

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 23-17

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2023

May 2023

Protecting Our Water Environment

BOARD OF COMMISSIONERS

Kari K. Steele
President

Marcelino Garcia
Chairman of Finance

Yumeka Brown
Cameron Davis
Patricia Theresa Flynn

Daniel Pogorzelski
Eira L. Corral Sepúlveda
Mariyana T. Spyropoulos

Metropolitan Water Reclamation District of Greater Chicago

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

May 25, 2023

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

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

Subject: Lawndale Avenue Solids Management Area – Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2020-AO-64903, Monitoring Report for January, February, and March 2023

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2023, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were not placed in the solids drying area during the first quarter of 2023.

Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on February 1, 2023.

Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on March 22, 2023.

Yours very truly,



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

AC:lf
Attachments
Mr. J. Patel, IEPA
Mr. T. Bennett, IEPA
Mr. B. Fleming, IEPA
Dr. H. Zhang

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

**LAWDALE AVENUE SOLIDS MANAGEMENT AREA
MONITORING REPORT FOR
FIRST QUARTER 2023**

By

**Benjamin Morgan
Environmental Soil Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15
 AT THE LAWDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON
 FEBRUARY 1, 2023

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.4	7.7	7.5	7.5	7.2
	-----mg L ⁻¹ -----				
Cl ⁻	18	14	9.8	10	9.4
SO ₄ ²⁻	190	342	635	130	861
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 22, 2023

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	7.4	7.4	7.3	7.0	7.3	6.9	8.1	7.5	7.2
	-----mg L ⁻¹ -----								
Cl ⁻	18	171	142	19	549	83	418	552	352
SO ₄ ²⁻	827	130	47	1,453	1,633	1,399	<1.0	169	179
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	1.4	0.70	0.87	1.1	0.53	1.2	0.66	<0.50