

*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

***REPORT NO. 23-32***

***LAWNDALE AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT***

***FOR SECOND QUARTER 2023***

***August 2023***

*Protecting Our Water Environment*

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**Edward W. Podczewski, P.E.**

Director of Monitoring and Research

August 11, 2023

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 April, May, and June 2023

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for April, May, and June 2023, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were placed in the solids drying area in April, May, and June 2023.

Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on May 8, 2023.

Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on May 30, 2023.

Table 3 Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During April, May, and June 2023.

Very truly yours,



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

AC:BM:lf  
Attachment

cc: Mr. J. Patel, IEPA/Mr. T. Bennett, IEPA  
Mr. B. Fleming, IEPA/Dr. H. Zhang

**Metropolitan Water Reclamation District of Greater Chicago**  
100 East Erie Street Chicago, Illinois 60611-2803 (312) 751-5600

**LAWNDALE AVENUE SOLIDS MANAGEMENT AREA  
MONITORING REPORT  
FOR SECOND QUARTER 2023**

**By**

**Benjamin Morgan  
Environmental Soil Scientist**

**Albert Cox  
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15  
 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON  
 MAY 8, 2023

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.4	7.8	7.7	7.6	7.4
	-----mg L <sup>-1</sup> -----				
Cl <sup>-</sup>	20	15	11	11	11
SO <sub>4</sub> <sup>2-</sup>	196	350	654	121	834
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE  
LAWNDAL AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON  
MAY 30, 2023

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	7.2	7.2	7.1	6.8	6.9	6.7	7.8	7.5	7.1
	-----mg/L <sup>-1</sup> -----								
Cl <sup>-</sup>	16	173	129	17	482	79	298	566	306
SO <sub>4</sub> <sup>2-</sup>	728	109	39	1,241	1,450	1,319	1.1	178	137
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	<0.50	3.75	<0.50	0.54	0.97	0.56	0.89	0.71	<0.50

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING APRIL, MAY, AND JUNE 2023

Parameter	April	May	June
pH	7.7	7.7	7.7
		-----%-----	
Total Solids	12.8	9.8	13.0
Total Volatile Solids <sup>1</sup>	42.7	45.2	43.9

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