Metropolitan Water Reclamation District of Greater Chicago

MONITORING AND RESEARCH DEPARTMENT

REPORT NO. 11-33

CALUMET WEST SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

FIRST QUARTER 2011

JUNE 2011

Protecting Our Water Environment

Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street Chicago, Illinois 60611-3154 f: 312.751.5194 312.751.5190

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

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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 West 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 West 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-3N at the Calumet West 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:PL:cm
Attachments
cc w/att: Mr. Sulski, IEPA
Records Unit, IEPA
Granato/O'Connor

TABLE 1: ANALYSIS OF WATER FROM LYSIMETERS L-1N THROUGH L-3N AT THE CALUMET WEST SOLIDS MANAGEMENT AREA SAMPLED ON MARCH 9, 2011

Parameter	Unit	Lysimeter No. L-1N	L-2N	L-3N
pH[1]		8.1	9.4	8.1
EC	mS/m	345	218	336
Total Dissolved Solids	mg/L	2,996	2,496	3,668
Total Dissolved Organic Carbon	"	3	6	3
Cl^-		81	16	62
$SO_4^=$		1,643	1,479	2,037
TKN	"	0.8	2	1
NH_3-N	"	0.7	2	0.9
$NO_2 + NO_3$-N	"	0.21	0.27	0.27
Total P	"	< 0.10	< 0.10	0.21
Alkalinity as $CaCO_3$	"	273	53	269
Al	"	< 1.0	< 1.0	< 1.0
Ca	"	306	445	393
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	< 0.003	< 0.003	< 0.003
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	1	< 0.2	1
Hg	µg/L	< 0.20	< 0.20	< 0.20
K	mg/L	13	30	9
Mg	"	205	10.3	244
Mn		0.079	0.004	0.322
Na	"	174	201	195
Ni	"	< 0.008	< 0.008	< 0.008
Pb	"	< 0.03	< 0.03	< 0.03
Zn	"	< 0.02	< 0.02	< 0.02

[1]pH analyzed beyond recommended holding time of 15 minutes.