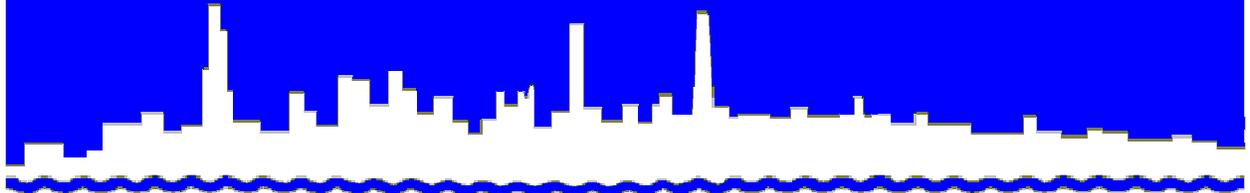


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 18-25

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2018

October 2018

BOARD OF COMMISSIONERS

Mariyana T. Spyropoulos

President

Barbara J. McGowan

Vice President

Frank Avila

Chairman of Finance

Ken Dunkin

Martin J. Durkan

Josina Morita

Debra Shore

Kari K. Steele

David J. Walsh

Metropolitan Water Reclamation District of Greater Chicago

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
6001 WEST PERSHING ROAD CICERO, ILLINOIS 60804-4112

Edward W. Podczerwinski, P.E.

Director of Monitoring and Research

August 27, 2018

Mr. Roger Callaway
Illinois Environmental Protection Agency
Bureau of Water
DWPC Compliance Section #19
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9274

Dear Mr. Callaway:

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 2018

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for April, May, and June 2018 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.

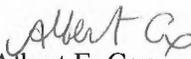
Table 1 Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Solids Management Area Sampled on May 16, 2018.

Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During April 2018.

Table 3 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During May 2018.

Table 4 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During June 2018.

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

Dr. H. Zhang/Dr. G. Tian/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 2018**

Monitoring and Research Department
Edward W. Podczewinski, Director

October 2018

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N
 AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED
 ON MAY 16, 2018

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH ¹	7.6	7.4	7.7
	----- mg L ⁻¹ -----		
Cl ⁻	90	26	137
SO ₄ ²⁻	31	1,725	393
NO ₂ +NO ₃ -N	<0.150	35	<0.150

¹pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING APRIL 2018

Parameter	Analysis ¹
pH	7.8
	----- % -----
Total Solids	22
Total Volatile Solids ²	60

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 2018

Parameter	Analysis ¹
pH	8.4
	----- % -----
Total Solids	22
Total Volatile Solids ²	62

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 2018

Parameter	Analysis ¹
pH	8.6
	----- % -----
Total Solids	24
Total Volatile Solids ²	54

¹One sample.

²Total volatile solids as a percentage of total solids.