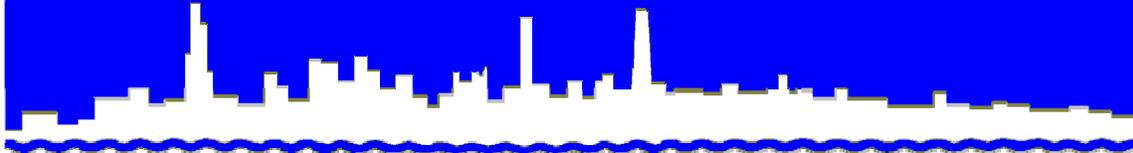


*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***RESEARCH AND DEVELOPMENT  
DEPARTMENT***

*REPORT NO. 08-13*

*MONTHLY CONTROLLED SOLIDS*

*DISTRIBUTION REPORT*

*OCTOBER 2007*

*FEBRUARY 2008*

**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

February 29, 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, October 2007

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

Sludge flow schematic diagrams for solids processed during October 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 eight sites in October. The user information report for Arlington Lakes Golf Club, 1211 S. New Wilke Road, Arlington Heights, Illinois, is presented in Table 1, and the analysis of composited biosolids delivered in October to that site is presented in Table 2.

The user information report for Joliet Country Club, 1009 Spencer Road, Joliet, Illinois, is presented in Table 3, and the analysis of composited biosolids delivered in October to that site is presented in Table 4.

The user information report for Veterans Memorial Park located at the corner of Richmond Street and Linden Avenue, Westmont, Illinois, is presented in Table 5, and the analysis of composited biosolids delivered in October to that site is presented in Table 6.

Subject: Metropolitan Water Reclamation District of Greater Chicago – Controlled Solids Distribution Program IEPA Permit No. 2005-SC-3793, October 2007

The user information report for Mertz Memorial Park located at the corner of Wexford Drive and Rumsey Place, Westmont, Illinois, is presented in Table 7, and the analysis of composited biosolids delivered in October to that site is presented in Table 8.

The user information report for Birch Park, 2952 Birch Street, Franklin Park, Illinois, is presented in Table 9, and the analysis of composited biosolids delivered in October to that site is presented in Table 10.

The user information report for Chicago Heights Park District East Golf Course, 315 Glenwood Road, Chicago Heights, Illinois, is presented in Table 11, and the analysis of composited biosolids delivered in October to that site is presented in Table 12.

The user information report for Cinder Ridge Golf Course, 24801 Lakepoint Drive, Wilmington, Illinois, is presented in Table 13, and the analysis of composited biosolids delivered in October to that site is presented in Table 14.

The user information report for Plainfield Central High School, 24120 W. Fort Beggs Drive, Plainfield, Illinois, is presented in Table 15, and the analysis of composited biosolids delivered in October to that site is presented in Table 16.

The user information report for Land of Lincoln Tree Nursery, 2107 River Road, Oregon, Illinois, is presented in Table 17, and the analysis of composited biosolids delivered in October to that site is presented in Table 18.

Very truly yours,

Louis Kollias  
Director  
Research and Development

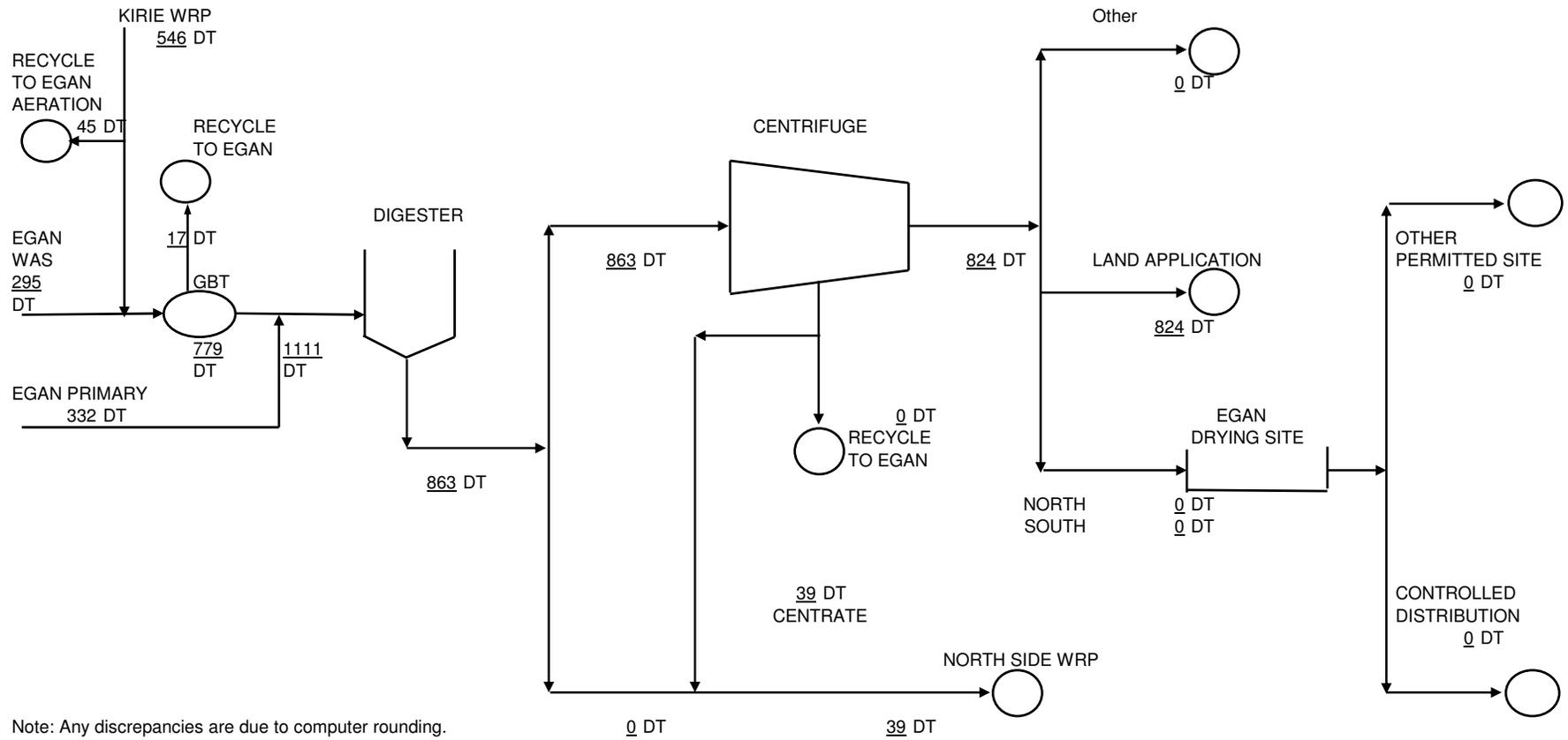
LK:TCG:AC:KK:spy

Attachments

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

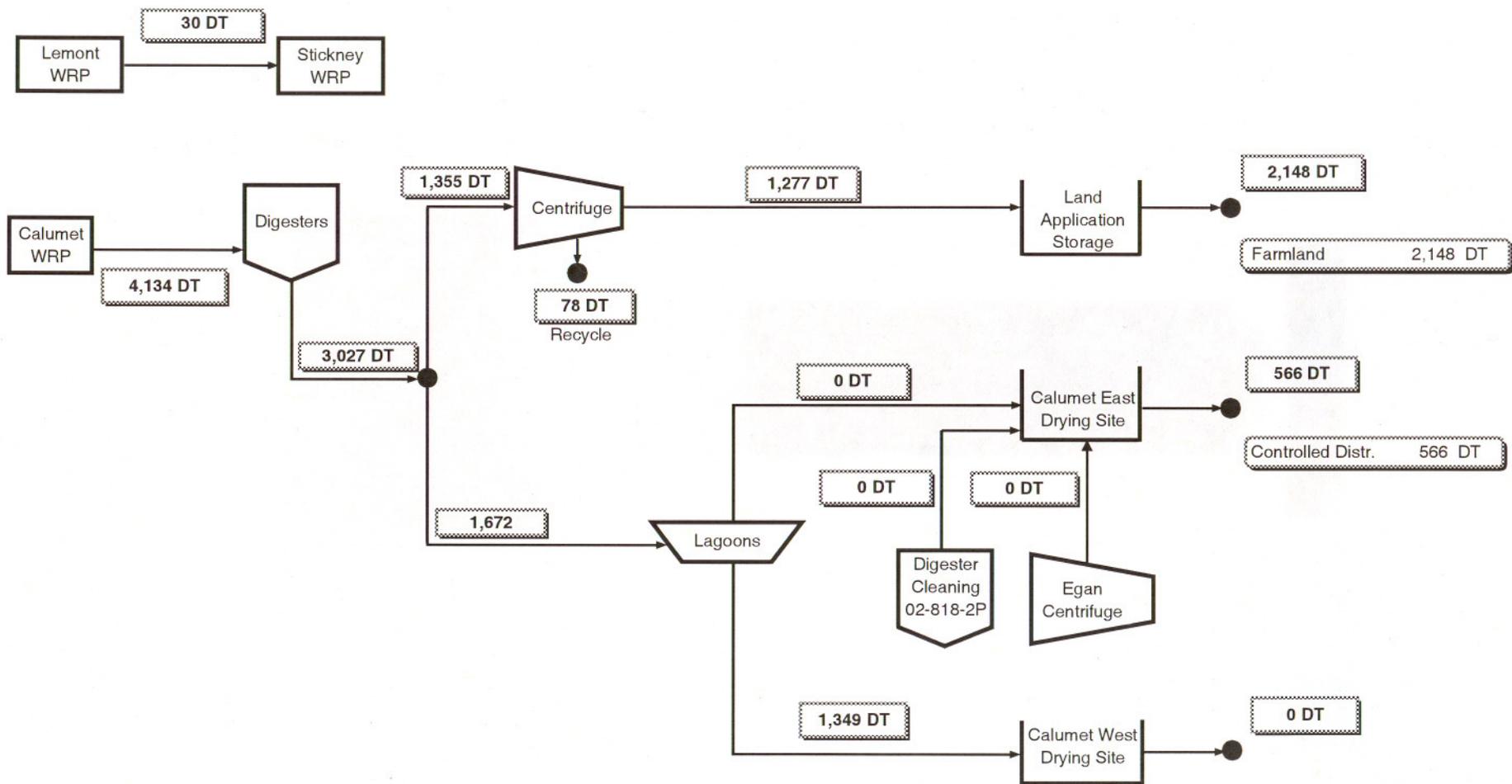
# J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

October-07

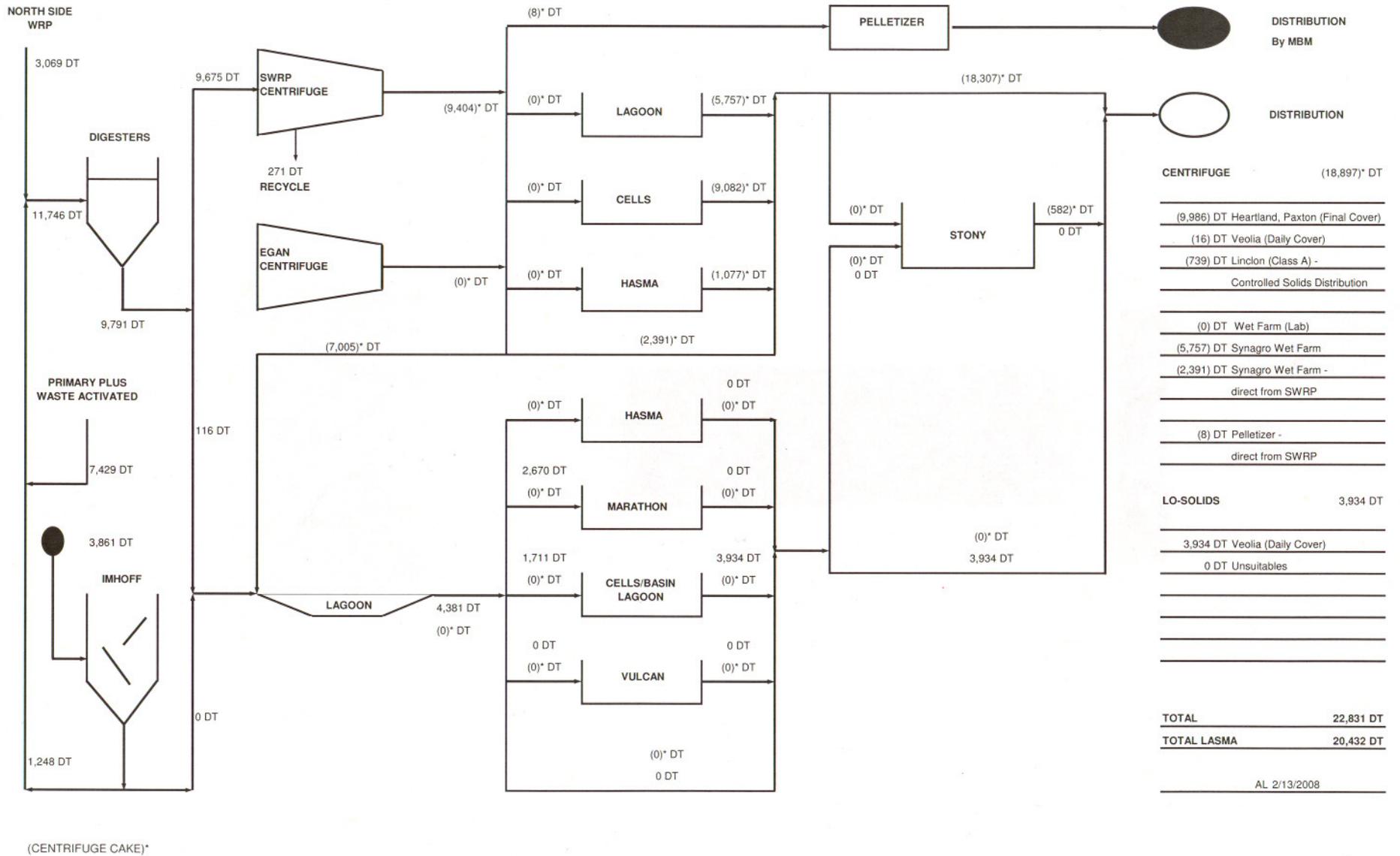


# CALUMET WRP SOLIDS DISTRIBUTION - October 2007

Figure 2



# STICKNEY WATER RECLAMATION PLANT SOLIDS DISTRIBUTION FOR OCTOBER 2007



(CENTRIFUGE CAKE)\*

TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User: Arlington Heights Park District
  2. Address of User: 1211 S. New Wilke Rd.  
Arlington Heights, IL 60005
  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 (October 2007): 32.26 dry tons  
Cumulative Quantity Received in 2007: 32.26 dry tons
  5. Date Biosolids Received: October 9, 2007
  6. Use of Biosolids at Site: Used as top dressing of turf on fairways at Arlington Lakes Golf Club, Arlington Heights.
  7. Size of Application Area: 4 acres
  8. Application Rate: 8.07 tons/acre
-

TABLE 2: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
 ARLINGTON LAKES GOLF CLUB, ARLINGTON HEIGHTS, IL  
 FROM THE CALUMET EAST DRYING AREA  
 DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.8
Total Solids	%	74.6
Total Volatile Solids	"	29.9
Volatile Acids as Acetic Acid	mg/dry kg	11
Total Kjeldahl-N	"	11,312
NH <sub>3</sub> -N	"	49
Total P	"	19,871
K	"	3,827
Cd	"	10.1
Cr	"	140
Cu	"	395
Pb	"	133
Hg	"	1.07
Mo	"	12.6
As	"	10.9
Mn	"	800
Ni	"	37.6
Se	"	8.3
Zn	"	1,163

\*Results based on one sample.

TABLE 3: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Joliet Country Club
2. Address of User:	1009 Spencer Rd. Joliet, IL 60433
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 (October 2007):	59.21 dry tons
Cumulative Quantity Received in 2007:	59.21 dry tons
5. Date Biosolids Received:	October 9, and 16, 2007
6. Use of Biosolids at Site:	Used as top dressing of turf on golf course fairways.
7. Size of Application Area:	2 acres
8. Application Rate:	29.6 dry tons/acre

---

TABLE 4: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
 JOLIET COUNTRY CLUB, JOLIET, IL  
 FROM THE CALUMET EAST DRYING AREA  
 DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.7
Total Solids	%	70.9
Total Volatile Solids	"	30.4
Volatile Acids as Acetic Acid	mg/dry kg	15
Total Kjeldahl-N	"	12,997
NH <sub>3</sub> -N	"	45
Total P	"	21,188
K	"	4,116
Cd	"	9.3
Cr	"	140
Cu	"	358
Pb	"	124
Hg	"	1.12
Mo	"	11.1
As	"	10.4
Mn	"	896
Ni	"	35.0
Se	"	6.0
Zn	"	1,055

\*Results based on two samples.

TABLE 5: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Westmont Park District
2. Address of User:	350 W. 59 <sup>th</sup> St. Westmont, IL 60554
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 (October 2007):	27.52 dry tons
Cumulative Quantity Received in 2007:	27.52 dry tons
5. Date Biosolids Received:	October 29, 2007
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing growth on turf areas at Veterans Memorial Park, corner of Richmond St. and Linden Ave., Westmont.
7. Size of Application Area:	3 acres
8. Application Rate:	9.17 dry tons/acre

---

TABLE 6: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
 VETERANS MEMORIAL PARK, WESTMONT, IL  
 FROM THE CALUMET EAST DRYING AREA  
 DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.7
Total Solids	%	65.6
Total Volatile Solids	"	26.7
Volatile Acids as Acetic Acid	mg/dry kg	20
Total Kjeldahl-N	"	10,744
NH <sub>3</sub> -N	"	30
Total P	"	18,229
K	"	4,010
Cd	"	8.6
Cr	"	133
Cu	"	306
Pb	"	113
Hg	"	1.19
Mo	"	9.9
As	"	9.3
Mn	"	771
Ni	"	33.5
Se	"	6.2
Zn	"	928

\*Results based on one sample.

TABLE 7: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Westmont Park District
2. Address of User:	350 W. 59 <sup>th</sup> St. Westmont, IL 60554
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 (October 2007):	14.11 dry tons
Cumulative Quantity Received in 2007:	14.11 dry tons
5. Date Biosolids Received:	October 30, 2007
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing growth on turf areas at Mertz Memorial Park, corner of Wexford Dr. and Rumsey Pl., Westmont.
7. Size of Application Area:	2 acres
8. Application Rate:	7.06 dry tons/acre

---

TABLE 8: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
MERTZ MEMORIAL PARK, WESTMONT, IL  
FROM THE CALUMET EAST DRYING AREA  
DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.7
Total Solids	%	65.6
Total Volatile Solids	"	26.7
Volatile Acids as Acetic Acid	mg/dry kg	20
Total Kjeldahl-N	"	10,744
NH <sub>3</sub> -N	"	30
Total P	"	18,229
K	"	4,010
Cd	"	8.6
Cr	"	133
Cu	"	306
Pb	"	113
Hg	"	1.19
Mo	"	9.9
As	"	9.3
Mn	"	771
Ni	"	33.5
Se	"	6.2
Zn	"	928

\*Results based on one sample.

TABLE 9: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Franklin Park District
2. Address of User:	9560 Franklin Ave. Franklin Park , IL 60131
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 (October 2007):	119.44 dry tons
Cumulative Quantity Received in 2007:	119.44 dry tons
5. Date Biosolids Received:	October 30 and 31, 2007
6. Use of Biosolids at Site:	Used as soil amendment to renovate turf in the park areas at Birch Park, 2952 Birch St., Franklin Park.
7. Size of Application Area:	2 acres
8. Application Rate:	59.72 dry tons/acre

---

TABLE 10: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
 BIRCH PARK, FRANKLIN PARK, IL  
 FROM THE CALUMET EAST DRYING AREA  
 DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.7
Total Solids	%	72.0
Total Volatile Solids	"	26.6
Volatile Acids as Acetic Acid	mg/dry kg	11
Total Kjeldahl-N	"	9,702
NH <sub>3</sub> -N	"	46
Total P	"	17,253
K	"	3,518
Cd	"	9.4
Cr	"	147
Cu	"	309
Pb	"	119
Hg	"	0.82
Mo	"	10
As	"	8.8
Mn	"	855
Ni	"	34.3
Se	"	5.9
Zn	"	947

\*Results based on one sample.

TABLE 11: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Chicago Heights Park District
2. Address of User:	1400 Chicago Rd. Chicago Heights, IL 60411
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 (October 2007):	14.28 dry tons
Cumulative Quantity Received in 2007:	14.28 dry tons
5. Date Biosolids Received:	October 30, 2007
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing turf growth on East Golf Course at 315 Glenwood Rd., Chicago Heights.
7. Size of Application Area:	2 acres
8. Application Rate:	7.14 dry tons/acre

---

TABLE 12: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
 CHICAGO HEIGHTS PARK DISTRICT EAST GOLF COURSE,  
 CHICAGO HEIGHTS, IL FROM THE CALUMET EAST DRYING AREA  
 DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.7
Total Solids	%	72.0
Total Volatile Solids	"	26.6
Volatile Acids as Acetic Acid	mg/dry kg	11
Total Kjeldahl-N	"	9,702
NH <sub>3</sub> -N	"	46
Total P	"	17,253
K	"	3,518
Cd	"	9.4
Cr	"	147
Cu	"	309
Pb	"	119
Hg	"	0.82
Mo	"	10.4
As	"	8.8
Mn	"	855
Ni	"	34.3
Se	"	5.9
Zn	"	947

\*Results based on one sample.

TABLE 13: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Cinder Ridge Golf Course
2. Address of User:	24801 Lakepoint Dr. Wilmington, IL 60481
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 (October 2007):	212.22 dry tons
Cumulative Quantity Received in 2007:	212.22 dry tons
5. Date Biosolids Received:	October 30, 2007
6. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing growth of turf on golf course.
7. Size of Application Area:	18 acres
8. Application Rate:	11.79 dry tons/acre

---

TABLE 14: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
CINDER RIDGE GOLF COURSE, WILMINGTON, IL  
FROM THE CALUMET EAST DRYING AREA  
DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.8
Total Solids	%	66.3
Total Volatile Solids	"	23.8
Volatile Acids as Acetic Acid	mg/dry kg	21
Total Kjeldahl-N	"	10,237
NH <sub>3</sub> -N	"	28
Total P	"	18,916
K	"	3,296
Cd	"	9.4
Cr	"	130
Cu	"	317
Pb	"	123
Hg	"	0.98
Mo	"	10
As	"	8.5
Mn	"	744
Ni	"	34.9
Se	"	5.6
Zn	"	978

\*Results based on one sample.

TABLE 15: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Plainfield Community Consolidated School District 202
2. Address of User:	15732 Howard St. Plainfield, IL 60544
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 (October 2007):	86.7 dry tons
Cumulative Quantity Received in 2007:	86.7 dry tons
Date Biosolids Received:	October 30, 2007
5. Use of Biosolids at Site:	Used as soil conditioner and nutrient source for enhancing turf growth on athletic fields at Plainfield Central High School, 24120 W. Fort Beggs Dr., Plainfield.
6. Size of Application Area:	13 acres
7. Application Rate:	6.67 dry tons/acre

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TABLE 16: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
PLAINFIELD CENTRAL HIGH SCHOOL, 24120 W. FORT BEGGS, PLAINFIELD,  
IL  
FROM THE CALUMET EAST DRYING AREA  
DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.9
Total Solids	%	69.9
Total Volatile Solids	"	21.5
Volatile Acids as Acetic Acid	mg/dry kg	11
Total Kjeldahl-N	"	9,161
NH <sub>3</sub> -N	"	28
Total P	"	15,526
K	"	4,112
Cd	"	4.8
Cr	"	99
Cu	"	291
Pb	"	110
Hg	"	0.81
Mo	"	10.7
As	"	10.4
Mn	"	826
Ni	"	35.1
Se	"	2.8
Zn	"	694

\*Results based on one sample.

TABLE 17: CONTROLLED SOLIDS DISTRIBUTION PROGRAM  
USER INFORMATION REPORT

---

1. Name of User:	Land of Lincoln Tree Nursery
2. Address of User:	2107 River Rd. Oregon, IL 61061
3. Type of Solids and Source:	Agitation dried lagooned anaerobically digested biosolids from the Stickney WRP. Drying was done at the Lawndale Avenue and Marathon solids drying areas.
4. Quantity Received (October 2007):	739 dry tons
Cumulative Quantity Received in 2007:	739 dry tons
Date Biosolids Received:	October 4, 5, 10, 11, 24, and 25, 2007
6. Use of Biosolids at Site:	Reclamation of nutrient-deficient land on tree nursery.
7. Size of Application Area:	30 acres
8. Application Rate:	24.63 dry tons/acre

---

TABLE 18: ANALYSIS\* OF DIGESTED BIOSOLIDS APPLIED TO LAND AT  
 LAND OF LINCOLN TREE NURSERY, OREGON, IL  
 FROM THE LAWNSDALE AVENUE AND MARATHON DRYING AREAS  
 DURING OCTOBER 2007

Constituent	Units	Concentration
pH		6.5
Total Solids	%	71.4
Total Volatile Solids	"	35.4
Volatile Acids as Acetic Acid	mg/dry kg	682
Total Kjeldahl-N	"	13,434
NH <sub>3</sub> -N	"	949
Total P	"	15,351
K	"	4,869.0
Cd	"	4.8
Cr	"	260
Cu	"	402
Pb	"	134
Hg	"	0.99
Mo	"	14.6
As	"	0.5
Mn	"	569
Ni	"	50.1
Se	"	2.0
Zn	"	903

\*Results based on four samples.