

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 24-07

HARLEM AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT

FOR FOURTH QUARTER 2023

March 2024

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Edward W. Podczewski, P.E.
Director of Monitoring and Research

February 26, 2024

Ms. Catherine Siders
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 Ms. Siders:

Subject: Harlem Avenue Solids Management Area – Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2019-AO-63958, Monitoring Report for October, November, and December 2023

The attached table contains the monitoring data for the Harlem Avenue Solids Management Area for October, November, and December 2023, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2019-AO-63958. Biosolids were not placed in the solids drying area during the fourth quarter of 2023.

Table 1: Analysis of Water from Lysimeters L-1N1 Through L-3N at the Harlem Avenue Solids Management Area Sampled on November 3, 2023.

Very truly yours,



Albert Cox, Ph.D.
Environmental Monitoring and Research
Manager
Monitoring and Research Department

AC:BM:lf
Attachment
Mr. J. Patel, IEPA
Mr. T. Bennett, IEPA
Mr. B. Fleming, IEPA
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**HARLEM AVENUE SOLIDS MANAGEMENT AREA
MONITORING REPORT
FOR FOURTH QUARTER 2023**

By

**Benjamin Morgan
Environmental Soil Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N1 THROUGH L-3N AT THE HARLEM AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 3, 2023¹

| Parameter | Lysimeter No. | | |
|---|-------------------------------|-------|-------|
| | L-1N1 | L-2N | L-3N |
| pH | 7.6 | 7.3 | 7.4 |
| | -----mg L ⁻¹ ----- | | |
| Cl ⁻ | 93 | 16 | 158 |
| SO ₄ ²⁻ | 35 | 1,452 | 301 |
| NO ₂ ⁻ +NO ₃ ⁻ -N | 2.4 | <0.50 | <0.50 |

¹ Lysimeter L-3N did not yield sufficient sample volume for analyses on November 3, 2023, and was resampled on November 9, 2023.