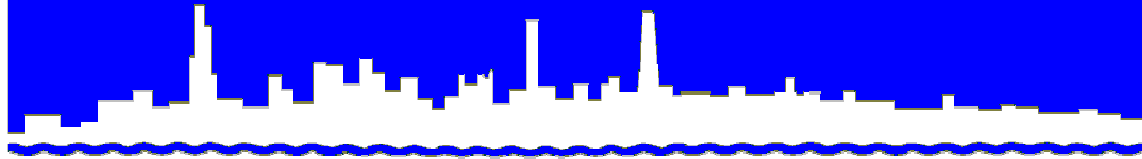


*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

*REPORT NO. 11-31*

*CALUMET EAST SOLIDS MANAGEMENT AREA*

*MONITORING REPORT FOR*

*FIRST QUARTER 2011*

*JUNE 2011*

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**Thomas C. Granato, Ph.D.**  
Acting Director of Monitoring and Research  
thomas.granato@mwr.org

June 6, 2011

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, Monitoring Report for January, February, and March 2011

The attached table contains the monitoring data for the Calumet East Solids Management Area for January, February, and March 2011 as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0265. 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 March 9, 2011

No biosolids were placed in or removed from the solids drying area during January, February, and March 2011.

Very truly yours,

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

TCG:CO'C:AC:PL:cm

TCG:PL:cm

Attachments

cc w/att: Mr. Sulski, IEPA  
Records Unit, IEPA  
Granato/O'Connor

bcc: Cox/Lindo

**TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N  
THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT  
AREA SAMPLED ON MARCH 9, 2011**

Parameter	Unit	Lysimeter No.			
		L-1N	L-2N	L-3N	L-4N
pH <sup>1</sup>		8.0	8.0	8.1	7.8
EC	mS/m	450	408	327	730
Total Dissolved Solids	mg/L	4,008	3,692	2,892	6,164
Total Dissolved Organic Carbon	"	9	17	6	11
Cl <sup>-</sup>	"	226	162	75	935
SO <sub>4</sub> <sup>=</sup>	"	1,998	1,795	1,478	2,352
TKN	"	12	3	1	3
NH <sub>3</sub> -N	"	4	2	0.3	2
NO <sub>2</sub> + NO <sub>3</sub> -N		1.1	0.33	0.59	0.40
Total P		0.15	4.3	0.13	0.36
Alkalinity as CaCO <sub>3</sub>		531	582	459	663
Al	"	< 1.0	< 1.0	< 1.0	< 1.0
Ca	"	478	515	415	592
Cd	"	< 0.001	< 0.001	< 0.001	< 0.001
Cr	"	< 0.003	< 0.003	< 0.003	< 0.003
Cu	"	< 0.005	< 0.005	< 0.005	< 0.005
Fe		15	26	1	76
Hg	μg/L	< 0.20	< 0.20	< 0.20	< 0.20
K	mg/L	10	10	6	12
Mg	"	272	237	198	318
Mn		0.190	0.743	0.559	0.574
Na		177	108	62	696
Ni		< 0.008	< 0.008	< 0.008	< 0.008
Pb		< 0.03	< 0.03	< 0.03	< 0.03
Zn		< 0.02	< 0.02	< 0.02	< 0.02

TABLE 1 (Continued): ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 9, 2011

Parameter	Unit	Lysimeter No.	
		L-5	L-6N
pH <sup>1</sup>		8.0	8.2
EC	mS/m	201	168
Total Dissolved Solids	mg/L	1,580	1,516
Total Dissolved Organic Carbon	"	2	8
Cl <sup>-</sup>		235	29
SO <sub>4</sub> <sup>=</sup>		585	653
TKN	"	< 0.5	1
NH <sub>3</sub> -N	"	0.3	0.9
NO <sub>2</sub> + NO <sub>3</sub> -N	"	0.19	0.35
Total P	"	< 0.10	4.4
Alkalinity as CaCO <sub>3</sub>	"	248	366
Al	"	< 1.0	< 1.0
Ca	"	192	203
Cd	"	< 0.001	< 0.001
Cr	"	< 0.003	< 0.003
Cu	"	< 0.005	< 0.005
Fe	"	< 0.2	3
Hg	μg/L	< 0.20	< 0.20
K	mg/L	4	5
Mg	"	102	88.7
Mn		0.013	0.259
Na	"	93	77
Ni	"	< 0.008	0.013
Pb	"	< 0.03	< 0.03
Zn	"	< 0.02	< 0.02

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