

*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

***REPORT NO. 18-11***

***LAWNDALE AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***FIRST QUARTER 2018***

***May 2018***

**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 18, 2018

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 January, February, and March 2018

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

Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on January 16, 2018.

Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on March 6, 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

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

**May 2018**

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15  
 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA  
 SAMPLED ON JANUARY 16, 2018

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH <sup>1</sup>	6.4	7.1	7.5	7.4	7.5
	----- mg L <sup>-1</sup> -----				
Cl <sup>-</sup>	20	14	10	9.0	9.0
SO <sub>4</sub> <sup>2-</sup>	209	353	644	128	854
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.15	<0.15	<0.15	<0.15	<0.15

<sup>1</sup>pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-9N  
 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA  
 SAMPLED ON MARCH 6, 2018

Parameter	Lysimeter No.							
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-8N	L-9N
pH <sup>1</sup>	7.3	7.2	7.2	7.1	7.2	7.1	7.7	7.3
	----- mg L <sup>-1</sup> -----							
Cl <sup>-</sup>	16	141	135	22	605	71	489	354
SO <sub>4</sub> <sup>2-</sup>	733	190	79	1,392	1,609	1,431	188	177
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.15	2.7	<0.15	0.40	0.34	0.26	0.92	<0.15

<sup>1</sup>pH analyzed beyond recommended holding time of five minutes.