

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 20-10

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2020

May 2020

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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 20, 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

Dear Mr. Callaway:

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 2020

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2020 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 2020.

Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on February 19, 2020.

Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled in February 2020.

Very truly yours,



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

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

**LAWNDALE AVENUE SOLIDS MANAGEMENT AREA
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FIRST QUARTER 2020**

Monitoring and Research Department
Edward W. Podczewinski, Director

May 2020

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15
 AT THE LAWDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON
 FEBRUARY 19, 2020

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.5	7.8	7.6	7.7	7.4
	----- mg L ⁻¹ -----				
Cl ⁻	22	15	11	10	8.9
SO ₄ ²⁻	200	344	591	121	797
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 LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED IN FEBRUARY 2020

Parameter	Lysimeter No.								
	L-1N	L-2N ¹	L-3N	L-4N	L-5N	L-6N	L-7N ¹	L-8N	L-9N
pH	7.6	7.8	7.2	7.0	7.2	7.3	7.9	7.7	7.6
	----- mg L ⁻¹ -----								
Cl ⁻	18	119	138	24	588	80	416	444	364
SO ₄ ²⁻	734	106	61	1,457	1,561	1,353	28	146	183
NO ₂ ⁻ +NO ₃ ⁻ -N	0.48	1.78	0.77	0.43	1.57	0.63	0.74	0.84	0.59

¹Lysimeters L-2N and L-7N were sampled on February 27, 2020. All others were sampled on February 19, 2020.