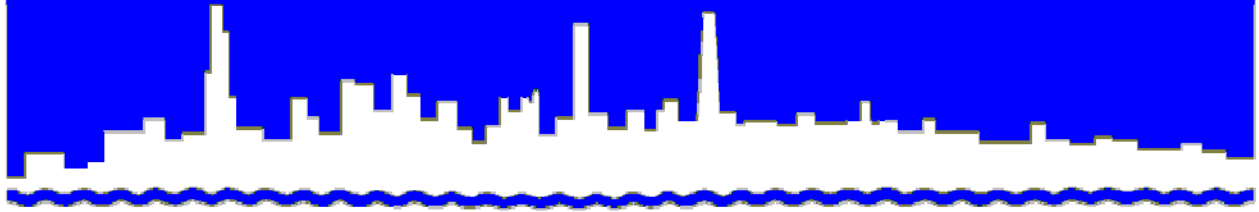


*Protecting Our Water Environment*



***Metropolitan Water Reclamation District of Greater Chicago***

*MONITORING AND RESEARCH  
DEPARTMENT*

***REPORT NO. 17-17***

***LAWNDALE AVENUE SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***FIRST QUARTER 2017***

***May 2017***

# Protecting Our Water Environment

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## Metropolitan Water Reclamation District of Greater Chicago

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**Edward W. Podczerwinski, P.E.**  
Acting Director of Monitoring and Research

May 18, 2017

Mr. S. Alan Keller, P.E.  
Manager, Permit Section  
Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794 - 9276

Dear Mr. Keller:

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 2017

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for January, February, and March 2017 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 2017.

Table 1 Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on February 9, 2017.

Table 2 Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on February 22, 2017.

Very truly yours,

Albert E. Cox, Ph.D.  
Environmental Monitoring and Research Manager  
Monitoring and Research Department

AC:DB:cm  
Attachments  
cc/att: Mr. J. Patel, IEPA  
Records Unit, IEPA  
Mr. E. Podczerwinski  
Dr. H. Zhang  
Dr. 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  
MONITORING REPORT FOR  
FIRST QUARTER 2017**

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

**May 2017**

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15  
 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA  
 SAMPLED ON FEBRUARY 9, 2017

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH <sup>1</sup>	7.0	7.6	7.4	7.5	7.2
	----- mg L <sup>-1</sup> -----				
Cl <sup>-</sup>	25	14	14	10	<5.0
SO <sub>4</sub> <sup>2-</sup>	203	364	626	129	829
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 LAWNDALE AVENUE SOLIDS MANAGEMENT AREA  
 SAMPLED ON FEBRUARY 22, 2017

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH <sup>1</sup>	7.5	7.4	7.3	7.2	7.3	7.1	8.1	7.6	7.3
	----- mg L <sup>-1</sup> -----								
Cl-	14	215	130	10	593	72	617	NRR <sup>2</sup>	341
SO <sub>4</sub> <sup>2-</sup>	739	191	105	1,148	1,606	1,409	<5.0	208	206
NO <sub>2</sub> +NO <sub>3</sub> -N	<0.15	2.1	0.33	0.26	0.68	0.40	0.44	0.39	<0.15

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

<sup>2</sup>NRR=no reportable results. Insufficient sample for analysis.