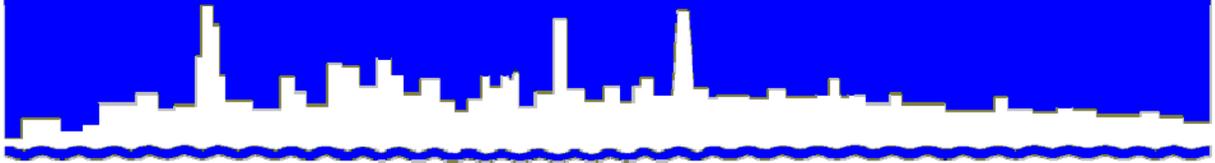


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 15-27

LAWNDALE AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2015

August 2015

Protecting Our Water Environment

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THOMAS C. GRANATO, Ph.D., BCES

Director of Monitoring and Research

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August 24, 2015

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 Nos. 2010-AO-0267-1 and 2015-AO-59623, Monitoring Report for April, May, and June 2015

The attached tables contain the monitoring data for the Lawndale Avenue Solids Management Area for April, May, and June 2015 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit Nos. 2010-AO-0267-1 and 2015-AO-59623. Biosolids were placed in the solids drying area during May and June 2015.

Table 1, Analysis of Water from Monitoring Wells M-11 through M-15 at the Lawndale Avenue Solids Management Area Sampled on April 8, 2015.

Table 2, Analysis of Water from Lysimeters L-1N through L-9N at the Lawndale Avenue Solids Management Area Sampled on June 10, 2015.

Table 3, Analysis of Compositated Biosolids Placed in the Lawndale Avenue Solids Management Drying Area During May and June 2015.

Very truly yours,

Thomas C. Granato, Ph.D., BCES
Director
Monitoring and Research

TCG:DB:cm

Attachment

cc/att: Mr. J. Patel, IEPA
Records Unit, IEPA

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH M-15
 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED ON APRIL 8, 2015

Parameter	Monitoring Well No.				
	M-11	M-12	M-13	M-14	M-15
pH ¹	7.2	7.6	7.3	7.1	7.5
	----- mg L ⁻¹ -----				
Cl ⁻	19	14	10	<10	<10
SO ₄ ²⁻	183	327	601	122	807
NO ₂ +NO ₃ -N	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15

¹pH 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
JUNE 10, 2015

Parameter	Lysimeter No.								
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N	L-7N	L-8N	L-9N
pH ¹	7.6	7.6	7.7	7.5	7.7	7.1	8.1	7.8	7.9
	----- mg L ⁻¹ -----								
Cl ⁻	19	316	139	50	691	74	443	607	327
SO ₄ ²⁻	660	390	190	1,211	1,674	1,399	20	180	176
NO ₂ +NO ₃ -N	< 0.15	0.73	0.85	3.0	1.5	0.45	1.8	0.40	0.45

¹pH analyzed beyond recommended holding time of 15 minutes.

TABLE 3: ANALYSIS OF COMPOSITED BIOSOLIDS PLACED IN THE
LAWNDALE AVENUE SOLIDS MANAGEMENT DRYING AREA
DURING MAY AND JUNE 2015

Parameter	Analysis ¹
pH	7.4
	---- % ----
Total Solids	11
Total Volatile Solids ²	47

¹Mean of 27 samples.

²Total volatile solids as a percentage of total solids.