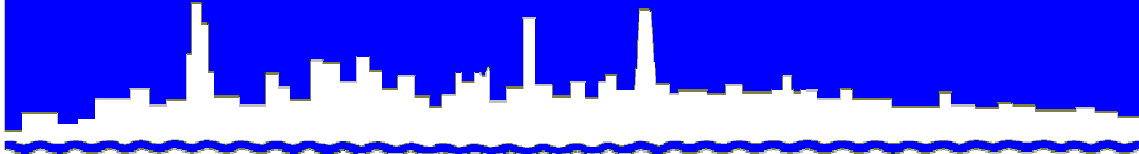


*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

*REPORT NO. 11-03*

*MONTHLY CONTROLLED SOLIDS*

*DISTRIBUTION REPORT*

*OCTOBER 2010*

*FEBRUARY 2011*

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**Thomas C. Granato, Ph.D.**  
Acting Director of Monitoring and Research  
thomas.granato@mwrdd.org

February 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, October 2010

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

Sludge flow schematic diagrams for solids processed during October 2010 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 15 sites in October. The user information report for those sites is presented in Table 1, and the analyses of the composited biosolids delivered to those sites are presented in Tables 2 and 3.

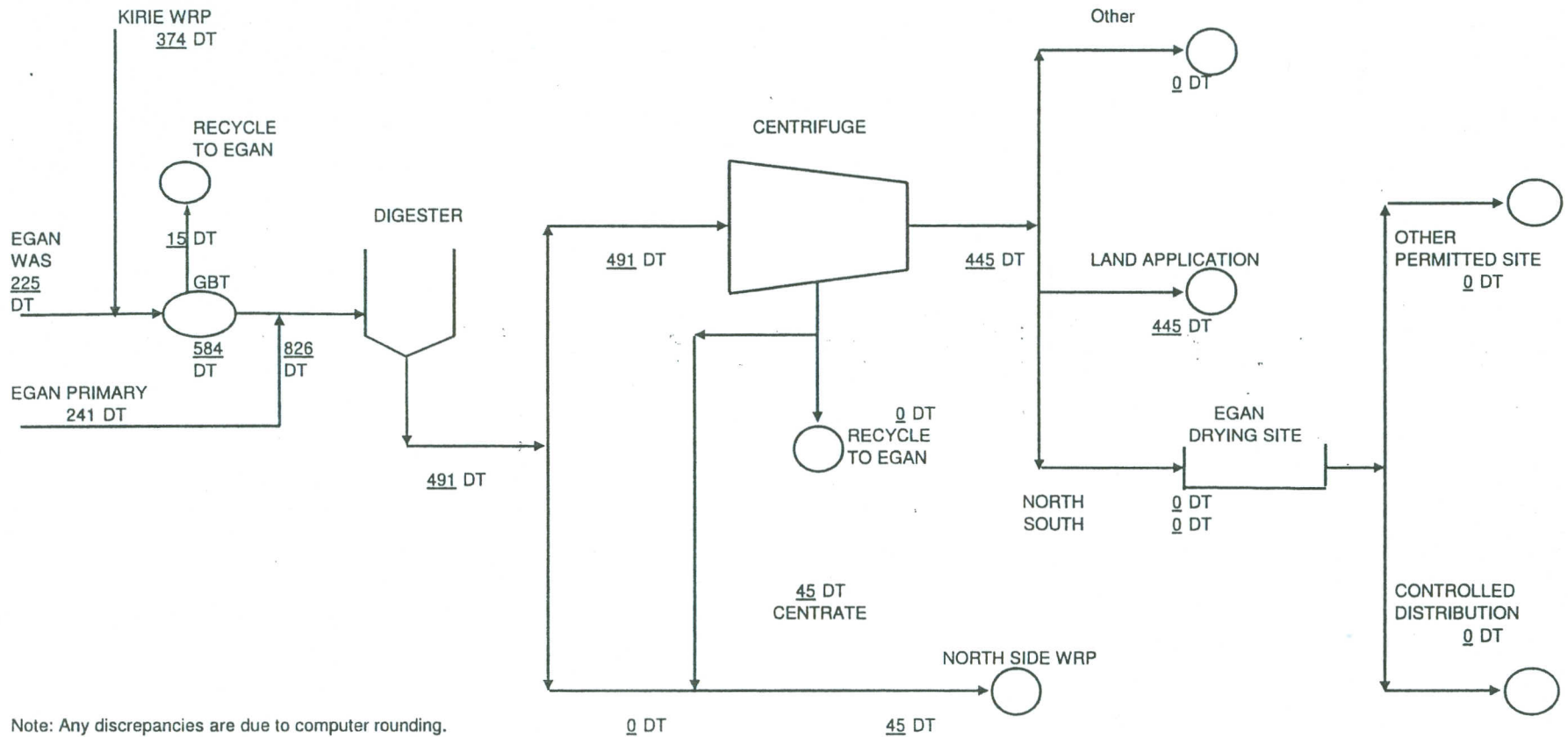
Very truly yours,

Thomas C. Granato  
Acting Director  
Monitoring and Research

TCG:OO:kq:cm  
Attachments  
cc: Aistars (USEPA)  
Sulski (IEPA)  
Kits  
O'Connor

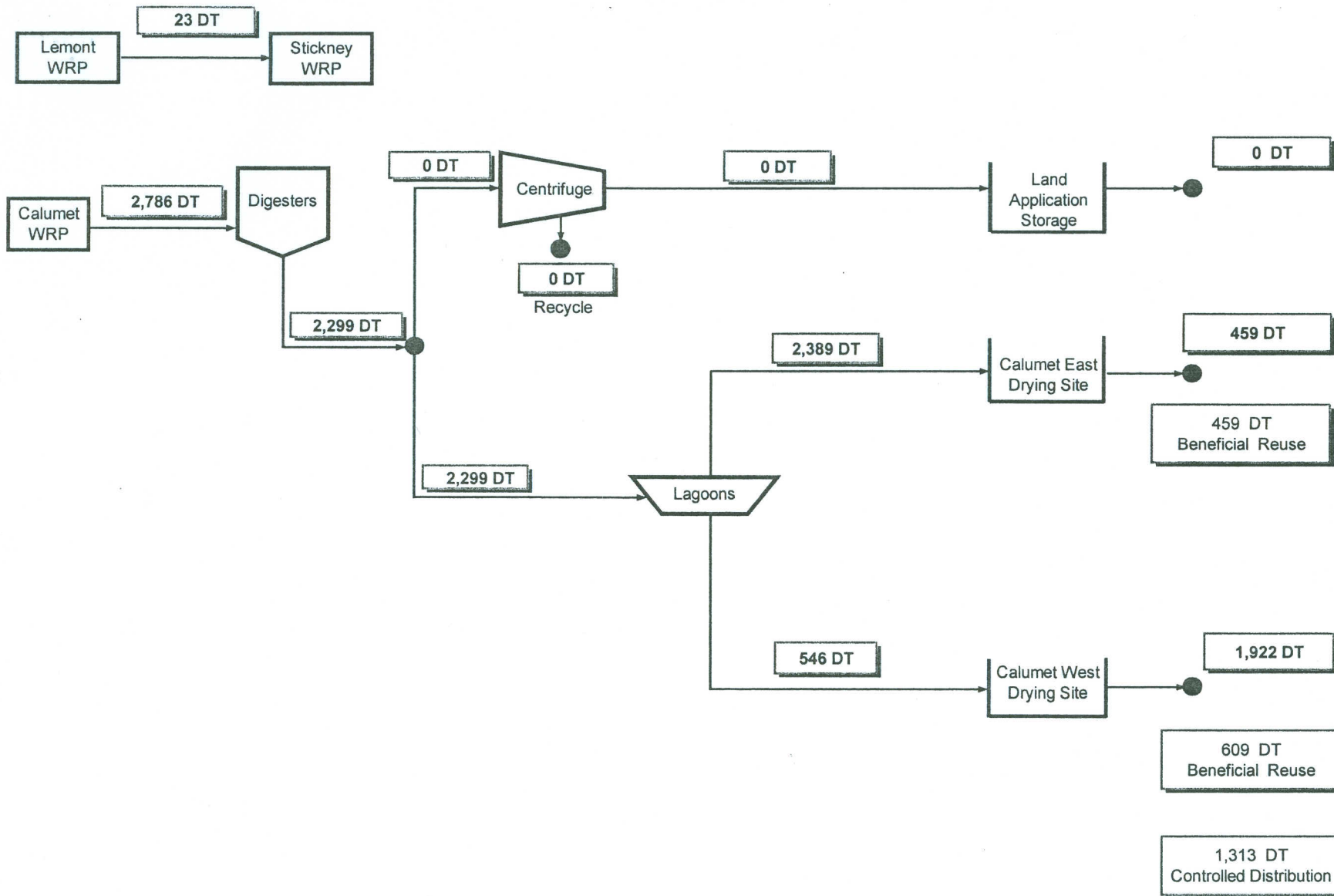
# J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

October-10



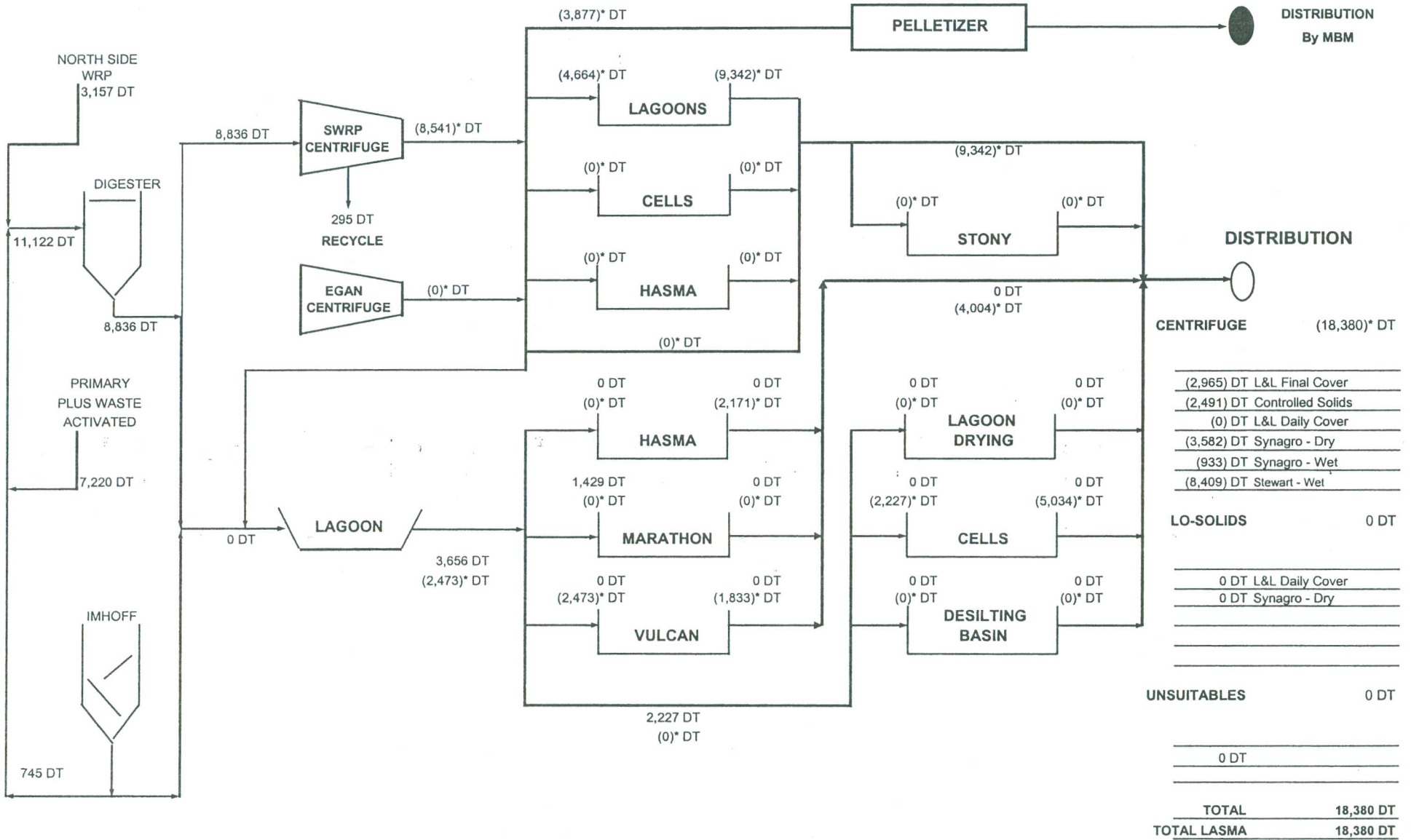
# CALUMET WRP SOLIDS DISTRIBUTION - October 2010

Figure 2



# STICKNEY WATER RECLAMATION PLANT SOLIDS DISTRIBUTION FOR OCTOBER 2010

FIGURE 3



(CENTRIFUGE CAKE)\*

jg 1/8/11 per Wale

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

Location No.	Name and Address of User	WRP <sup>1</sup>	Dates	Quantity (dry tons)		Biosolids Use	Application	
				2010 October	2010 Cumulative		Area (acres)	Rate (tons/acre)
1	YMCA 1834 N. Lawndale Chicago, IL 60647	Stickney	5	49.3	49.3	Incorporation with top soil for turf growth.	1	49.3
2	McNulty Farm 13410 McCarthy Rd. Lemont, IL 60439	Stickney	7	207.4	207.4	Topdressing as fertilizer for turf growth.	8	25.9
3	MWRD 6001 W. Pershing Rd. Cicero, IL 60804	Stickney	7	4.1	4.1	Incorporation with topsoil for turf growth.	0.1	41
4	BBJ Group 13821 S. Harrison Ave. Blue Island, IL 60406	Stickney	8, 11, 12, 13, 14, 15	1,722.1	1,737.5	Topsoil blending at Stony Island facility. <sup>2</sup>	NA	NA
5	Midlothian Park District Memorial Park 14500 S. Kostner Ave. Midlothian, IL 60445	Stickney	12	49.4	49.4	Topdressing as fertilizer for turf growth.	8	6.2
6	Posen Park District Memorial Park 14200 S. Campbell Ave. Posen, IL 60469	Stickney	12	78.8	78.8	Incorporation with topsoil for turf growth.	0.5	158
7	Hoffman Estates Pk. District Canterbury Fields 2352 Hasell Rd. Hoffman Estates, IL 60192	Stickney	13, 14	76.8	76.8	Topdressing as fertilizer for turf growth.	4.6	16.7
8	Woodridge Park District Cypress Cove Park 8325 S. Janes Ave. Woodridge, IL 60517	Stickney	13	13.5	75.1	Topdressing as fertilizer for turf growth.	1	13.5

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

Location No.	Name and Address of User	WRP <sup>1</sup>	Dates	Quantity (dry tons)		Biosolids Use	Application	
				2010 October	2010 Cumulative		Area (acres)	Rate (tons/acre)
9	Reavis High School 6034 W. 77 <sup>th</sup> St. Burbank, IL 60459	Stickney	14	198.2	198.2	Topdressing as fertilizer for turf growth.	8	24.8
10	Franklin Park Park District North Park 10040 Addison St. Franklin Park, IL 60131	Stickney	19	91.1	91.1	Incorporation with topsoil for turf growth.	3	30.4
11	BBJ Group 13821 S. Harrison Ave. Blue Island, IL 60406	Calumet	1	74.6	94.1	Topsoil blending at Blue Island facility.	NA	NA
12	Tinley Park Park District Freedom Park 7835 Timber Dr. Tinley Park, IL 60477	Calumet	4, 5	96.4	96.4	Topdressing as fertilizer for turf growth.	5	19.3
13	Dolton Park District Main Park 721 Engle St. Dolton, IL 604192	Calumet	5, 6, 7	377.7	377.7	Topdressing as fertilizer for turf growth.	25	15.1
14	BBJ Group 13821 S. Harrison Ave. Blue Island, IL 60406	Calumet	7, 8, 14, 15, 18, 19	693.4	2,430.9	Topsoil blending at Stony Island facility. <sup>2</sup>	NA	NA
15	Joliet Twsp. High School 201 E. Johnson St. Joliet, IL 60432	Calumet	19	71.2	71.2	Topdressing as fertilizer for turf growth.	3	23.7

<sup>1</sup>WRP – Water Reclamation Plant.

<sup>2</sup>Temporarily at the District's Stony Island Solids Drying Area for blending in spring 2011. The use of blended soil will be reported in 2011.

TABLE 2: ANALYSIS OF DIGESTED BIOSOLIDS FROM THE STICKNEY WATER RECLAMATION PLANT  
APPLIED TO LAND DURING OCTOBER 2010

	Units	User's Location No. <sup>1</sup>					
		1, 3	2, 4	4	4, 8	5, 6, 7, 9	10
pH		6.8	6.4	6.6	6.8	7.0	6.8
Total Solids	%	66.5	69.4	79.2	68.6	83.3	80.4
Total Volatile Solids	"	32.4	32.1	32.9	32.3	32.6	38.7
Volatile Acids as Acetic Acid	mg/dry kg	105	49	61	76	58	71
Total Kjeldahl-N	"	25,199	22,664	22,960	26,403	26,846	18,694
NH <sub>3</sub> -N	"	4,149	3,391	3,549	4,358	4,904	3,803
Total P		24,192	21,045	19,740	21,816	20,587	14,491
As	"	11	10	11	10	11	10
Cd	"	3.5	3.4	3.4	3.4	3.5	3.5
Cr	"	160	157	153	155	162	156
Cu	"	434	425	438	422	428	414
Hg	"	1.5	1.4	1.4	1.3	1.2	1.0
K	"	2,746	2,281	2,129	2,737	3,443	3,135
Mn	"	472	472	466	501	529	513
Mo	"	12	11	11	11	11	11
Ni	"	40	40	39	39	40	38
Pb	"	144	143	143	142	144	139
Se	"	<8	<8	<8	<8	<8	<8
Zn	"	900	892	872	862	881	855

<sup>1</sup>For location number designation, see the first column in [Table 1](#).



TABLE 3: ANALYSIS OF DIGESTED BIOSOLIDS FROM THE CALUMET WATER RECLAMATION PLANT APPLIED TO LAND DURING OCTOBER 2010

	Units	User's Location No. <sup>1</sup>			
		11, 12	13, 14	14	14, 15
pH		6.7	6.5	7.2	7.1
Total Solids	%	72.9	61.1	72.0	67.3
Total Volatile Solids	"	36.0	37.3	34.1	35.2
Volatile Acids as Acetic Acid	mg/dry kg	54	61	78	150
Total Kjeldahl-N	"	21,964	22,654	25,474	23,639
NH <sub>3</sub> -N	"	1,345	1,669	2,288	3,183
Total P	"	20,445	21,620	20,636	17,421
As	"	10.1	9.4	9.1	5
Cd	"	3.2	3.3	3.3	3.2
Cr	"	80	77	77	87
Cu	"	429	426	419	449
Hg	"	1.4	1.5	1.1	1.1
K	"	2,960	2,725	2,447	3,390
Mn	"	964	950	928	931
Mo	"	16	15	15	15
Ni	"	38	38	37	40
Pb	"	102	101	107	102
Se	"	5	4	4	1
Zn	"	1,155	1,147	1,164	1,127

<sup>1</sup>For location number designation, see the first column in [Table 1](#).