



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

May 21, 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 roger.callaway@illinois.gov

Dear Mr. Callaway:

Subject: Calumet East and West Solids Management Areas - Calumet Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2015-AO-59622, Monitoring Report for October, November, and December 2019

The attached tables contain the monitoring data for the Calumet East and West Solids Management Areas for October, November, and December 2019 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2015-AO-59622. Biosolids were placed in both the Calumet East and Calumet West Solids Management Areas in October, November, and December.

- Table 1Analysis of Water From Lysimeters L-1N through L-6N at the Calumet East<br/>Solids Management Area Sampled on November 20, 2019.
- Table 2Analysis of Water From Lysimeters L-1N through L-3N at the Calumet West<br/>Solids Management Area Sampled on November 20, 2019.
- Table 3
   Analysis of Biosolids Placed in the Calumet East Solids Management Area

   During October, November, and December.
- Table 4Analysis of Biosolids Placed in the Calumet West Solids Management AreaDuring October, November, and December.

Very truly yours,

Albert Cox

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

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 FOURTH QUARTER 2019

Monitoring and Research Department Edward W. Podczerwinski, Director

May 2020

	Lysimeter No.					
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pН	7.2	7.8	7.2	7.3	7.5	7.7
-	mg L <sup>-1</sup>					
Cl	151	127	37	849	247	20
<b>SO</b> 4 <sup>2-</sup>	1,986	1,639	1,372	2,500	557	715
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	0.38	< 0.25	< 0.25	< 0.25	0.52	< 0.25

# TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THECALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 20, 2019

	Lysimeter No.				
Parameter	L-1N	L-2N	L-3N		
pH <sup>1</sup>	7.5	8.5	7.6		
		mg L <sup>-1</sup>			
Cl-	40	24	65		
SO4 <sup>2-</sup>	1,817	1,926	2,308		
$NO_2^-+NO_3^N$	< 0.25	< 0.25	< 0.25		

### TABLE 2:ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THECALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON NOVEMBER 20, 2019

# TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET EAST SOLIDS MANAGEMENT AREA DURING OCTOBER, NOVEMBER, AND DECEMBER 2019

Parameter	October	November	December
рН	7.7	7.6	7.6
Total Solids Total Volatile Solids <sup>1</sup>	6.5 54.6	6.7 53.7	7.1 53.4

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

# TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDS MANAGEMENT AREA DURING OCTOBER, NOVEMBER, AND DECEMBER 2019

Parameter	October	November	December
рН	7.5	7.6	7.6
Total Solids Total Volatile Solids <sup>1</sup>	4.2 53.7	7.1 52.8	7.1 52.8

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