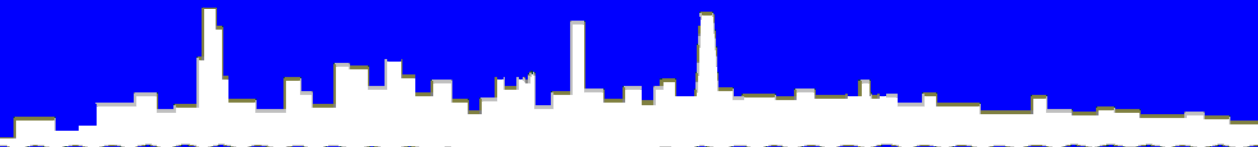


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 16-30

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2016

August 2016

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THOMAS C. GRANATO, Ph.D., BCES

Director of Monitoring and Research

August 23, 2016

thomas.granato@mwrdd.org

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 2016

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

- Table 1 Analysis of Water from Lysimeters L-1N1 through L-3N at the Harlem Solids Management Area Sampled on June 1, 2016.
- Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During April 2016.
- Table 3 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During May 2016.
- Table 4 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During June 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
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 JUNE 1, 2016

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH ¹	7.5	7.4	8.0
	----- mg L ⁻¹ -----		
Cl ⁻	31	34	189
SO ₄ ²⁻	29	1,758	358
NO ₂ +NO ₃ -N	<0.15	25	<0.15

¹pH analyzed beyond recommended holding time of 15 minutes.

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

Parameter	Analysis ¹
pH	7.5
	---- % ----
Total Solids	23
Total Volatile Solids ²	57

¹One sample.

²Total volatile solids as a percentage of total solids.

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

Parameter	Analysis ¹
pH	7.7
	---- % ----
Total Solids	24
Total Volatile Solids ²	55

¹One sample.

²Total volatile solids as a percentage of total solids.

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

Parameter	Analysis ¹
pH	8.5
	---- % ----
Total Solids	25
Total Volatile Solids ²	50

¹One sample.

²Total volatile solids as a percentage of total solids.