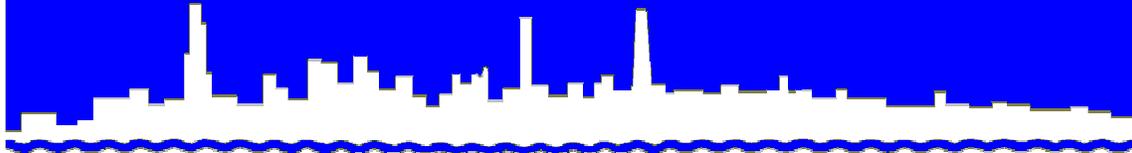


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 11-44

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

May 2011

August 2011

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

This letter transmits information and data for the Metropolitan Water Reclamation District of
Greater Chicago - Controlled Solids Distribution Program for May 2011, as required by Illinois Envi-
ronmental Protection Agency Permit No. 2010-SC-0200.

Sludge flow schematic diagrams for solids processed during May 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 nine sites in May. The user information report for those sites is
presented in Table 1, and the analysis of the composited biosolids delivered to those sites are presented
in Table 2.

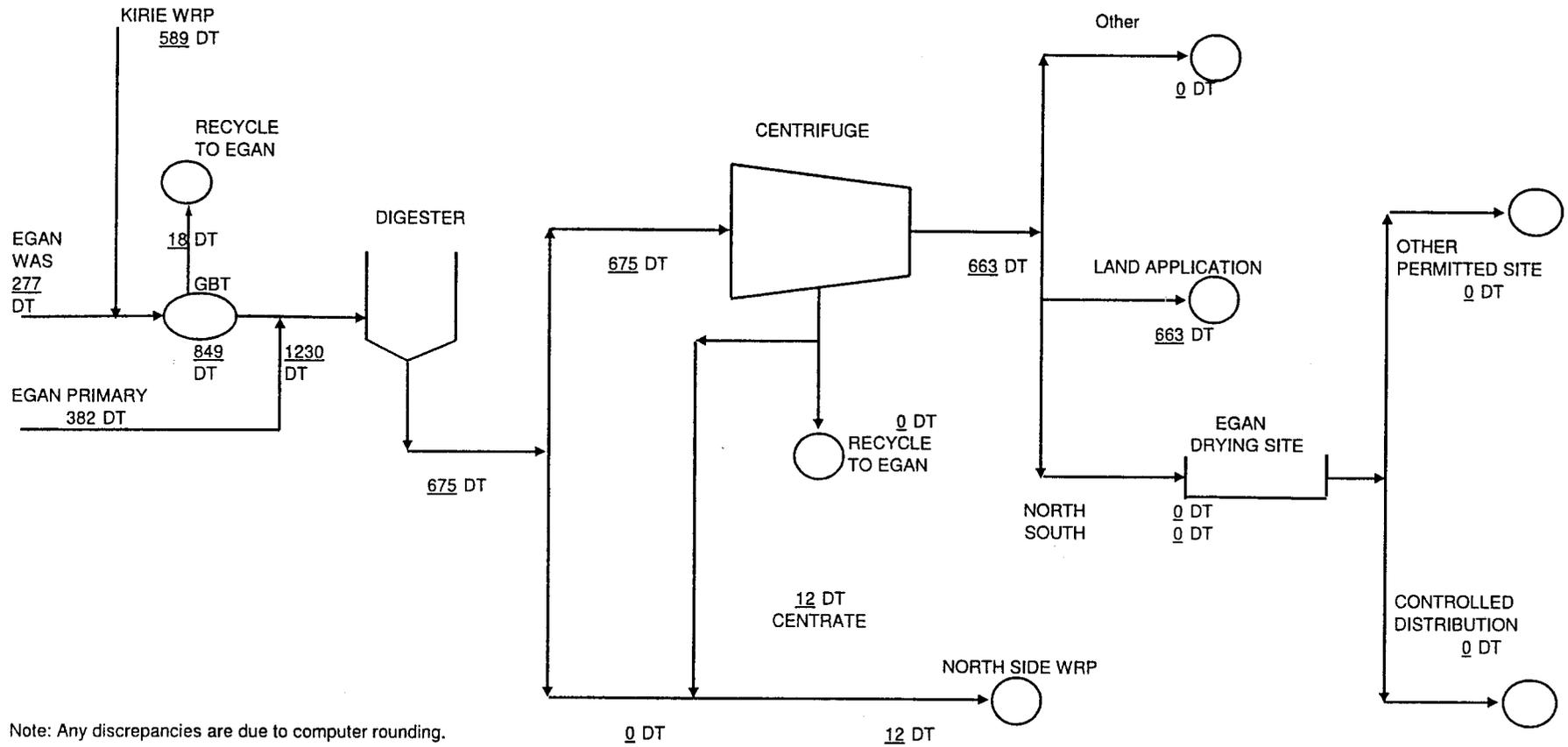
Very truly yours,

Thomas C. Granato, Ph.D.
Acting 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

May-11



Note: Any discrepancies are due to computer rounding.

CALUMET WRP SOLIDS DISTRIBUTION - May 2011

Figure 2

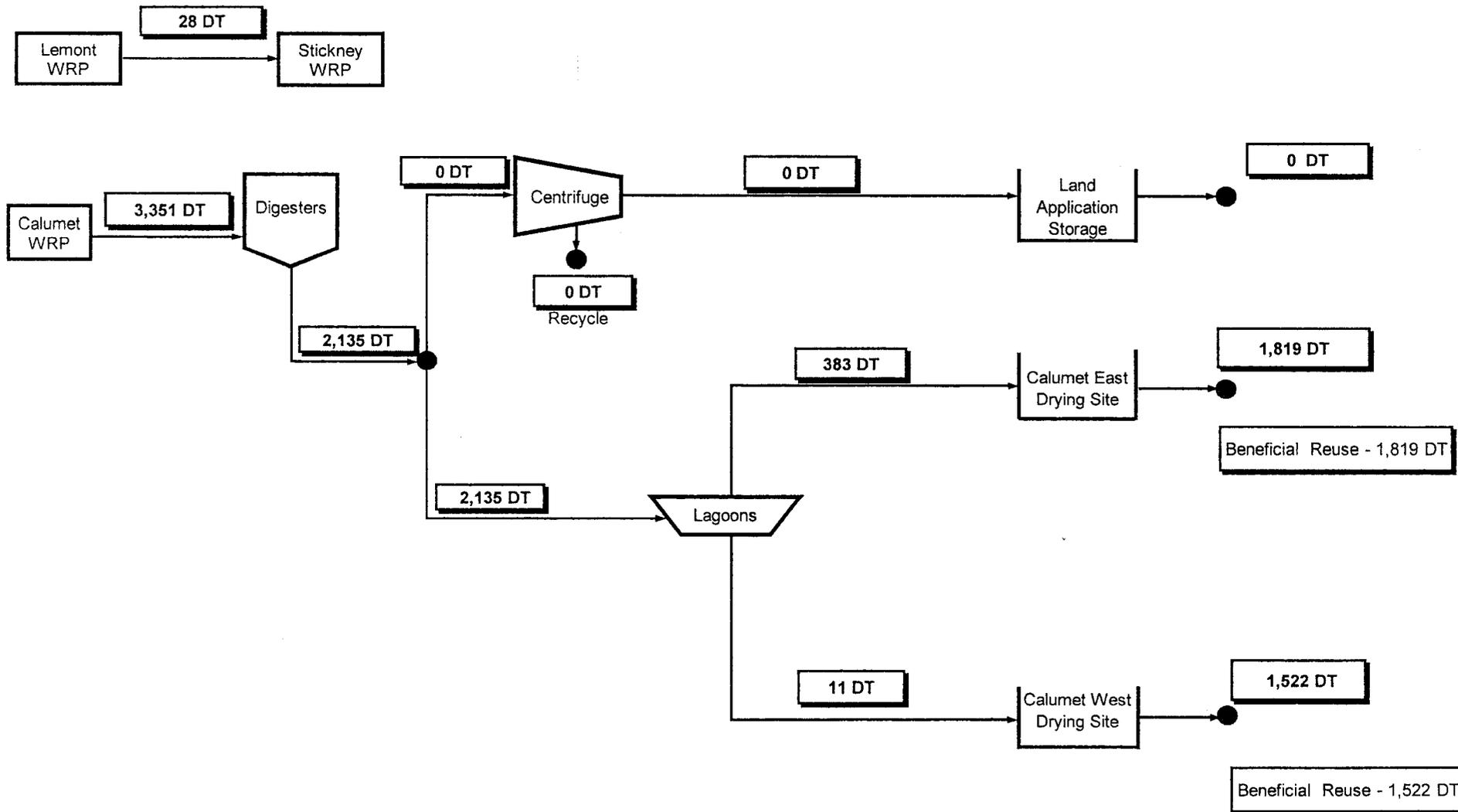


TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION REPORT
FOR AGITATION-DRIED, ANAEROBICALLY-DIGESTED SOLIDS

Location No.	Name and Address of User	Source	Dates	Quantity (dry tons)		Biosolids Use	Application	
				2011 May	2011 Cumulative		Area (acres)	Rate (tons/acre)
1	Chicago State University 9601 Cottage Grove Avenue Chicago, IL 60628	Stickney WRP	12	61.2	61.2	Soil amendment for biofuel research	1	61.2
2	St. Xavier University 3700 West 103 rd Street Chicago, IL 60655	Stickney WRP	12	14.2	14.2	Topdressing as fertilizer for turf growth	1	14.2
3	Tinley Park Park District Community Park 8125 West 171 st Street Tinley Park., IL 60477	Stickney WRP	12	15.4	15.4	Topdressing as fertilizer for turf growth	1	15.4
4	Hinsdale High School 5500 South Grant Street Hinsdale, IL 60521	Stickney WRP	13	141.1	141.1	Incorporation with top soil for turf growth	2	70.6
5	Richard Vegas 7805 East Huston Street Braceville, IL 60407	Stickney WRP	18, 19, 24	80.7	80.7	Incorporation with top soil for turf growth on geothermal field	1.5	53.8
6	Joliet Township High School 201 East Johnson Street Joliet, IL 60432	Stickney WRP	18	28.0	28.0	Topdressing as fertilizer for turf growth	1	28.0

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 May	2011 Cumulative		Area (acres)	Rate (tons/acre)
7	Cinder Ridge Golf Course 24801 Lakepoint Drive Wilmington, IL 60481	Stickney WRP	19	70.1	70.1	Topdressing as fertilizer for turf growth	2.5	28.0
8	Frankfort Park District Main Park 140 Oak Street Frankfort, IL 60423	Stickney WRP	20	73.5	73.5	Topdressing as fertilizer for turf growth	3	24.5
9	Chicago Park District Montrose Beach Park 4400 North Lake Shore Drive Chicago, IL 60613	Stickney WRP	24	137.7	137.7	Incorporation with top soil for turf growth	2	68.9

TABLE 2: ANALYSIS OF DIGESTED BIOSOLIDS APPLIED TO LAND
FROM THE STICKNEY WATER RECLAMATION PLANT DRYING
AREA DURING MAY 2011

		User Location No. ¹			
		1, 2, 3	4	5, 6, 7, 8	5, 9
<u>Constituent</u>	<u>Unit</u>				
pH		6.8	6.1	6.1	6.2
Total Solids	%	62.3	66.3	61.3	59.9
Total Volatile Solids	"	38.0	39.2	38.1	39.2
Volatile Acids as Acetic Acid	mg/kg	217	149	253	222
Total Kjeldahl-N	"	21,887	21,470	20,327	25,242
NH ₃ -N	"	1,457	1,097	719	1,480
Total P	"	22,733	22,093	23,583	23,018
As	"	<10	<10	<10	<10
Cd	"	3.5	3.3	3.5	3.2
Cr	"	161	157	167	158
Cu	"	446	446	455	462
Hg	"	0.95	0.88	1.1	1.2
K	"	2,995	2,866	3,780	2,085
Mn	"	584	580	597	593
Mo	"	8	8	9	9
Ni	"	39.4	39.5	40.5	41.5
Pb	"	125	130	130	133
Se	"	<8	<8	<8	<8
Zn	"	835	823	852	857

¹Locations listed in Table 1.