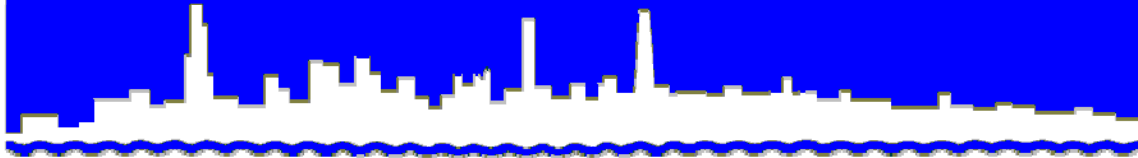


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

*MONITORING AND RESEARCH
DEPARTMENT*

REPORT NO. 13-3

122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT

AREA MONITORING REPORT FOR

FOURTH QUARTER 2012

March 2013

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March 8, 2013

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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 October, November, and December 2012

The attached two tables contain the monitoring data for the 122nd and Stony Island Avenue Solids Management Area for October, November, and December 2012 as required by 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 October, November, and December 2012

Table 2, Analysis of Water from Lysimeters L-2 Through L-4 at the 122nd and Stony Island Avenue Solids Management Area Sampled on November 14, 2012

No biosolids were placed in or removed from the solids drying area during October, November, and December 2012.

Very truly yours,

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

TCG:PL:cm

Attachments

cc w/att: Mr. J. Patel, IEPA
Region 2 – Des Plaines
Records Unit, IEPA

TABLE 1: ANALYSIS OF WATER FROM LYSIMETER L-1
 AT THE 122ND AND STONY ISLAND AVENUE SOLIDS MANAGEMENT
 AREA SAMPLED DURING OCTOBER, NOVEMBER, AND DECEMBER 2012

Parameter	Unit	Date Sampled		
		10/03/12	11/14/12	12/12/12
pH ¹				7.7
EC	mS/m			322
Total Dissolved Solids	mg/L			2,362
Total Dissolved Organic Carbon	"			37
Cl ⁻	"			265
SO ₄ ⁼	"	L	L	298
		Y	Y	
TKN	"	S	S	34
NH ₃ -N	"	I	I	31
NO ₂ + NO ₃ -N	"	M	M	0.18
Total P	"	E	E	< 0.10
Alkalinity as CaCO ₃	"	T	T	1,072
		E	E	
Al	"	R	R	< 1.0
B	"			9.4
Ca	"	M	M	352
Cd	"	A	A	< 0.001
Cr	"	L	L	< 0.005
		F	F	
Cu	"	U	U	0.007
Fe	"	N	N	0.7
Hg	μg/L	C	C	< 0.20
K	mg/L	T	T	27
Mg	"	I	I	142
		O	O	
Mn	"	N	N	0.346
Na	"			199
Ni	"			< 0.005
Pb	"			< 0.02
Zn	"			0.05

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 NOVEMBER 14, 2012

Parameter	Unit	Lysimeter No.		
		L-2	L-3	L-4
pH ¹			7.8	8.3
EC	mS/m		273	204
Total Dissolved Solids	mg/L		2,556	1,388
Total Dissolved Organic Carbon	"		49	20
Cl ⁻	"		102	310
SO ₄ ⁼	"	L	474	57
TKN	"	Y		
NH ₃ -N	"	S	11	6
NO ₂ + NO ₃ -N	"	I	9	6
Total P	"	M	< 0.15	< 0.15
Alkalinity as CaCO ₃	"	E	< 0.10	< 0.10
Al	"	T	1,028	599
B	"	E		
Ca	"	R	< 1.0	< 1.0
Cd	"		0.43	1.4
Cr	"	M	481	149
Cu	"	A	< 0.001	< 0.001
Fe	"	L	< 0.005	< 0.005
Hg	μg/L	F		
K	mg/L	U	< 0.005	< 0.005
Mg	"	N	25	3
Mn	"	C	< 0.20	< 0.20
Na	"	T	6	21
Ni	"	I	151	82
Pb	"	O		
Zn	"	N	0.383	0.127
			49	192
			0.006	< 0.005
			< 0.02	< 0.02
			0.02	< 0.01

¹pH analyzed beyond recommended holding time of 15 minutes.