/30/2011	001	Chlorine, Total Residu	1/Day	1	0
June 2011	6/24/2011	001	Dissolved Oxygen	1/Day	1	0
June 2011	6/25/2011	001	Dissolved Oxygen	1/Day	1	0
June 2011	6/26/2011	001	Dissolved Oxygen	1/Day	1	0
June 2011	6/27/2011	001	Dissolved Oxygen	1/Day	1	0
June 2011	6/28/2011	001	Dissolved Oxygen	1/Day	1	0
June 2011	6/29/2011	001	Dissolved Oxygen	1/Day	1	0

Attachment B: North Olmsted WWTP Effluent Reporting Violations Summary (5/2011-5/2012)						
Reporting Period	Violation Date	Station	Parameter	Sample Frequency	Expected	Reported
June 2011	6/30/2011	001	Dissolved Oxygen	1/Day	1	0
June 2011	6/24/2011	001	pH, Maximum	1/Day	1	0
June 2011	6/25/2011	001	pH, Maximum	1/Day	1	0
June 2011	6/26/2011	001	pH, Maximum	1/Day	1	0
June 2011	6/27/2011	001	pH, Maximum	1/Day	1	0
June 2011	6/28/2011	001	pH, Maximum	1/Day	1	0
June 2011	6/29/2011	001	pH, Maximum	1/Day	1	0
June 2011	6/30/2011	001	pH, Maximum	1/Day	1	0