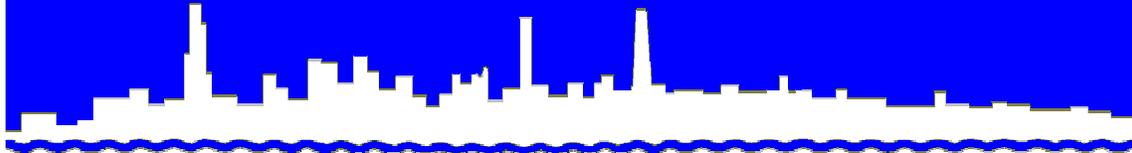


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 11-58

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

July 2011 (Revised)

November 2011

Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street

Chicago, Illinois 60611-3154

312.751.5190

Thomas C. Granato, Ph.D.

Director of Monitoring and Research

thomas.granato@mwrdd.org

November 10, 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: Metropolitan Water Reclamation District of Greater Chicago – Controlled Solids Distribution Program, Illinois Environmental Protection Agency Permit No. 2010-SC-0200, July 2011 - Revised

This letter transmits information and data for the Metropolitan Water Reclamation District of Greater Chicago - Controlled Solids Distribution Program for July 2011, as required by Illinois Environmental Protection Agency Permit No. 2010-SC-0200. The data in [Table 1](#) and [Figure 3](#) of the earlier report submitted on September 29, 2011, have been revised. The report was revised because 26.3 dry tons of the biosolids delivered to Triton College in July were returned to the Stickney Water Reclamation Plant drying site. Please replace the September 29, 2011, report with this revised report.

Sludge flow schematic diagrams for solids processed during July 2011 are shown in [Figure 1](#)- John E. Egan Water Reclamation Plant (WRP), [Figure 2](#) - Calumet WRP, and [Figure 3](#) - Stickney WRP.

Biosolids were distributed to 18 sites in July. The user information report for those sites is presented in [Table 1](#), and the analysis of the composited biosolids delivered to those sites is presented in [Table 2](#).

Very truly yours,

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

TCG:OO:cm

Attachments

cc: V. Aistars (USEPA)

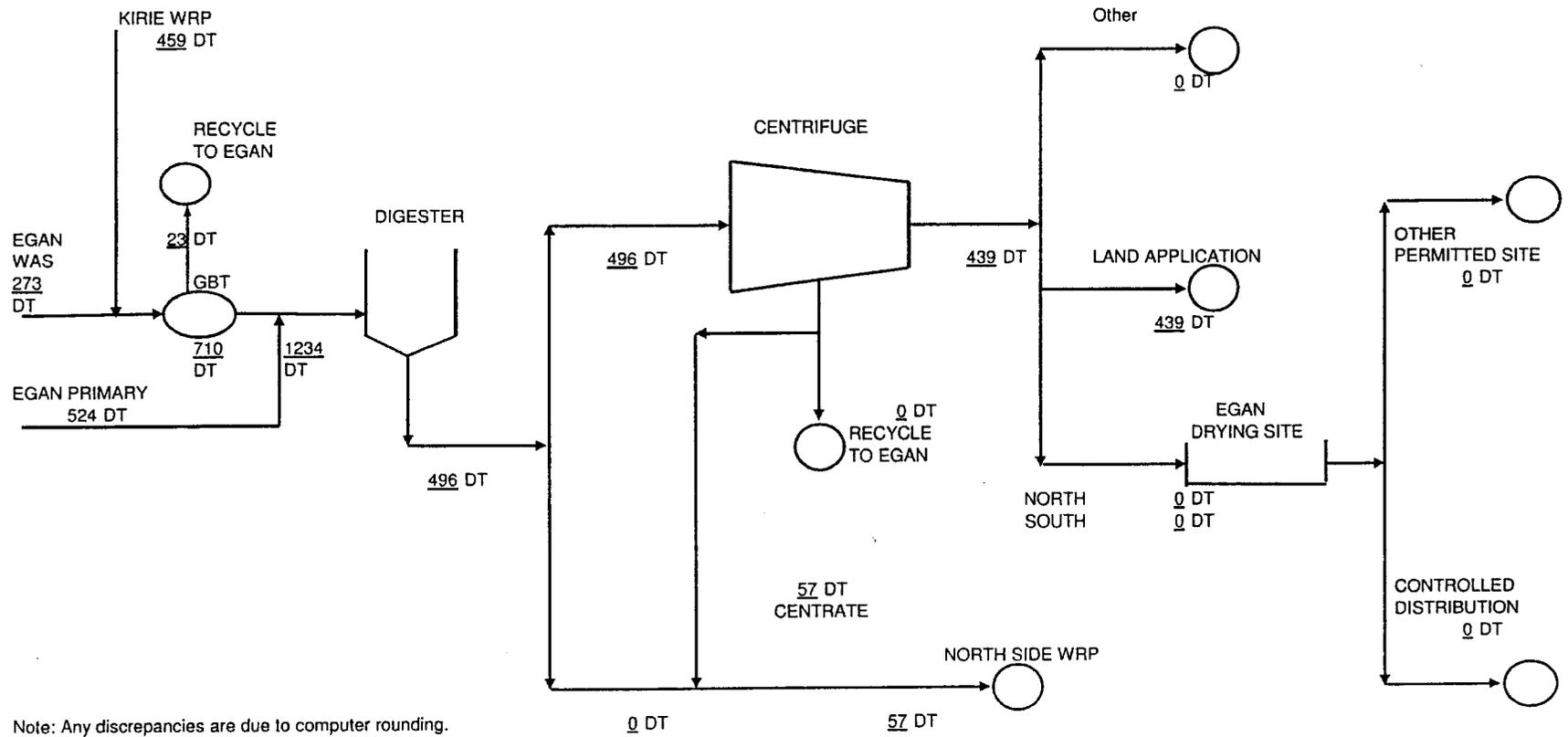
R. Sulski (IEPA)

K. Kits

C. O'Connor

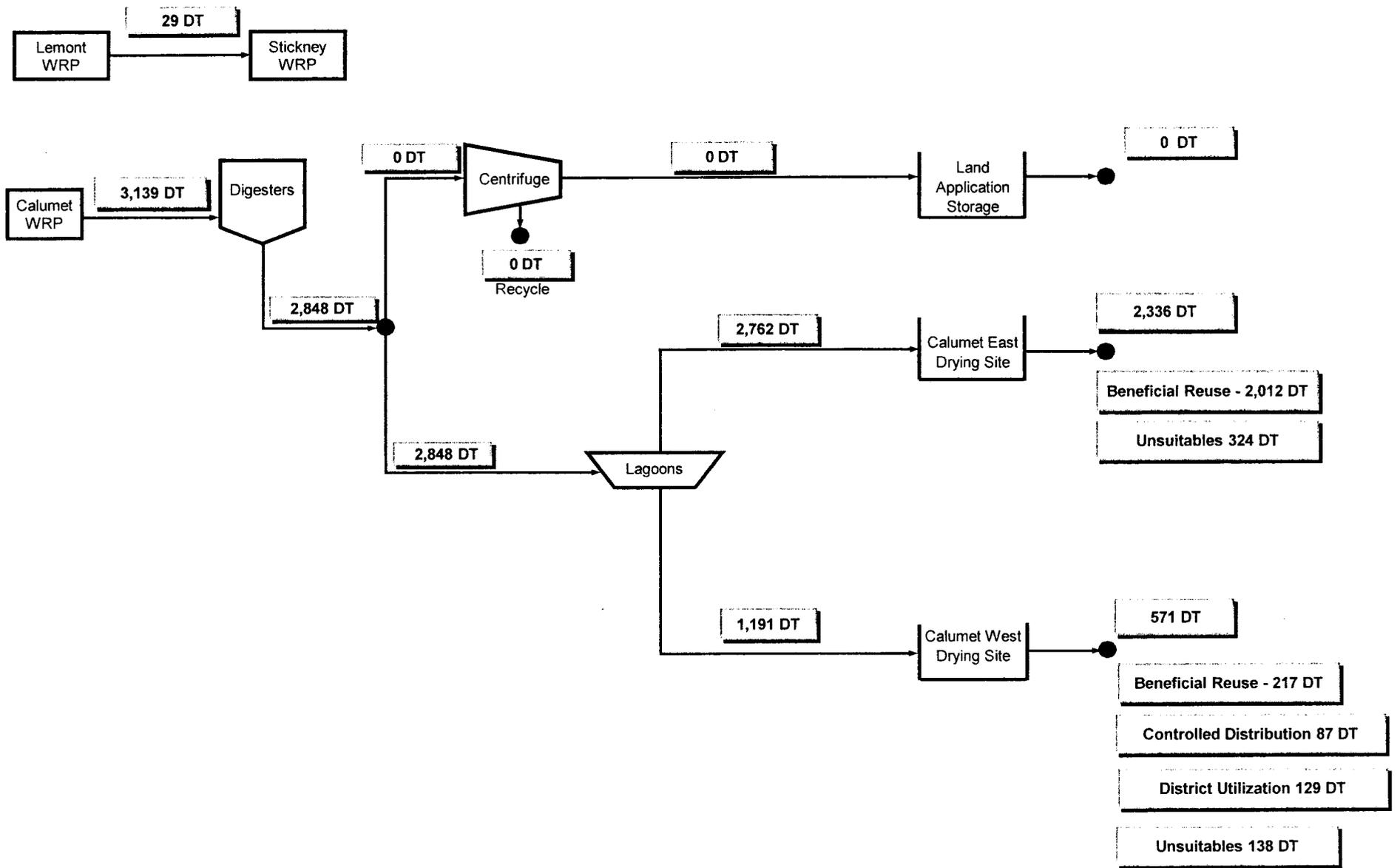
J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

July-11



CALUMET WRP SOLIDS DISTRIBUTION - July 2011

Figure 2



STICKNEY WATER RECLAMATION PLANT SOLIDS DISTRIBUTION FOR JULY 2011

FIGURE 3

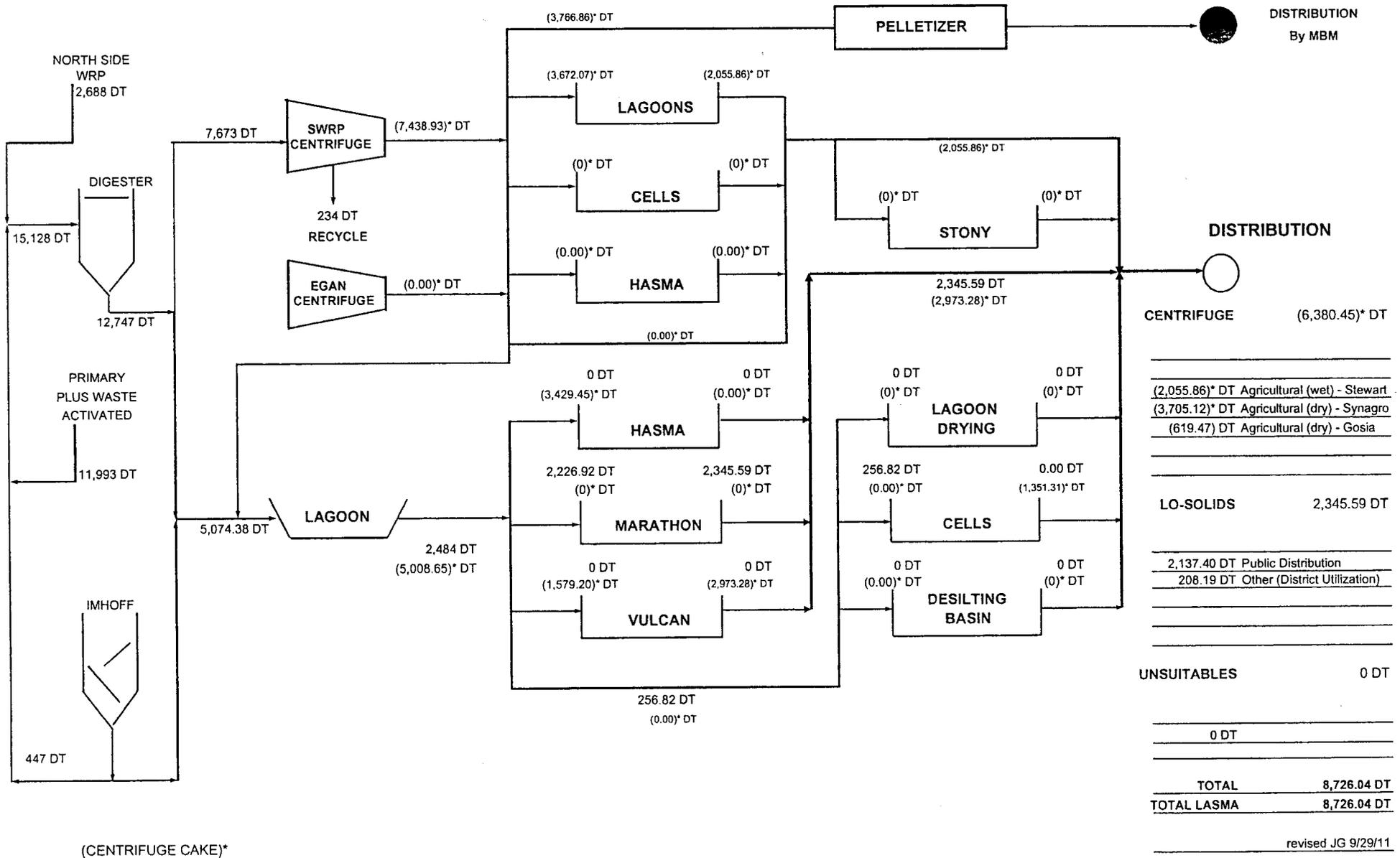


TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION REPORT
FOR AGITATION-DRIED, ANAEROBICALLY-DIGESTED SOLIDS

Location No.	Name and Address of User	Source	Dates	Quantity (dry tons)		Biosolids Use	Application	
				2011 July	2011 Cumulative		Area (acres)	Rate (tons/acre)
1	Town of Leyden Franklin Park 2501 N. Mannheim Rd Leyden, IL 60018	Stickney WRP	5	10.8	12.6	Topdressing as fertilizer for turf growth	1	10.8
2	Cinder Ridge Golf Course 24801 Lakepoint Drive Wilmington, IL 60481	Stickney WRP	6, 7, 8	284.9	434.7	Topdressing as fertilizer for turf growth	11	25.9
3	Hillcrest High School 17401 S. Pulaski Rd. Country Club Hills, IL 60478	Stickney WRP	6	92.4	92.4	Topdressing as fertilizer for turf growth	4	23.1
4	Summit Park District Skate Park 5700 S. Archer Ave. Summit, IL 60501	Stickney WRP	6	32.6	32.6	Topdressing as fertilizer for turf growth	2	16.3
5	Calumet WRP Metropolitan Water Reclamation District of Greater Chicago Chicago, IL 60628	Stickney WRP	7	208.0	1,019.8	Incorporation with top soil for turf growth	3	69.3
		Calumet WRP	22	129.0	129.0	Incorporation with top soil for turf growth	2	64.5

TABLE 1 (Continued.): CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION
REPORT FOR AGITATION-DRIED, ANAEROBICALLY-DIGESTED SOLIDS

Location No.	Name and Address of User	Source	Dates	Quantity (dry tons)		Biosolids Use	Application	
				2011 July	2011 Cumulative		Area (acres)	Rate (tons/acre)
6	St. Charles Park District Campton Hills Park 201 S. 7th St. St. Charles, IL 60174	Stickney WRP	7, 8	112.5	112.5	Topdressing as fertilizer for turf growth	5	22.5
7	Woodridge Park District Cypress Cove Park 2600 Center Drive Woodridge, IL 60517	Stickney WRP	7, 8, 12	76.6	93.2	Topdressing as fertilizer for turf growth	3	25.5
8	East Leyden High School 3400 Rose St. Franklin Park, IL 60131	Stickney WRP	8	66.0	66.0	Topdressing as fertilizer for turf growth	2	33.0
9	Frankfort Park District Main Park 140 Oak St. Frankfort, IL 60423	Stickney WRP	8	60.5	60.5	Topdressing as fertilizer for turf growth	3	20.2
10	Evanston High School 1600 Dodge Ave. Evanston, IL 60201	Stickney WRP	8, 11, 13, 18, 19	146.3	178.2	Topdressing as fertilizer for turf growth	5	29.3
		Calumet WRP	22	38.9	38.9	Topdressing as fertilizer for turf growth	2	19.4

TABLE 1 (Continued.): CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION
REPORT FOR AGITATION-DRIED, ANAEROBICALLY-DIGESTED SOLIDS

Location No.	Name and Address of User	Source	Dates	Quantity (dry tons)		Biosolids Use	Application	
				2011 July	2011 Cumulative		Area (acres)	Rate (tons/acre)
11	St. Charles Park District East Side Sports Complex 201 S. 7th St. St. Charles, IL 60174	Stickney WRP	12, 13	131.8	131.8	Topdressing as fertilizer for turf growth	6	22.0
12	Posen Park District Memorial Park 14200 S. Campbell Ave Posen, IL 60469	Stickney WRP	12	43.5	43.5	Topdressing as fertilizer for turf growth	2	21.7
13	River Trails Park District Willow Park 1500 E. Euclid Mount Prospect, IL 60056	Stickney WRP	13	121.1	121.1	Topdressing as fertilizer for turf growth	6	20.2
14	Chicago Park District Ping Tom Memorial Park 300 W. 19th St. Chicago, IL 60616	Stickney WRP	15, 18	599.5	599.5	Incorporation with top soil for turf growth	10	59.9
15	Triton College 2000 5th Ave. River Grove, IL 60171	Stickney WRP	18	47.4	47.4	Topdressing as fertilizer for turf growth	2	23.7
16	Village Green of Woodridge Jane Park 1575 W. 75th St. Woodridge, IL 60517	Stickney WRP	18	33.6	33.6	Topdressing as fertilizer for turf growth	2	16.8

TABLE 1 (Continued.): CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION
 REPORT FOR AGITATION-DRIED, ANAEROBICALLY-DIGESTED SOLIDS

Location No.	Name and Address of User	Source	Dates	Quantity (dry tons)		Biosolids Use	Application	
				2011 July	2011 Cumulative		Area (acres)	Rate (tons/acre)
17	Chicago Park District Jackson Park 6401 S. Stony Island Ave. Chicago, IL 60637	Stickney WRP	18, 19	277.9	277.9	Incorporation with top soil for turf growth	5	55.6
18	Blue Island Park District Memorial Park 12804 S. Highland Ave. Blue Island, IL 60406	Calumet WRP	22	47.9	47.9	Topdressing as fertilizer for turf growth	2	24.0

TABLE 2: ANALYSIS OF DIGESTED BIOSOLIDS APPLIED TO LAND FROM THE STICKNEY AND CALUMET WATER RECLAMATION PLANTS DRYING AREA DURING JULY 2011

User Location No. ¹	Stickney WRP					Calumet WRP	
	1	2, 3, 4, 5, 6, 7, 8, 9	7, 10, 11, 12, 13	14	14, 15, 16, 17,	5, 10, 18	
<u>Constituent</u>	<u>Unit</u>						
pH	6.0	6.0	6.3	7.3	6.7	7.0	
Total Solids	%	69.9	69.7	74.3	62.1	76.0	77.6
Total Volatile Solids	"	35.5	41.0	40.9	40.8	40.3	43.9
Total Kjeldahl-N	"	18,074	19,967	20,830	22,089	15,648	31,825
NH ₃ -N	"	227	329	619	2,880	1,147	7,215
Total P	"	21,052	24,117	25,580	22,306	19,411	24,131
As	"	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Cd	"	3.2	3.4	3.5	3.5	3.1	3.1
Cr	"	161	165	168	147	159	140
Cu	"	408	450	447	468	409	388
Hg	"	1.2	1.1	1.3	1.3	1.3	0.9
K	"	3,266	2,744	2,391	2,407	2,895	2,561
Mn	"	594	584	599	578	574	554
Mo	"	8.6	9.7	8.8	9.7	9.2	9.0
Ni	"	40.5	42.5	42.9	42.7	39.7	37.6
Pb	"	131	132	129	127	126	104
Se	"	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Zn	"	861	874	903	1030	830	755

¹Locations listed in [Table 1](#)