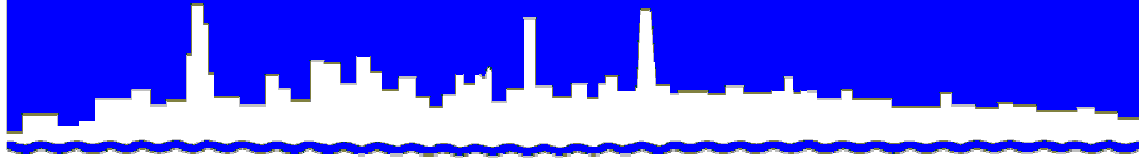


*Protecting Our Water Environment*



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

***MONITORING AND RESEARCH  
DEPARTMENT***

***REPORT NO. 12-19***

***CALUMET EAST SOLIDS MANAGEMENT AREA***

***MONITORING REPORT FOR***

***FIRST QUARTER 2012***

***JUNE 2012***

# Protecting Our Water Environment

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**Thomas C. Granato, Ph.D.**

Director of Monitoring and Research Department

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June 1, 2012

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 2012

The attached table contains the monitoring data for the Calumet East Solids Management Area for January, February, and March 2012 as required by Illinois Environmental Protection Agency 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 14, 2012

No biosolids were placed in or removed from the solids drying area during January, February, and March 2012.

Very truly yours,

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

TCG:PL:cm  
Attachment  
cc w/att: R. Sulski, 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 MARCH 14, 2012

Parameter	Unit	Lysimeter No.			
		L-1N	L-2N	L-3N	L-4N
pH <sup>1</sup>		8.1	7.9	8.0	7.8
EC	mS/m	389	355	290	673
Total Dissolved Solids	mg/L	4,056	3,986	3,098	6,384
Total Dissolved Organic Carbon	"	8	14	6	10
Cl <sup>-</sup>	"	160	126	47	657
SO <sub>4</sub> <sup>=</sup>	"	1,839	1,775	1,439	2,327
TKN	"	12	3	< 1	3
NH <sub>3</sub> -N	"	4	2	0.5	2
NO <sub>2</sub> + NO <sub>3</sub> -N	"	0.16	< 0.15	< 0.15	< 0.15
Total P	"	< 0.10	4.4	0.48	0.31
Alkalinity as CaCO <sub>3</sub>	"	494	525	422	636
Al	"	< 1.0	< 1.0	< 1.0	< 1.0
Ca	"	483	535	430	605
Cd	"	< 0.001	< 0.001	< 0.001	< 0.001
Cr	"	< 0.005	< 0.005	< 0.005	< 0.005
Cu	"	< 0.005	< 0.005	< 0.005	< 0.005
Fe	"	2	23	7	76
Hg	μg/L	< 0.20	< 0.20	< 0.20	< 0.20
K	mg/L	10	10	6	13
Mg	"	279	254	209	332
Mn	"	0.212	0.631	0.535	0.542
Na	"	179	113	64	729
Ni	"	0.009	< 0.005	< 0.005	< 0.005
Pb	"	< 0.02	< 0.02	< 0.02	< 0.02
Zn	"	0.02	< 0.01	< 0.01	< 0.01

TABLE 1 (Continued): ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-6N AT THE CALUMET EAST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 14, 2012

Parameter	Unit	Lysimeter No.	
		L-5	L-6N
pH <sup>1</sup>		7.8	8.2
EC	mS/m	197	176
Total Dissolved Solids	mg/L	1,674	1,618
Total Dissolved Organic Carbon	"	< 1	7
Cl <sup>-</sup>	"	205	15
SO <sub>4</sub> <sup>=</sup>	"	543	705
TKN	"	< 1	< 1
NH <sub>3</sub> -N	"	0.2	0.9
NO <sub>2</sub> + NO <sub>3</sub> -N	"	0.16	0.16
Total P	"	< 0.10	4.0
Alkalinity as CaCO <sub>3</sub>	"	235	346
Al	"	< 1.0	< 1.0
Ca	"	207	216
Cd	"	< 0.001	< 0.001
Cr	"	< 0.005	< 0.005
Cu	"	< 0.005	< 0.005
Fe	"	0.7	3
Hg	μg/L	< 0.20	< 0.20
K	mg/L	4	4
Mg	"	98	97
Mn	"	0.073	0.242
Na	"	91	81
Ni	"	< 0.005	< 0.005
Pb	"	< 0.02	< 0.02
Zn	"	< 0.01	< 0.01

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