

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 19-22

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2019

September 2019

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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

September 11, 2019

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. 2019-AO-63958, Monitoring Report for April, May, and June 2019

The attached tables contain the monitoring data for the Harlem Avenue Solids Management Area for April, May, and June 2019 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2019-AO-63958. Biosolids were placed in the solids drying area in May and June.

Table 1 Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Solids Management Area Sampled on May 8, 2019.

Table 2 Analysis of Biosolids Placed in the Harlem Avenue Solids Management Area During May and June 2019.

Very truly yours,


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

AC:BM:cm
Attachments
cc/att: Mr. J. Patel, IEPA
Records Unit, IEPA
Dr. H. Zhang

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

**HARLEM AVENUE SOLIDS MANAGEMENT AREA
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Monitoring and Research Department
Edward W. Podczewinski, Director

September 2019

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N
 AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED
 ON MAY 8, 2019

Parameter	Lysimeter No.		
	L-1N1	L-2N	L-3N
pH	7.4	6.8	7.4
	----- mg L ⁻¹ -----		
Cl ⁻	83	22	136
SO ₄ ²⁻	38	1,492	356
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	26.8	0.27

TABLE 2: ANALYSIS OF BIOSOLIDS PLACED IN THE HARLEM AVENUE SOLIDS MANAGEMENT AREA DURING MAY AND JUNE 2019

Parameter	May ¹	June ¹
pH	8.0	7.9
	----- % -----	
Total Solids	20.0	21.6
Total Volatile Solids ²	54.2	54.4

¹One sample.

²Total volatile solids as a percentage of total solids.