

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA MONITORING REPORT FOR THIRD QUARTER 2020

Monitoring and Research Department Edward W. Podczerwinski, Director

November 2020



 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

November 12, 2020

Mr. Jim Miles 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. Miles:

Subject: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2020-AO-64903, Monitoring Report for July, August, and September 2020

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

- Table 1Analysis of Water from Monitoring Wells M-11 through M-15 at the
Lawndale Avenue Solids Management Area Sampled on August 24, 2020.
- Table 2Analysis of Water from Lysimeters L-1N through L-9N at the LawndaleAvenue Solids Management Area Sampled in August 2020.
- Table 3Analysis of Biosolids Placed in the Lawndale Avenue Solids ManagementArea During July, August, and September 2020.

Very truly yours,

Abert to

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

AC:BM:cm Attachments cc/att: Mr. J. Patel, IEPA/C. Siders, IEPA Dr. H. Zhang BOARD OF COMMISSIONERS Kari K. Steele President Barbara J. McGowan Vice President Frank Avila Chairman of Finance Cameron Davis Kimberly Du Buclet Marcelino Garcia Josina Morita Debra Shore Mariyana T. Spyropoulos

	Monitoring Well No.						
Parameter	M-11	M-12	M-13	M-14	M-15		
рН	7.1	7.5	7.4	7.6	7.2		
			mg L ⁻¹				
Cl-	27	14	9	9	9		
SO4 ²⁻	204	350	624	837	824		
NO ₂ ⁻ +NO ₃ ⁻ 0N	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25		

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON AUGUST 24, 2020

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N AT THELAWNDALE AVENUE SOLIDS MANAGEMENT AREA SAMPLED IN AUGUST¹ 2020

Parameter	L-1N	L-2N	L-3N	L-4N	Lysime L-5N	ter No. L-6N	L-7N	L-8N	L-9N
pН	7.4	7.3	6.8	7.1	7.0	6.8	6.8	7.8	6.8
pii	·				mg L ⁻¹				
Cl ⁻ SO4 ²⁻ NO2 ⁻ +NO3 ⁻ -N	18 775 0.30	150 198 3.17	145 56 0.76	23 1,443 0.43	574 1,585 1.01	83 1,370 0.54	351 135 2.05	395 140 0.63	377 191 0.66

¹Lysimeters were sampled on August 4, 2020 except L-1N and L-8N, sampled on August 7. Lysimeters, except L-1N and L-8N, were re-sampled on September 30, 2020 for SO_4 analyses, as the results of the August sampling were canceled by the analytical lab due to cold room-temperature reading above the acceptable range.

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNDALE AVENUE SOLIDSMANAGEMENT AREA DURING JULY, AUGUST, AND SEPTEMBER 2020

Parameter	July	August	September
рН	7.6	7.6 %	7.8
Total Solids Total Volatile Solids ¹	11.2 46.1	10.7 45.6	12.8 47.1

¹Total volatile solids as a percentage of total solids.