

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 22-12

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2022

May 2022

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

Edward W. Podczewski, P.E.
Director of Monitoring and Research

May 13, 2022

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 January, February, and March 2022

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2022, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2020-AO-64903. Biosolids were not placed in the solids drying area during the first quarter of 2022.

Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on March 9, 2022.

Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on February 28, 2022.

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
FIRST QUARTER 2022

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
 MARCH 9, 2022

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.9	7.7	7.6	7.8	7.5
	-----mg L ⁻¹ -----				
Cl ⁻	21	15	10	10	9
SO ₄ ²⁻	203	374	676	132	829
NO ₂ ⁻ +NO ₃ ⁻ -N	<0.25	<0.25	<0.25	<0.25	<0.25

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THE
LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON
FEBRUARY 28, 2022

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH	NC ¹	7.4	7.7	7.1	7.3	7.3	NC	NC	7.2
	-----mg L ⁻¹ -----								
Cl ⁻	NC	231	141	24	554	86	NC	NC	358
SO ₄ ²⁻	NC	159	53	1,543	1,634	1,411	NC	NC	177
NO ₂ ⁻ +NO ₃ ⁻ -N	NC	2.34	0.78	0.74	0.81	0.92	NC	NC	0.30

¹Sample could not be collected from L-1N, L-7N, and L-8N because the lysimeters were dry on February 28 and during resampling on March 7 and March 9, 2022.