

*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

***REPORT NO. 19-03***

***LAWNDALE AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***FOURTH QUARTER 2018***

***March 2019***

**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  
FOURTH QUARTER 2018**

**Monitoring and Research Department**  
**Edward W. Podczewinski, Director**

**March 2019**

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

**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

February 26, 2019

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

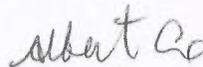
Dear Mr. Callaway:

Subject: Lawndale Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2015-AO-59623, Monitoring Report for October, November, and December 2018

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for October, November, and December 2018 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2015-AO-59623. Biosolids were placed in the solids drying area during October and November.

- Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on December 5, 2018.
- Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on November 14, 2018.
- Table 3 Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During October 2018.
- Table 4 Analysis of Biosolids Placed in the Lawndale Avenue Solids Management Area During November 2018.

Very truly yours,



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

AC:DB:cm  
Attachments  
cc/att: Mr. J. Patel, IEPA/Records Unit, IEPA  
Drs. H. Zhang/G. Tian/D. Brose

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15  
 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA  
 SAMPLED ON DECEMBER 5, 2018

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH	7.6	7.6	7.6	7.3	7.5
	----- mg L <sup>-1</sup> -----				
Cl <sup>-</sup>	20	14	10	9.0	10
SO <sub>4</sub> <sup>2-</sup>	207	341	622	812	127
NO <sub>2</sub> +NO <sub>3</sub> -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 NOVEMBER 14, 2018

Parameter	Lysimeter No.							
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-8N	L-9N
pH	7.2	7.5	7.2	7.7	6.9	6.8	7.4	7.1
	----- mg L <sup>-1</sup> -----							
Cl <sup>-</sup>	17	171	142	25	645	79	377	399
SO <sub>4</sub> <sup>2-</sup>	795	175	72	1,464	1,670	1,445	141	202
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.25	0.79	0.42	0.48	0.87	0.28	0.75	<0.25

TABLE 3: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA DURING OCTOBER 2018

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Parameter	Analysis <sup>1</sup>
pH	7.7
	---- % ----
Total Solids	18
Total Volatile Solids <sup>2</sup>	43

---

<sup>1</sup>Mean of three samples.

<sup>2</sup>Total volatile solids as a percentage of total solids.

TABLE 4: ANALYSIS OF BIOSOLIDS PLACED IN THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA DURING NOVEMBER 2018

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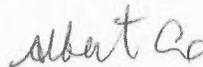
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