

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 11-68

RIDGELAND AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

THIRD QUARTER 2011

NOVEMBER 2011

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

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Thomas C. Granato, Ph.D.

Director of Monitoring and Research Department
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November 30, 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: Ridgeland Avenue Solids Management Area - Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0267, Monitoring Report for July, August, and September 2011

The attached table contains the monitoring data for the Ridgeland Avenue Solids Management Area for July, August, and September 2011 as required by Illinois Environmental Protection Agency Operating Permit No. 2010-AO-0267.

The data reported are as follows:

Table 1, Analysis of Water from Lysimeter L-2N at the Ridgeland Avenue Solids Management Area Sampled During July, August, and September 2011

No biosolids were placed in or removed from the solids drying area during July, August, and September 2011.

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 LYSIMETER L-2N
 AT THE RIDGELAND AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED DURING JULY, AUGUST, AND SEPTEMBER 2011

Parameter	Unit	Date Sampled		
		07/20/11	08/03/11	09/14/11
pH ¹		8.0	7.7	8.0
EC	mS/m	269	279	262
Total Dissolved Solids	mg/L	2,426	2,508	2,058
Total Dissolved Organic Carbon	"	8	9	7
Cl ⁻	"	321	335	341
SO ₄ ⁼	"	269	263	290
TKN	"	35	40	40
NH ₃ -N	"	37	39	39
NO ₂ + NO ₃ -N	"	1.3	0.34	1.4
Total P	"	0.15	< 0.10	0.20
Alkalinity as CaCO ₃	"	802	876	826
Al	"	< 1.0	< 1.0	< 1.0
Ca	"	226	241	226
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	< 0.003	< 0.003	< 0.003
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	4	2	4
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	11	12	12
Mg	"	136	141	144
Mn	"	0.108	0.126	0.091
Na	"	103	112	114
Ni	"	< 0.008	< 0.008	< 0.008
Pb	"	< 0.03	< 0.03	< 0.03
Zn	"	< 0.02	< 0.02	< 0.02

¹pH analyzed beyond recommended holding time of 15 minutes.