



Metropolitan Water Reclamation District of Greater Chicago

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

August 9, 2022

Edward W. Podczerwinski, 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

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 2022

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for April, May, and June 2022, 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 May and June 2022.

- Table 1: Analysis of Water from Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled on May 18, 2022.
- Table 2: Analysis of Water from Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled on May 18, 2022.
- Table 3:
 Analysis of Biosolids Placed in the Calumet East Solids Management Area

 During May and June 2022.
- <u>Table 4</u>: Analysis of Biosolids Placed in the Calumet West Solids Management Area During May and June 2022.

Very truly yours,

Albert Con

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

AC:BM:lfAttachmentcc: Mr. J. Patel, IEPA/Mr. T. Bennett, IEPAMr. B. Fleming, IEPA/Dr. H. Zhang

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CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS MONITORING REPORT FOR SECOND QUARTER 2022

By

Benjamin Morgan Environmental Soil Scientist

Albert Cox Environmental Monitoring and Research Manager

Monitoring and Research Department Edward W. Podczerwinski, Director

August 2022

	Lysimeter No.						
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	
рН	7.2	7.0	6.9	7.0	7.1	7.3	
		mg L ⁻¹					
C1 ⁻ SO4 ²⁻	147 2,011	137 1,777	29 992	830 2,507	242 542	18 676	
NO ₂ ⁻ +NO ₃ ⁻ -N	0.89	< 0.25	< 0.25	< 0.25	0.39	< 0.25	

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE
CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MAY 18, 2022

	Lysimeter No.			
Parameter	L-1N	L-2N	L-3N	
рН	7.2	8.1	7.5	
		mg L ⁻¹		
Cl-	37	23	60	
Cl^{-} SO_4^{2-}	1,802	1,939	2,186	
NO ₂ ⁻ +NO ₃ ⁻ -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 18, 2022

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDSMANAGEMENT AREA DURING MAY AND JUNE 2022

Parameter	May	June
рН	7.7	7.5
Total Solids		0
Total Volatile Solids ¹	7.0 49.4	7.8 48.4
Total Volatile Solids	49.4	+0.+

¹Total volatile solids as a percentage of total solids.

TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDSMANAGEMENT AREA DURING MAY AND JUNE 2022

Parameter	May	June
рН	7.1	8.1
	0	6
Total Solids	8.1	7.7
Total Volatile Solids ¹	47.9	48.2

¹Total volatile solids as a percentage of total solids.