

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 07-71

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

SEPTEMBER 2007

NOVEMBER 2007

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312-751-5600

Louis Kollias, P.E., BCEE
Director of Research and Development
312-751-5190

November 30, 2007

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 IEPA Permit No. 2005-SC-3793, September 2007

This letter transmits information and data for the Metropolitan Water Reclamation District of Greater Chicago (District) - Controlled Solids Distribution Program for September 2007, as required by Illinois Environmental Protection Agency Permit No. 2005-SC-3793.

Sludge flow schematic diagrams for solids processed during September 2007 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 two sites in September. The user information report for the baseball fields at Village of South Holland is presented in Table 1, and the analysis of composited biosolids delivered in September to that site is presented in Table 2.

The user information report for Campton Hills Park, Intersection of Campton Hills Drive and Peck Road, St. Charles Park District, St. Charles is presented in Table 3, and the analysis of composited biosolids delivered in September to that site is presented in Table 4.

Very truly yours,

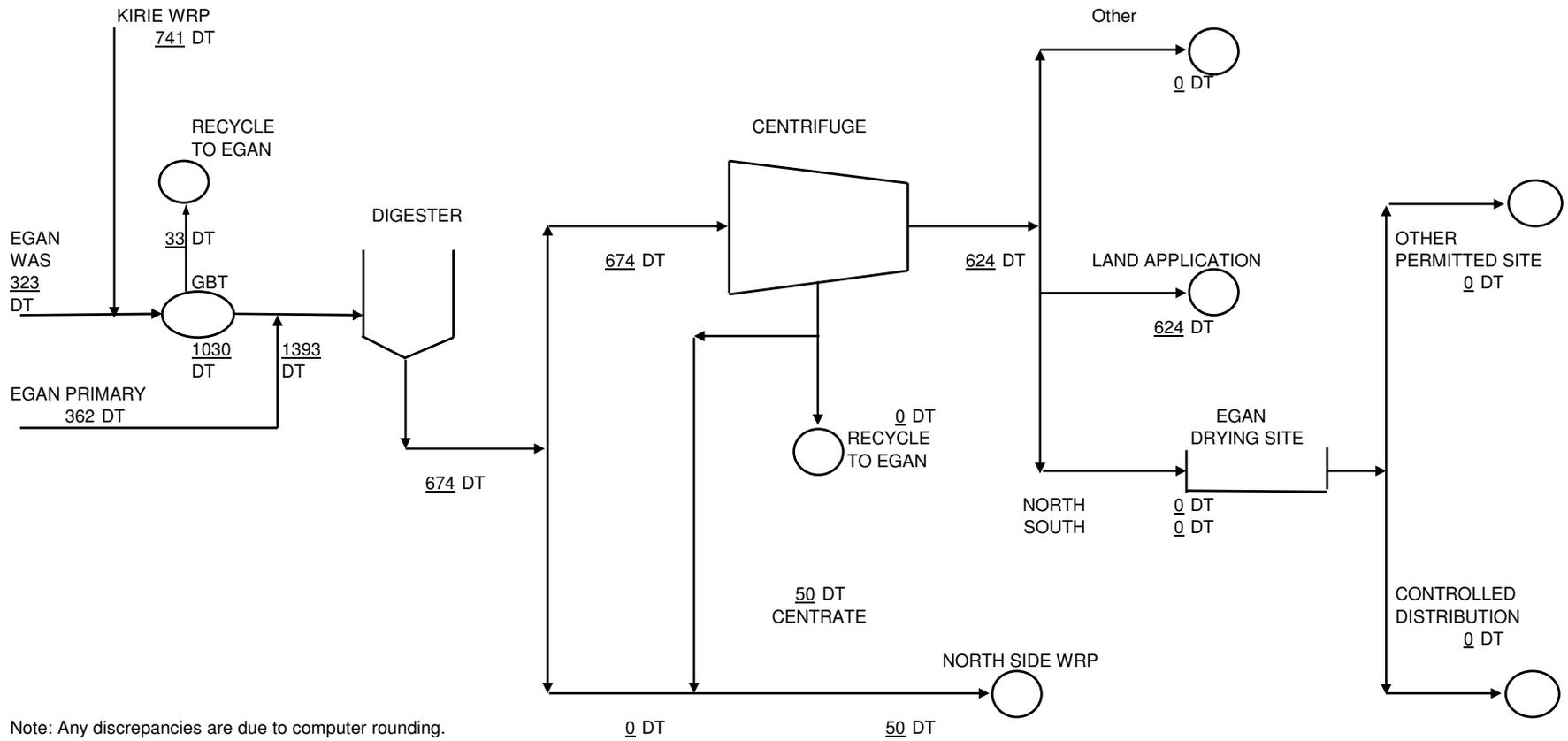
Louis Kollias
Director
Research and Development

LK:KK:spy
Attachments

cc w/att.: Aistars (USEPA)
Sulski (IEPA)
Sobanski
Granato/O'Connor/Cox
cc wo/att: Garelli/Conway
Sharma /Ford
Frost/Collins

J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

September-07



CALUMET WRP SOLIDS DISTRIBUTION - September 2007

Figure 2

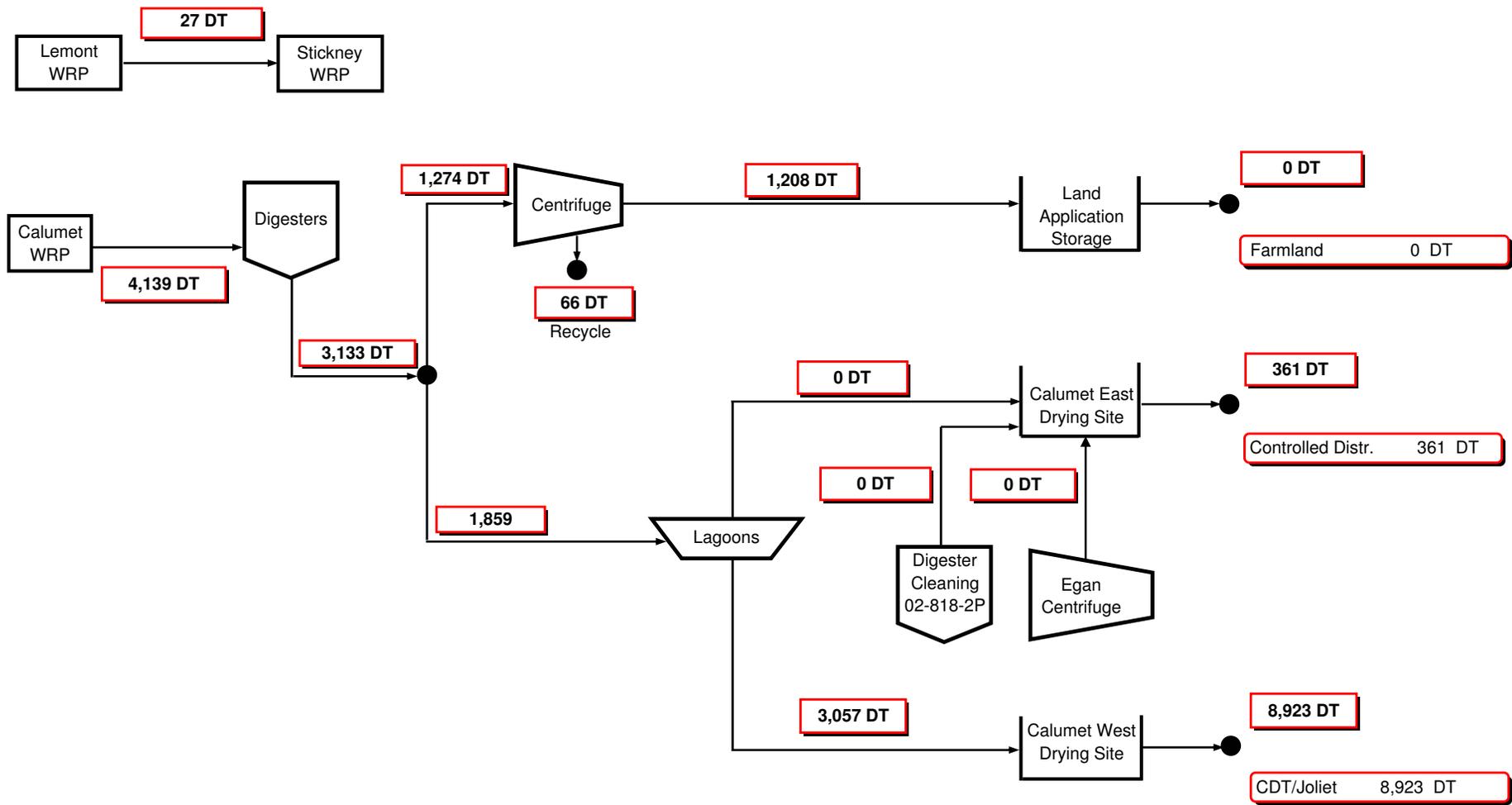


TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User:	Village of South Holland
2. Address of User:	501 E. 170th St. South Holland South Holland, IL
3. Type of Solids and Source:	Agitation dried lagooned anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying areas.
4. Quantity Received (September 2007):	298.02 dry tons
Cumulative Quantity Received in 2007:	298.02 dry tons
5. Date Biosolids Received:	September 4, 5, and 7, 2007
6. Use of Biosolids at Site:	Used as soil amendment for establishing baseball fields turf areas.
7. Size of Application Area:	3 acres
8. Application Rate:	99.34 tons/acre

TABLE 2: ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
 VETERANS PARK BASEBALL FIELDS, VILLAGE OF SOUTH HOLLAND, IL
 FROM THE CALUMET EAST DRYING AREA
 DURING SEPTEMBER 2007

Constituent	Units	Concentration
pH		6.6
Total Solids	%	81.4
Total Volatile Solids	"	32.7
Volatile Acids as Acetic Acid	mg/dry kg	28
Total Kjeldahl-N	"	12,711
NH ₃ -N	"	36
Total P	"	21,900
K	"	4,734
Cd	"	9.6
Cr	"	154
Cu	"	411
Pb	"	133
Hg	"	0.81
Mo	"	12.8
As	"	10.7
Mn	"	845
Ni	"	38.7
Se	"	7.7
Zn	"	1,203

*Results based on one sample.

TABLE 3: CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User:	St. Charles Park District
2. Address of User:	Campton Hills Drive & Peck Road Campton Hills Park, St. Charles, IL
3. Type of Solids and Source:	Agitation dried lagooned anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying areas.
4. Quantity Received (September 2007):	63.38 dry tons
Cumulative Quantity Received: in 2007	147.09 dry tons
5. Date Biosolids Received:	September 5 and 12, 2007
6. Use of Biosolids at Site:	Used as top dressing of turf on soccer fields.
7. Size of Application Area:	6 acres
8. Application Rate:	10.56 dry tons/acre

TABLE: 4 ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
 CAMPTON HILLS PARK SOCCER FIELDS, ST. CHARLES, IL
 FROM THE CALUMET EAST DRYING AREA
 DURING SEPTEMBER 2007

Constituent	Units	Concentration
pH		6.6
Total Solids	%	77.6
Total Volatile Solids	"	32.2
Volatile Acids as Acetic Acid	mg/dry kg	19
Total Kjeldahl-N	"	12,995
NH ₃ -N	"	32
Total P	"	21,839
K	"	4,055
Cd	"	9.4
Cr	"	141
Cu	"	379
Pb	"	132
Hg	"	0.91
Mo	"	11.8
As	"	10.2
Mn	"	800
Ni	"	37.1
Se	"	7.3
Zn	"	1,131

*Results based on two samples.