



 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

July 30, 2020

Mr. Roger Callaway 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 Mr. Callaway:

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 2020

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

- Table 1Analysis of Water From Lysimeters L-1N through L-6N at the Calumet East
Solids Management Area Sampled on May 12, 2020.
- Table 2Analysis of Water From Lysimeters L-1N through L-3N at the Calumet WestSolids Management Area Sampled on May 12, 2020.
- Table 3
 Analysis of Biosolids Placed in the Calumet East Solids Management Area

 During May and June 2020.
- Table 4Analysis of Biosolids Placed in the Calumet West Solids Management AreaDuring April, May, and June 2020.

Very truly yours,

Albert no

Albert E. Cox Environmental Monitoring and Research Manager Monitoring and Research Department

AC:BM:cm Attachments cc/att: Mr. J. Patel, IEPA/Records Unit, IEPA Dr. H. Zhang BOARD OF COMMISSIONERS Kari K. Steele President Barbara J. McGowan Vice President Frank Avila Chairman of Finance Cameron Davis Kimberly Du Buclet Marcelino Garcia Josina Morita Debra Shore Mariyana T. Spyropoulos Metropolitan Water Reclamation District of Greater Chicago – 100 East Erie Street Chicago, Illinois 60611-2803 312-751-5600

CALUMET EAST AND WEST SOLIDS MANAGEMENT AREAS MONITORING REPORT FOR SECOND QUARTER 2020

Monitoring and Research Department Edward W. Podczerwinski, Director

July 2020

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE
CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MAY 12, 2020

	Lysimeter No.					
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pН	6.9	NC^1	6.9	6.9	7.1	7.4
		mg L ⁻¹				
Cl-	147	NC	33	900	250	19
SO4 ²⁻	1,976	NC	1,187	2,618	560	691
NO2 ⁻ +NO3 ⁻ -N	0.71	NC	< 0.25	< 0.25	0.35	0.32

¹Sample could not be collected at lysimeter L-2N on May 12, 2020 because a vacuum could not be established and the lysimeter was not revisited during the second quarter due to the COVID-19 pandemic. An examination of the lysimeter is being conducted to determine whether repairs are necessary prior to sampling in the third quarter.

	Lysimeter No.			
Parameter	L-1N	L-2N	L-3N	
рН	7.6	8.4	7.3	
		mg L ⁻¹		
Cl ⁻	37	25	65	
SO4 ²⁻	1,858	2,239	2,367	
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	<0.25	0.42	

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE
CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON MAY 12, 2020

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDSMANAGEMENT AREA DURING MAY AND JUNE 2020

Parameter	May	June
рН	6.7	6
Total Solids Total Volatile Solids ¹	36.2 45.9	7.2 54.3

¹Total volatile solids as a percentage of total solids.

TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDS
MANAGEMENT AREA DURING APRIL, MAY, AND JUNE 2020

Parameter	April	May	June
рН	7.3	7.5	7.5
Total Solids Total Volatile Solids ¹	6.6 53.3	8.3 48.9	6.3 55.5

¹Total volatile solids as a percentage of total solids.