



#### 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

November 22, 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: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2020-AO-64903, Monitoring Report for July, August, and September 2021

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for July, August, and September 2021 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were placed in the solids drying area in July, August, and September 2021.

- Table 1Analysis of Water from Monitoring Wells M-11 through M-15 at the LawndaleAvenue Solids Management Area Sampled on September 17, 2021.
- Table 2Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale AvenueSolids Management Area Sampled on August 17, 2021.
- Table 3Analysis of Biosolids Placed in the Lawndale Avenue Solids Management AreaDuring July, August, and September 2021.

Very truly yours,

Albert Con

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

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

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# LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

### **MONITORING REPORT FOR**

## **THIRD QUARTER 2021**

Monitoring and Research Department Edward W. Podczerwinski, Director

November 2021

	Monitoring Well No.						
Parameter	M-11	M-12	M-13	M-14	M-15		
рН	7.5	7.6	7.4 mg L <sup>-1</sup>	7.5	7.3		
Cl <sup>-</sup> SO4 <sup>2-</sup>	22	14	10	9	9		
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	194 <0.25	345 <0.25	623 <0.25	120 <0.25	793 <0.25		

#### TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON SEPTEMBER 17, 2021

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE
LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON AUGUST 17, 2021

	Lysimeter No.								
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	$L-7N^1$	L-8N	L-9N
pН	7.2	7.1	7.0	6.8	6.9	6.7	7.8	7.7	7.0
					mg L <sup>-1</sup>				
Cl	18	240	135	22	550	84	325	365	349
$SO_4^{2-}$	786	194	52	1,358	1,580	1,342	34	140	175
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	0.37	3.11	0.38	< 0.25	1.08	0.30	0.51	0.69	< 0.25

<sup>1</sup>Lysimeter L-7N did not produce adequate sample volume for analysis on August 17, and was re-sampled on August 24, 2021.

## TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING JULY, AUGUST, AND SEPTEMBER 2021

Parameter	July	August	September
рН	7.8	7.7	7.7
Total Solids Total Volatile Solids <sup>1</sup>	16.4 43.0	16.0 42.5	10.0 43.8

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