



#### Metropolitan Water Reclamation District of Greater Chicago

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

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

August 12, 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 April, May, and June 2021

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for April, May, and June 2021 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64905. Biosolids were placed in both the Calumet East and West Solids Management Areas in April, May, and June 2021.

<u>Table 1</u>	Analysis of Water From Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled on May 17, 2021.
Table 2	Analysis of Water From Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled on May 17, 2021.
Table 3	Analysis of Biosolids Placed in the Calumet East Solids Management Area During April, May, and June 2021.
Table 4	Analysis of Biosolids Placed in the Calumet West Solids Management Area During April, May, and June 2021.
	Very truly yours,

Albert Con

Albert Cox Environmental Monitoring and Research Manager Monitoring and Research Department

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### CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS

#### **MONITORING REPORT FOR SECOND QUARTER 2021**

Monitoring and Research Department Edward W. Podczerwinski, Director

August 2021

	Lysimeter No.					
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pН	7.0	6.9	7.0	6.8	7.3	7.6
			mg L	1		
Cl	139	140	31	823	232	18
$SO_4$	1,914	1,830	1,118	2,179	524	700
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	0.50	< 0.25	< 0.25	< 0.25	0.32	< 0.25

## TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MAY 17, 2021

	Lysimeter No.			
Parameter	L-1N	L-2N	L-3N	
рН	7.4	8.0	7.5	
		mg L <sup>-1</sup>		
Cl	37	23	54	
SO <sub>4</sub>	1,789	1,960	2,026	
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	<0.25	<0.25	< 0.25	

## TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON MAY 17, 2021

# TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDSMANAGEMENT AREA DURING APRIL, MAY, AND JUNE 2021

Parameter	April	May	June
рН	7.9	7.3	7.4
Total Solids Total Volatile Solids	7.3 51.4	7.6 50.4	8.2 49.6

<sup>1</sup>Total volatile solids as a percentage of total solids.

# TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDSMANAGEMENT AREA DURING APRIL, MAY, AND JUNE 2021

Parameter	April	May	June
рН	7.1	7.4	7.4
Total Solids Total Volatile Solids	33.7 44.8	20.1 48.8	8.6 49.3

<sup>1</sup>Total volatile solids as a percentage of total solids.