

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 21-14

CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS

MONITORING REPORT FOR

FIRST QUARTER 2021

May 2021

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Edward W. Podczerwinski, P.E.

Director of Monitoring and Research

May 13, 2021

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: Calumet East and West Solids Management Areas - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2020-AO-64905, Monitoring Report for January, February, and March 2021

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for January, February, and March 2021 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64905. Biosolids were not placed in either the Calumet East or West Solids Management Areas in the first quarter of 2021.

Table 1 Analysis of Water From Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled in March 2021.

Table 2 Analysis of Water From Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled in March 2021.

Very truly yours,



Albert E. Cox, Ph.D.

Environmental Monitoring and Research Manager
Monitoring and Research Department

AC:BM:cm

Attachments

cc/att: Mr. J. Patel, IEPA

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 FIRST QUARTER 2021**

Monitoring and Research Department
Edward W. Podczewinski, Director

May 2021

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED IN MARCH 2021¹

Parameter	Lysimeter No.					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH	7.2	7.1	7.6	7.6	7.6	7.8
	----- mg L ⁻¹ -----					
Cl ⁻	151	134	34	821	238	20
SO ₄ ²⁻	2,051	1,794	1,216	2,491	573	750
NO ₂ ⁻ +NO ₃ ⁻ -N	0.40	<0.25	<0.25	<0.25	<0.25	<0.25

¹Sampled on March 4, 2021

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED IN MARCH 2021¹

Parameter	Lysimeter No.		
	L-1N	L-2N	L-3N
pH ¹	8.2	8.5	7.9
	----- mg L ⁻¹ -----		
Cl ⁻	117	25	62
SO ₄ ²⁻	1,242	2,038	2,323
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	<0.25	0.39

¹Lysimeters were sampled on March 4, 2021, but L-2N was frozen shut and L-3N was dry, both lysimeters were resampled on March 17, 2021.