

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 26-10

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT

FOR FOURTH QUARTER 2025

February 2026

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

February 20, 2026

Mr. Caleb Ruyle
Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code #19
2520 W. Iles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9274

Dear Mr. Ruyle:

Subject: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2024-AO-71558, Monitoring Report for October, November, and December 2025

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for October, November, and December 2025, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2024-AO-71558. During the fourth quarter of 2025, biosolids were placed in the solids drying area in October and November.

Table 1: Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled in October 2025.

Table 2: Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled in October 2025.

Table 3: Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During October and November 2025.

Very truly yours,



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

AC:lf
Attachments
cc: 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

**LAWNDALE AVENUE SOLIDS MANAGEMENT AREA
MONITORING REPORT
FOR FOURTH QUARTER 2025**

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 LAWNDAL AVENUE SOLIDS MANAGEMENT AREA SAMPLED IN
OCTOBER 2025

Parameter	Monitoring Well No. ¹				
	M-11	M-12	M-13	M-14	M-15
pH	7.3	7.6	7.3	7.5	7.3
	-----mg L ⁻¹ -----				
Cl ⁻	30	16	10	12	9
SO ₄ ²⁻	198	349	653	129	808
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	<0.50	<0.50	<0.50

¹Sampled on October 8, 2025.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED IN OCTOBER 2025

Parameter	Lysimeter No. ¹								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	7.2	7.0	7.0	7.0	6.9	6.6	7.4	7.4	6.9
	-----mg L ⁻¹ -----								
Cl ⁻	20	158	137	16	523	84	280	465	329
SO ₄ ²⁻	808	170	31	1,124	1,589	1,326	2	163	138
NO ₂ ⁻ +NO ₃ ⁻ -N	0.55	3.86	<0.50	1.81	0.69	0.51	1.29	<0.50	<0.50

¹Sampled on October 28, 2025, except for L-9N on November 19, 2025.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDAL AVENUE SOLIDS
MANAGEMENT AREA DURING OCTOBER AND NOVEMBER 2025

Parameter	October	November
pH	7.8	7.7
	-----%	
Total Solids	15.7	15.0
Total Volatile Solids ¹	44.9	42.4

¹Total volatile solids as a percentage of total solids.