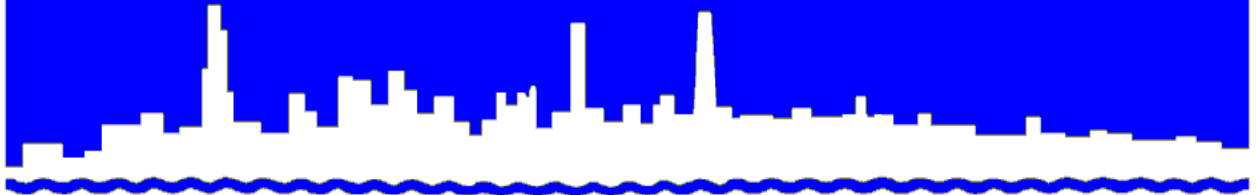


*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

*REPORT NO. 17-34*

*HARLEM AVENUE SOLIDS MANAGEMENT AREA*

*MONITORING REPORT FOR*

*SECOND QUARTER 2017*

*August 2017*

# Protecting Our Water Environment

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## Metropolitan Water Reclamation District of Greater Chicago

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**Edward W. Podczerwinski, P.E.**  
Acting Director of Monitoring and Research

August 17, 2017

Mr. S. Alan Keller, P.E.  
Manager, Permit Section  
Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794 - 9276

Dear Mr. Keller:

Subject: Harlem Avenue Solids Management Area - Stickney Water Reclamation Plant,  
Illinois Environmental Protection Agency Permit No. 2014-AO-58836,  
Monitoring Report for April, May, and June 2017

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for April, May, and June 2017 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2014-AO-58836. Biosolids were placed in the solids drying area during May and June 2017.

Table 1 Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Solids Management Area Sampled on May 31, 2017.

Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During May 2017.

Table 3 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During June 2017.

Very truly yours,

Albert E. Cox  
Environmental Monitoring and Research Manager  
Monitoring and Research Department

AC:DB:cm

Attachments

cc/att: Mr. J. Patel, IEPA  
Records Unit, IEPA  
Mr. E. Podczerwinski  
Dr. H. Zhang  
Dr. D. Brose

**Metropolitan Water Reclamation District of Greater Chicago**  
*100 East Erie Street Chicago, Illinois 60611-2803 312-751-5600*

**HARLEM AVENUE SOLIDS MANAGEMENT AREA  
MONITORING REPORT FOR  
SECOND QUARTER 2017**

**Monitoring and Research Department**  
**Edward W. Podczewinski, Acting Director**

**August 2017**

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N  
 AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED  
 ON MAY 31, 2017

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH <sup>1</sup>	7.7	7.7	6.8
	----- mg L <sup>-1</sup> -----		
Cl <sup>-</sup>	92	22	133
SO <sub>4</sub> <sup>2-</sup>	25	1,693	434
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.150	16	<0.150

<sup>1</sup>pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT DRYING AREA DURING MAY 2017

Parameter	Analysis <sup>1</sup>
pH	8.0
Total Solids	23
Total Volatile Solids <sup>2</sup>	53

<sup>1</sup>Composite of four samples.

<sup>2</sup>Total volatile solids as a percentage of total solids.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT DRYING AREA DURING JUNE 2017

Parameter	Analysis <sup>1</sup>
pH	8.6
Total Solids	23
Total Volatile Solids <sup>2</sup>	51

<sup>1</sup>Composite of four samples.

<sup>2</sup>Total volatile solids as a percentage of total solids.