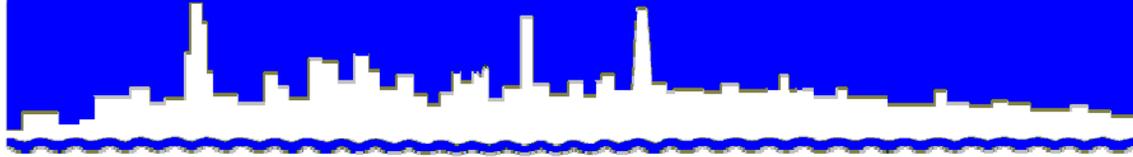


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 15-7

CALUMET EAST SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FOURTH QUARTER 2014

February 2015

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THOMAS C. GRANATO, Ph.D., BCES

Director of Monitoring and Research

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February 5, 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: Calumet East Solids Management Area - Calumet Water Reclamation Plant,
Illinois Environmental Protection Agency Permit No. 2010-AO-0265-1,
Monitoring Report for October, November, and December 2014

The attached tables contain the monitoring data for the Calumet East Solids Management Area for October, November, and December 2014 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0265-1.

Biosolids were placed in the solids drying area during October and November 2014. The data reported are as follows:

Table 1, Analysis of Water from Lysimeters L-1N through L-6N at the Calumet East Solids Management Area Sampled on October 22, 2014.

Table 2, Analysis of Composited Biosolids Placed in the Calumet East Solids Management Area During October and November 2014.

Very truly yours,

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

TCG:DB:cm
Attachment

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

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N
 AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON
 OCTOBER 22, 2014

Parameter	Lysimeter No.					
	L-1N	L-2N	L-3N	L-4N	L-5N	L-6N
pH ¹	7.6	7.7	7.5	7.3	7.6	7.9
	----- mg L ⁻¹ -----					
Cl ⁻	179	149	63	826	233	20
SO ₄ ²⁻	116	880	566	436	560	759
NO ₂ +NO ₃ -N	0.77	0.19	0.17	0.26	0.54	< 0.15

¹pH analyzed beyond recommended holding time of 15 minutes.

TABLE 2: ANALYSIS OF COMPOSITED BIOSOLIDS PLACED IN THE CALUMENT EAST SOLIDS MANAGEMENT DRYING AREA DURING OCTOBER AND NOVEMBER 2014

Parameter	Analysis ¹
pH	6.9
	---- % ----
Total Solids	33
Total Volatile Solids ²	42

¹Mean of four samples.

²Total volatile solids as a percentage of total solids.