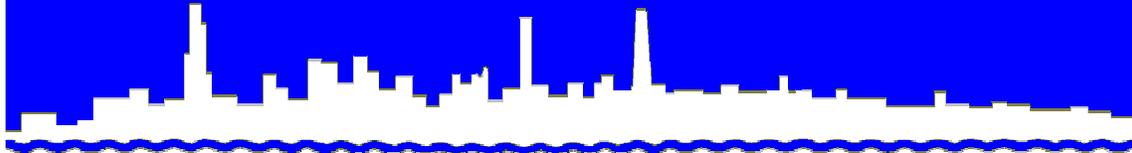


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 11-46

122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT AREA

MONITORING REPORT FOR

SECOND QUARTER 2011

AUGUST 2011

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
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August 29, 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: 122nd and Stony Island Avenue Solids Management Area – Stickney Water Reclamation Plant, Illinois Environmental Protection Agency Permit No. 2010-AO-0267, Monitoring Report for April, May, and June 2011

The attached two tables contain the monitoring data for the 122nd and Stony Island Avenue Solids Management Area for April, May, and June 2011 as required by the Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2010-AO-0267.

The data reported are as follows:

Table 1, Analysis of Water from Lysimeter L-1 at the 122nd and Stony Island Avenue Solids Management Area Sampled During April, May, and June 2011

Table 2, Analysis of Water from Lysimeters L-2 Through L-4 at the 122nd and Stony Island Avenue Solids Management Area Sampled on May 11, 2011

No biosolids were placed in or removed from the solids drying area during April, May, and June 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
C. O'Connor

TABLE 1: ANALYSIS OF WATER FROM LYSIMETER L-1
 AT THE 122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED DURING APRIL, MAY, AND JUNE 2011

Parameter	Unit	Date Sampled		
		04/06/11	05/11/11	06/01/11
pH ¹		8.3	7.8	7.8
EC	mS/m	245	299	293
Total Dissolved Solids	mg/L	2,204	2,150	2,226
Total Dissolved Organic Carbon	"	39	43	42
Cl ⁻	"	204	170	193
SO ₄ ⁼	"	355	290	290
TKN	"	28	30	26
NH ₃ -N	"	26	26	26
NO ₂ + NO ₃ -N	"	1.4	0.21	0.11
Total P	"	< 0.10	0.24	< 0.10
Alkalinity as CaCO ₃	"	1,240	1,260	1,312
Al	"	< 1.0	< 1.0	< 1.0
B	"	3.8	3.7	4.1
Ca	"	299	307	314
Cd	"	< 0.001	< 0.001	< 0.001
Cr	"	< 0.003	< 0.003	< 0.003
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	12	17	17
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	24	24	25
Mg	"	137	133	134
Mn	"	0.372	0.407	0.398
Na	"	197	200	213
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.

TABLE 2: ANALYSIS OF WATER FROM LYSIMETERS L-2 THROUGH L-4 AT THE 122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT AREA SAMPLED ON MAY 11, 2011

Parameter	Unit	Lysimeter No.		
		L-2	L-3	L-4
pH ¹		7.9	7.8	8.1
EC	mS/m	232	292	233
Total Dissolved Solids	mg/L	1,554	2,592	1,544
Total Dissolved Organic Carbon	"	16	48	23
Cl ⁻	"	420	109	254
SO ₄ ⁼	"	124	511	81
TKN	"	2	11	6
NH ₃ -N	"	1	7	5
NO ₂ + NO ₃ -N	"	0.18	0.30	0.06
Total P	"	0.12	< 0.10	< 0.10
Alkalinity as CaCO ₃	"	452	1,273	875
Al	"	< 1.0	< 1.0	< 1.0
B	"	0.79	0.41	1.4
Ca	"	119	492	181
Cd	"	0.002	< 0.001	< 0.001
Cr	"	< 0.003	< 0.003	< 0.003
Cu	"	< 0.005	< 0.005	< 0.005
Fe	"	13	21	1
Hg	μg/L	< 0.20	< 0.20	< 0.20
K	mg/L	39	6	22
Mg	"	74.5	157	94.7
Mn	"	0.929	0.455	0.146
Na	"	241	54	210
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.