

Metropolitan Water Reclamation District of Greater Chicago

MONITORING AND RESEARCH DEPARTMENT

REPORT NO. 19-23

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2019

September 2019

Protecting Our Water Environment

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

September 11, 2019

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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. 2015-AO-59623, Monitoring Report for April, May, and June 2019

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for April, May, and June 2019 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2015-AO-59623. Biosolids were placed in the solids drying area in May and June.

- Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on June 7, 2019.
- Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on May 8, 2019.
- <u>Table 3</u> Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During May and June 2019.

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

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SECOND QUARTER 2019	
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TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON JUNE 7, 2019

Parameter		Mo	nitoring Well N	lo.	
	M-11	M-12	M-13	M-14	M-15
pН	7.1	7.2	7.5	7.4	7.3
			mg L ⁻¹		
Cl-	17	15	11	11	9
SO ₄ ²⁻	189	358	597	131	838
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 MAY 8, 2019

				Lysin	neter No.			
Parameter	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-8N	L-9N
pН	7.5	7.5	6.9	7.0	7.3	6.6	7.4	7.0
				m	g L-1			
Cl-	17	205	137	24	624	77	398	365
SO_4^{2-}	702	144	72	1,375	1,571	1,330	144	192
NO_2 - $+NO_3$ - N	0.99	4.54	< 0.25	0.59	1.70	0.39	0.83	< 0.25

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA DURING MAY AND JUNE 2019

May ¹	June ²
7.4	7.7
	%
11.1	10.8
43.8	43.6
	7.4

¹Mean of five samples.

²Mean of four samples.

³Total volatile solids as a percentage of total solids.