

*Protecting Our Water Environment*



***Metropolitan Water Reclamation District of Greater Chicago***

*MONITORING AND RESEARCH  
DEPARTMENT*

***REPORT NO. 16-44***

***HARLEM AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***THIRD QUARTER 2016***

***December 2016***

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**THOMAS C. GRANATO, Ph.D., BCES**

Director of Monitoring and Research

December 16, 2016

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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 July, August, and September 2016

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for July, August, and September 2016 as required by Illinois Environmental Protection Agency Operating Permit No. 2014-AO-58836. Biosolids were placed in the solids drying area during July, August, and September 2016.

Table 1 Analysis of Water from Lysimeters L-1N1 through L-3N at the Harlem Solids Management Area Sampled on August 3, 2016.

Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During July 2016.

Table 3 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During August 2016.

Table 4 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During September 2016.

Very truly yours,

Thomas C. Granato, Ph.D., BCES

Director

Monitoring and Research

TCG:HZ:DB:cm

Attachment

cc/att: Mr. J. Patel, IEPA/Records Unit, IEPA

Mr. E. Podczerwinski/Dr. H. Zhang/Dr. A. Cox

Dr. G. Tian/Dr. D. Brose

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N  
 AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED  
 ON AUGUST 3, 2016

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH <sup>1</sup>	7.6	7.4	7.7
	----- mg L <sup>-1</sup> -----		
Cl <sup>-</sup>	88	30	170
SO <sub>4</sub> <sup>2-</sup>	18	1,795	369
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.15	59	0.20

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

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING JULY 2016

Parameter	Analysis <sup>1</sup>
pH	7.9
	---- % ----
Total Solids	25
Total Volatile Solids <sup>2</sup>	48

<sup>1</sup>One sample.

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

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING AUGUST 2016

Parameter	Analysis <sup>1</sup>
pH	8.2
	---- % ----
Total Solids	27
Total Volatile Solids <sup>2</sup>	46

<sup>1</sup>One sample.

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

TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING SEPTEMBER 2016

Parameter	Analysis <sup>1</sup>
pH	7.6
	---- % ----
Total Solids	25
Total Volatile Solids <sup>2</sup>	47

<sup>1</sup>One sample.

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