

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 21-32

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2021

August 2021

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August 12, 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 April, May, and June 2021

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for April, May, and June 2021 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 2021.

- Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on June 2, 2021.
- Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on May 13, 2021.
- Table 3 Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During April, May, and June 2021.

Very truly yours,

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

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

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LAWNDALE AVENUE SOLIDS MANAGEMENT AREA
MONITORING REPORT FOR
SECOND QUARTER 2021

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON JUNE 2, 2021

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.1	7.5	7.4	7.4	7.1
	-----mg L ⁻¹ -----				
Cl	21	14	10	10	9
SO ₄	194	352	647	127	823
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 LAWDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MAY 13, 2021

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	7.4	6.9	7.0	6.8	8.0	7.7	6.9
	-----mg L ⁻¹ -----								
Cl	17	223	130	22	542	43	370	326	333
SO ₄	715	153	50	1,360	1,555	1,252	12	126	165
NO ₂ ⁻ +NO ₃ ⁻ -N	0.31	5.3	0.86	0.63	1.1	<0.25	1.3	0.67	0.28

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA DURING APRIL, MAY, AND JUNE 2021

Parameter	April	May	June
pH	7.8	7.5	7.6
		-----%-----	
Total Solids	14.0	16.7	13.4
Total Volatile Solids	47.2	42.5	42.3

¹Total volatile solids as a percentage of total solids.