

*Protecting Our Water Environment*



**Metropolitan Water Reclamation District of Greater Chicago**

*MONITORING AND RESEARCH  
DEPARTMENT*

**REPORT NO. 14-50**

**CALUMET WEST SOLIDS MANAGEMENT AREA**

**MONITORING REPORT FOR**

**THIRD QUARTER 2014**

**November 2014**

# Protecting Our Water Environment



## Metropolitan Water Reclamation District of Greater Chicago

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November 14, 2014

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 West Solids Management Area - Calumet Water Reclamation Plant,  
Illinois Environmental Protection Agency Permit No. 2010-AO-0265-1,  
Monitoring Report for July, August, and September 2014

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

The data reported are as follows:

Table 1, Analysis of Water from Lysimeters L-1N through L-3N at the Calumet West Solids Management Area Sampled on July 9, 2014.

Table 2, Analysis of Compositated Biosolids Placed in the Calumet West Solids Management Area During July, August, and September 2014.

Biosolids were placed in the solids drying area during July, August, and September 2014. Based on the requirements of the revised IEPA permit issued on January 27, 2014, and effective immediately, analysis of biosolids removed from this site will no longer be reported under this permit. The list of parameters for lysimeter samples has also been modified to include only pH, Cl<sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, and NO<sub>2</sub>+NO<sub>3</sub>-N.

Very truly yours,

Thomas C. Granato, Ph.D.  
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-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON JULY 9, 2014.

Parameter	Lysimeter No.		
	L-1N	L-2N	L-3N
pH <sup>1</sup>	7.7	7.8	7.6
	----- mg L <sup>-1</sup> -----		
Cl <sup>-</sup>	69	26	59
SO <sub>4</sub> <sup>2-</sup>	1,864	1,822	113
NO <sub>2</sub> +NO <sub>3</sub> -N	< 0.15	< 0.15	0.46

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

TABLE 2: ANALYSIS OF COMPOSITED BIOSOLIDS PLACED IN THE CALUMET WEST SOLIDS MANAGEMENT DRYING AREA DURING JULY, AUGUST, AND SEPTEMBER 2014

Parameter	Analysis <sup>1</sup>
pH	7.6
	---- % ----
Total Solids	5.9
Total Volatile Solids <sup>2</sup>	53

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

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