

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 26-09

CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS

MONITORING REPORT

FOR FOURTH QUARTER 2025

February 2026

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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: Calumet East and West Solids Management Areas - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2024-AO-71828, Monitoring Report for October, November, and December 2025

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas (SMAs) for October, November, and December 2025, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2024-AO-71828. Biosolids were placed in both the Calumet East and West SMAs in October and November of 2025.

Table 1: Analysis of Water from Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled in November 2025.

Table 2: Analysis of Water from Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled in November 2025.

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

Table 4: Analysis of Biosolids Placed in the Calumet West 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

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**CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS
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 LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED IN NOVEMBER 2025

Parameter	Lysimeter No. ¹					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH	6.9	7.0	7.3	6.8	7.3	7.4
	-----mg L ⁻¹ -----					
Cl ⁻	150	146	31	733	249	19
SO ₄ ²⁻	2,004	1,793	951	2,237	525	696
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

¹Sampled on November 18, 2025.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED IN NOVEMBER 2025

Parameter	Lysimeter No. ¹		
	L-1N	L-2N	L-3N
pH	6.9	7.5	7.1
	-----mg L ⁻¹ -----		
Cl ⁻	39	22	64
SO ₄ ²⁻	1,846	1,903	2,301
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.50	<0.50	0.52

¹Sampled on November 18, 2025.

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

Parameter	October	November
pH	8.0	8.4
	-----%	-----
Total Solids	6.5	7.9
Total Volatile Solids ¹	51.1	49.9

¹Total volatile solids as a percentage of total solids.

TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDS
MANAGEMENT AREA DURING OCTOBER AND NOVEMBER 2025

Parameter	October	November
pH	7.4	7.5
	-----%	-----
Total Solids	9.6	6.8
Total Volatile Solids ¹	47.1	50.1

¹Total volatile solids as a percentage of total solids.