

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***RESEARCH AND DEVELOPMENT
DEPARTMENT***

REPORT NO. 08-64

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

JUNE 2008

DECEMBER 2008

Metropolitan Water Reclamation District of Greater Chicago

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

Louis Kollias, P.E., BCEE
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312-751-5190

December 15, 2008

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, June 2008

This letter transmits information and data for the Metropolitan Water Reclamation District of Greater Chicago - Controlled Solids Distribution Program for June 2008, as required by Illinois Environmental Protection Agency Permit No. 2005-SC-3793.

Sludge flow schematic diagrams for solids processed during June 2008 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 five sites in June. The user information report for Chicago Highlands Club, 31st Street and I-294, Westchester, Illinois, is presented in Table 1, and the analysis of composited biosolids delivered to that site is presented in Table 2.

The user information report for Reavis High School, 6034 West 77th Street, Burbank, Illinois, is presented in Table 3, and the analysis of composited biosolids delivered to that site is presented in Table 4.

The user information report for Bartlett Park District, 696 West Stearns Road, Bartlett, Illinois, is presented in Table 5, and the analysis of composited biosolids delivered to that site is presented in Table 6.

The user information report for Evergreen Park High School, 9418 South Kedzie Avenue, Evergreen Park, Illinois, is presented in Table 7, and the analysis of composited biosolids delivered to that site is presented in Table 8.

Mr. S. Alan Keller

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December 15, 2008

Subject: Metropolitan Water Reclamation District of Greater Chicago – Controlled
Solids Distribution Program IEPA Permit No. 2005-SC-3793, June 2008

The user information report for White Pines Golf Club, 500 West Jefferson Street, Bensenville, Illinois, is presented in Table 9, and the analysis of composited biosolids delivered to that site is presented in Table 10.

Very truly yours,

Louis Kollias
Director
Research and Development

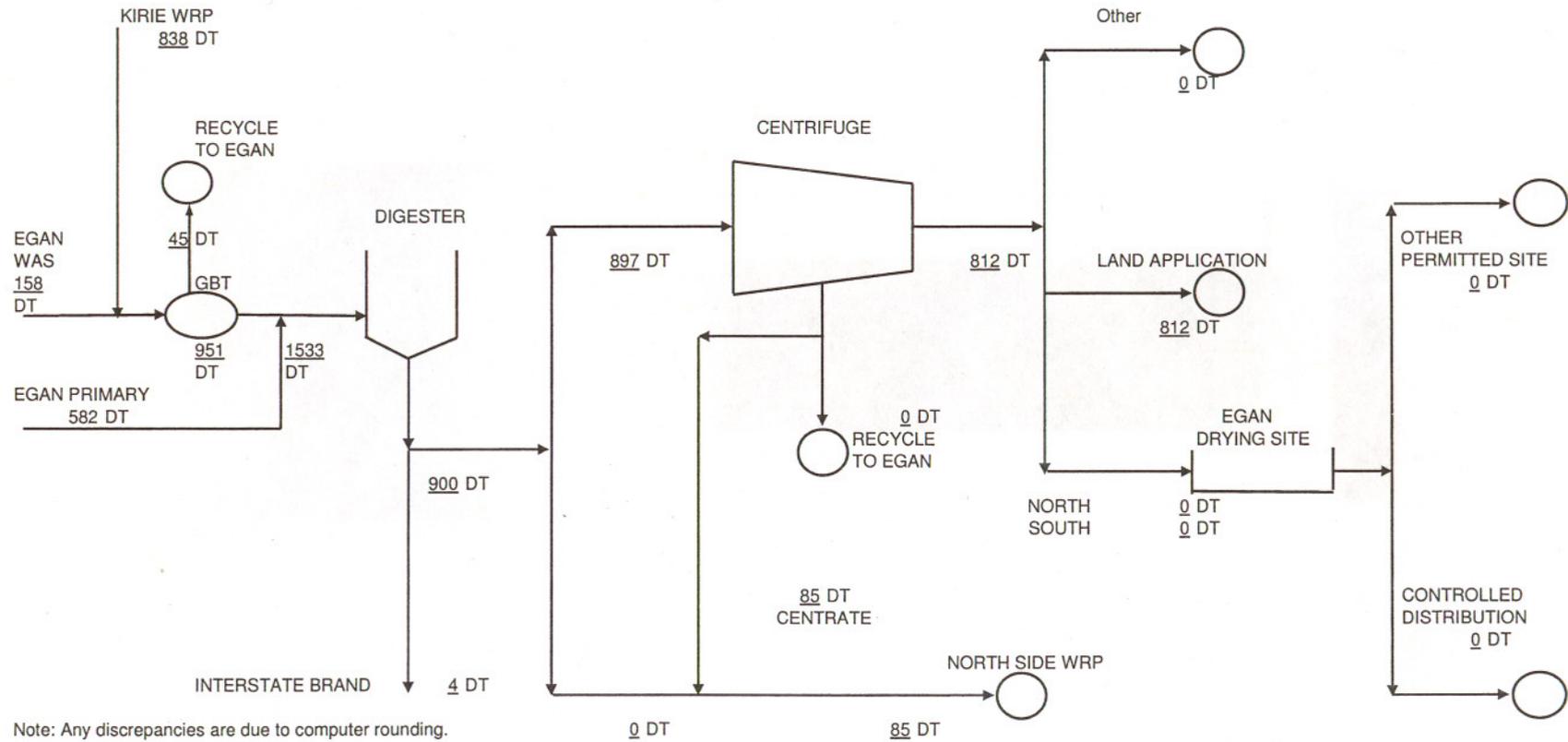
LK:KK:kq

Attachments

cc w/att.: Aistars (USEPA)
Sulski (IEPA)
Sobanski
Granato/O'Connor/Cox

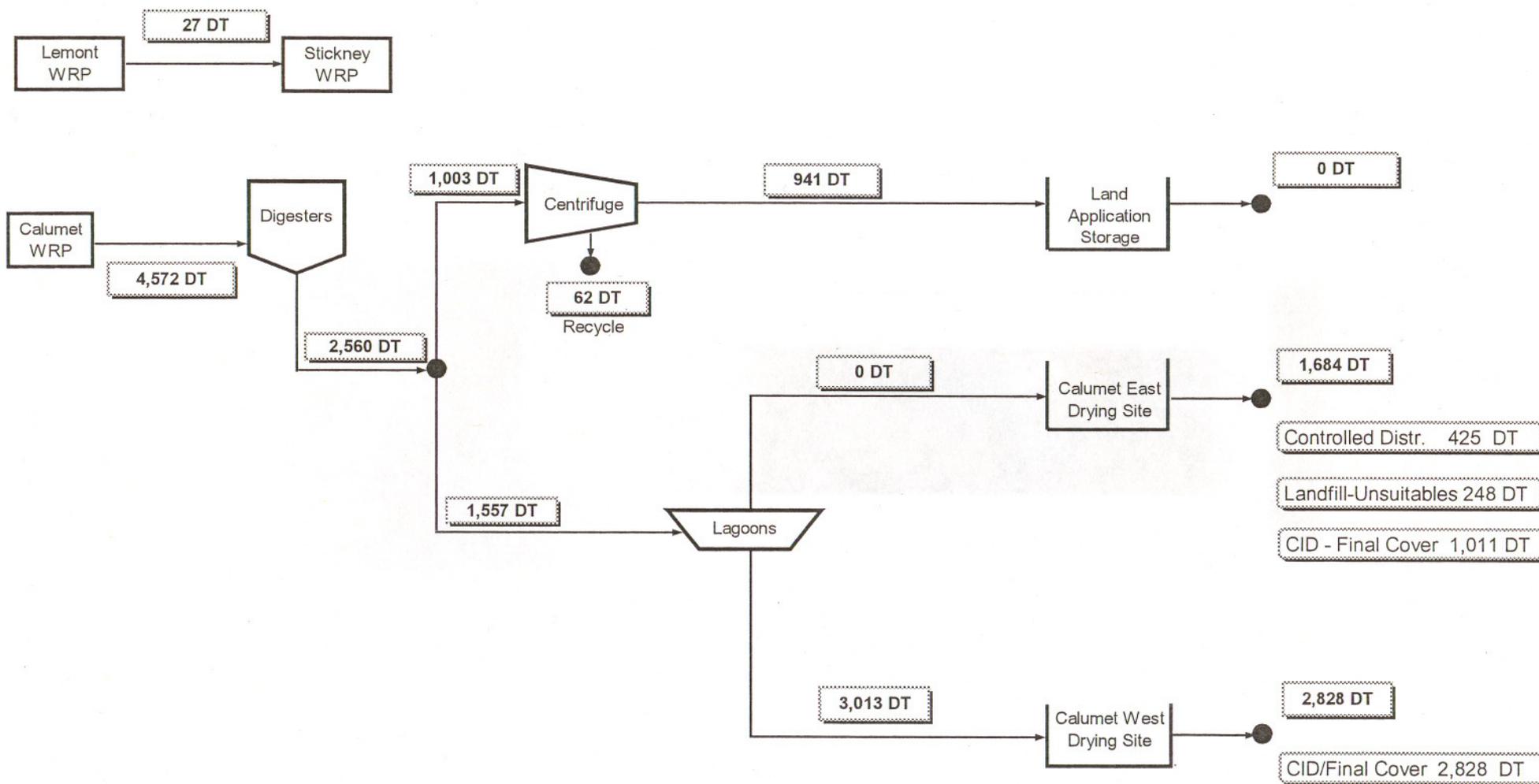
J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

June-08

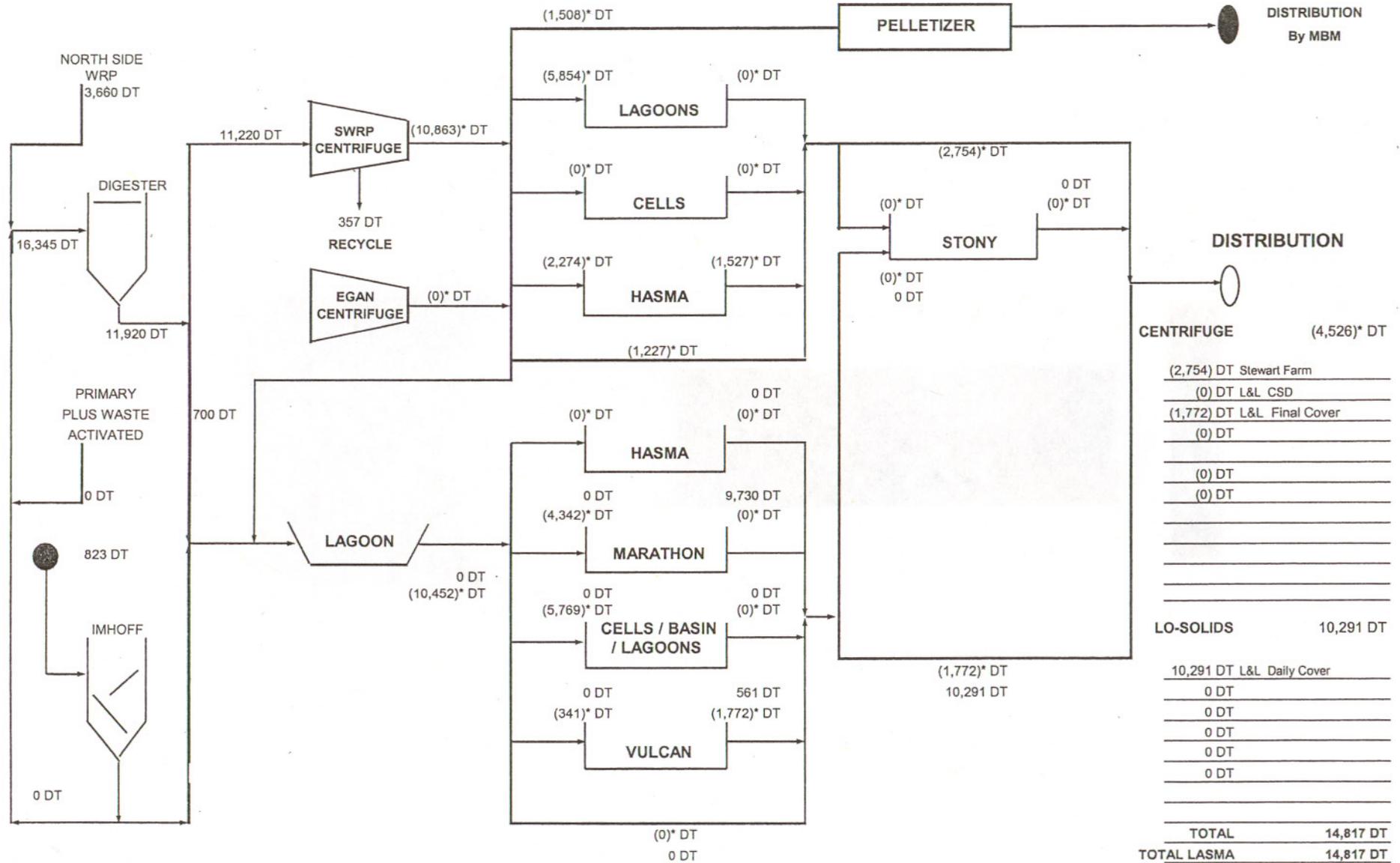


CALUMET WRP SOLIDS DISTRIBUTION - June 2008

Figure 2



STICKNEY WATER RECLAMATION PLANT SOLIDS DISTRIBUTION FOR JUNE 2008
Figure 3



(CENTRIFUGE CAKE)*

jg 7/28/08

TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User:	Chicago Highlands Club
2. Address of User:	31 st St. and I-294 Westchester, IL 60154
3. Type of Solids and Source:	Agitation dried anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying area.
4. Quantity Received (June 2008) :	271.73 dry tons
Cumulative Quantity Received in 2008 :	271.73 dry tons
5. Date Biosolids Received:	June 18 and 30, 2008
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for turf growth on fairways at the Chicago Highlands Club golf course, Westchester.
7. Size of Application Area:	7 acres
8. Application Rate:	38.82 dry tons/acre

TABLE 2: ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
 THE
 CHICAGO HIGHLANDS CLUB GOLF COURSE AT 31ST ST., WESTCHESTER,
 IL

FROM THE CALUMET EAST SOLIDS DRYING AREA
 DURING JUNE 2008

Constituent	Units	Concentration
pH		6.8
Total Solids	%	71.1
Total Volatile Solids	"	28.8
Volatile Acids as Acetic Acid	mg/dry kg	41
Total Kjeldahl-N	"	14,927
NH ₃ -N	"	33
Total P	"	19,708
K	"	7,028
Cd	"	4.6
Cr	"	106
Cu	"	350
Pb	"	105
Hg	"	1.07
Mo	"	13.0
As	"	10.0
Mn	"	981
Ni	"	39.2
Se	"	1.2
Zn	"	766

*Results based on two samples.

TABLE 3: CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User:	Reavis High School
2. Address of User:	6034 W. 77 th St. Burbank, IL 60459
3. Type of Solids and Source:	Agitation dried anaerobically digested biosolids from the Calumet WRP. Drying was done at the Calumet East solids drying area.
4. Quantity Received (June 2008):	81.83 dry tons
Cumulative Quantity Received in 2008:	81.83 dry tons
5. Date Biosolids Received:	June 18, 2008
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing turf growth on soccer fields.
7. Size of Application Area:	8 acres
8. Application Rate:	10.23 dry tons/acre

TABLE 4: ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
THE
REAVIS HIGH SCHOOL SOCCER FIELDS, BURBANK, IL

FROM THE CALUMET EAST DRYING AREA
DURING JUNE 2008

Constituent	Units	Concentration
pH		6.8
Total Solids	%	66.7
Total Volatile Solids	"	25.1
Volatile Acids as Acetic Acid	mg/dry kg	41
Total Kjeldahl-N	"	14,927
NH ₃ -N	"	33
Total P	"	19,708
K	"	6,689
Cd	"	4.0
Cr	"	91
Cu	"	312
Pb	"	90
Hg	"	0.92
Mo	"	11
As	"	9.7
Mn	"	848
Ni	"	35.8
Se	"	2.1
Zn	"	662

*Results based on one sample.

TABLE 5: CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User:	Bartlett Park District
2. Address of User:	696 W. Stearns Rd. Bartlett, IL 60103
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 (June 2008):	13.55 dry tons
Cumulative Quantity Received in 2008:	13.55 dry tons
5. Date Biosolids Received:	June 19, 2007
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source to improve turf growth on athletic fields.
7. Size of Application Area:	1.6 acres
8. Application Rate:	8.5 dry tons/acre

TABLE 6: ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
 KOEHLER FIELDS AT WEST BARTLETT RD. AND RT. 25,
 BARTLETT PARK DISTRICT, BARTLETT, IL
 FROM THE CALUMET EAST SOLIDS DRYING AREA
 DURING JUNE 2008

Constituent	Units	Concentration
pH		6.8
Total Solids	%	66.7
Total Volatile Solids	"	25.1
Volatile Acids as Acetic Acid	mg/dry kg	41
Total Kjeldahl-N	"	14,927
NH ₃ -N	"	33
Total P	"	19,708
K	"	6,689
Cd	"	4.0
Cr	"	91
Cu	"	312
Pb	"	90
Hg	"	0.92
Mo	"	11.0
As	"	9.7
Mn	"	848
Ni	"	35.8
Se	"	2.1
Zn	"	662

*Results based on one sample.

TABLE 7: CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User: Evergreen Park High School
 2. Address of User: 9418 S. Kedzie Ave.
Evergreen Park, IL 60805
 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 (June 2008): 28.05 dry tons

Cumulative Quantity Received in 2008: 28.05 dry tons
 5. Date Biosolids Received: June 19, 2008
 6. Use of Biosolids at Site: Used as soil conditioner and nutrient source for enhancing turf growth on football fields.
 7. Size of Application Area: 2.5 acres
 8. Application Rate: 11.22 dry tons/acre
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TABLE 8: ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT THE
 EVERGREEN PARK HIGH SCHOOL FOOTBALL FIELDS
 AT 89th ST. AND KEDZIE AVE., EVERGREEN PARK, IL
 FROM THE CALUMET EAST SOLIDS DRYING AREA
 DURING JUNE 2008

Constituent	Units	Concentration
pH		6.8
Total Solids	%	66.7
Total Volatile Solids	"	25.1
Volatile Acids as Acetic Acid	mg/dry kg	41
Total Kjeldahl-N	"	14,927
NH ₃ -N	"	33
Total P	"	19,708
K	"	6,689
Cd	"	4.0
Cr	"	91
Cu	"	312
Pb	"	11
Hg	"	0.92
Mo	"	6.69
As	"	21.36
Mn	"	848
Ni	"	35.8
Se	"	2.1
Zn	"	662

*Results based on one sample.

TABLE 9: CONTROLLED SOLIDS DISTRIBUTION PROGRAM
USER INFORMATION REPORT

1. Name of User:	White Pines Golf Club
2. Address of User:	500 W. Jefferson St. Bensenville, IL 60106
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 (June 2008):	29.32 dry tons
Cumulative Quantity Received in 2008:	54.96 dry tons
5. Date Biosolids Received:	June 19, 2008
6. Use of Biosolids at Site:	Used as fertilizer top dressing to improve turf growth at White Pines Golf Club, Bensenville.
7. Size of Application Area:	4 acres
8. Application Rate:	7.33 dry tons/acre

TABLE 10: ANALYSIS* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT
THE
WHITE PINES GOLF CLUB, 500 W. JEFFERSON ST., BENSENVILLE, IL

FROM THE CALUMET EAST SOLIDS DRYING AREA
DURING JUNE 2008

Constituent	Units	Concentration
pH		6.8
Total Solids	%	66.7
Total Volatile Solids	"	25.1
Volatile Acids as Acetic Acid	mg/dry kg	41
Total Kjeldahl-N	"	14,927
NH ₃ -N	"	33
Total P	"	19,708
K	"	6,689
Cd	"	4.0
Cr	"	91
Cu	"	312
Pb	"	90
Hg	"	0.92
Mo	"	11.0
As	"	9.7
Mn	"	848
Ni	"	35.8
Se	"	2.1
Zn	"	662

*Results based on one sample.

