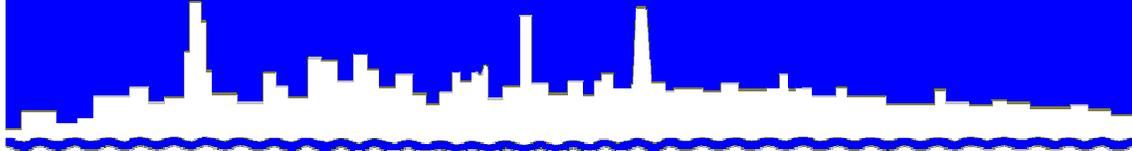


Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 12-3

MONTHLY CONTROLLED SOLIDS

DISTRIBUTION REPORT

NOVEMBER 2011

JANUARY 2012

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street

Chicago, Illinois 60611-3154

312.751.5190

Board of Commissioners

Terrence J. O'Brien
President

Kathleen Therese Meany
Vice President

Gloria Alitto Majewski
Chairman of Finance

Frank Avila

Patricia Horton

Barbara J. McGowan

Cynthia M. Santos

Debra Shore

Mariyana T. Spyropoulos

Thomas C. Granato, Ph.D.

Director of Monitoring and Research Department

thomas.granato@mwrdd.org

January 31, 2012

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, November 2011

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

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

Very truly yours,

Thomas C. Granato, Ph.D.
Director

TCG:AC:cm

Attachments

cc: V. Aistars (USEPA)

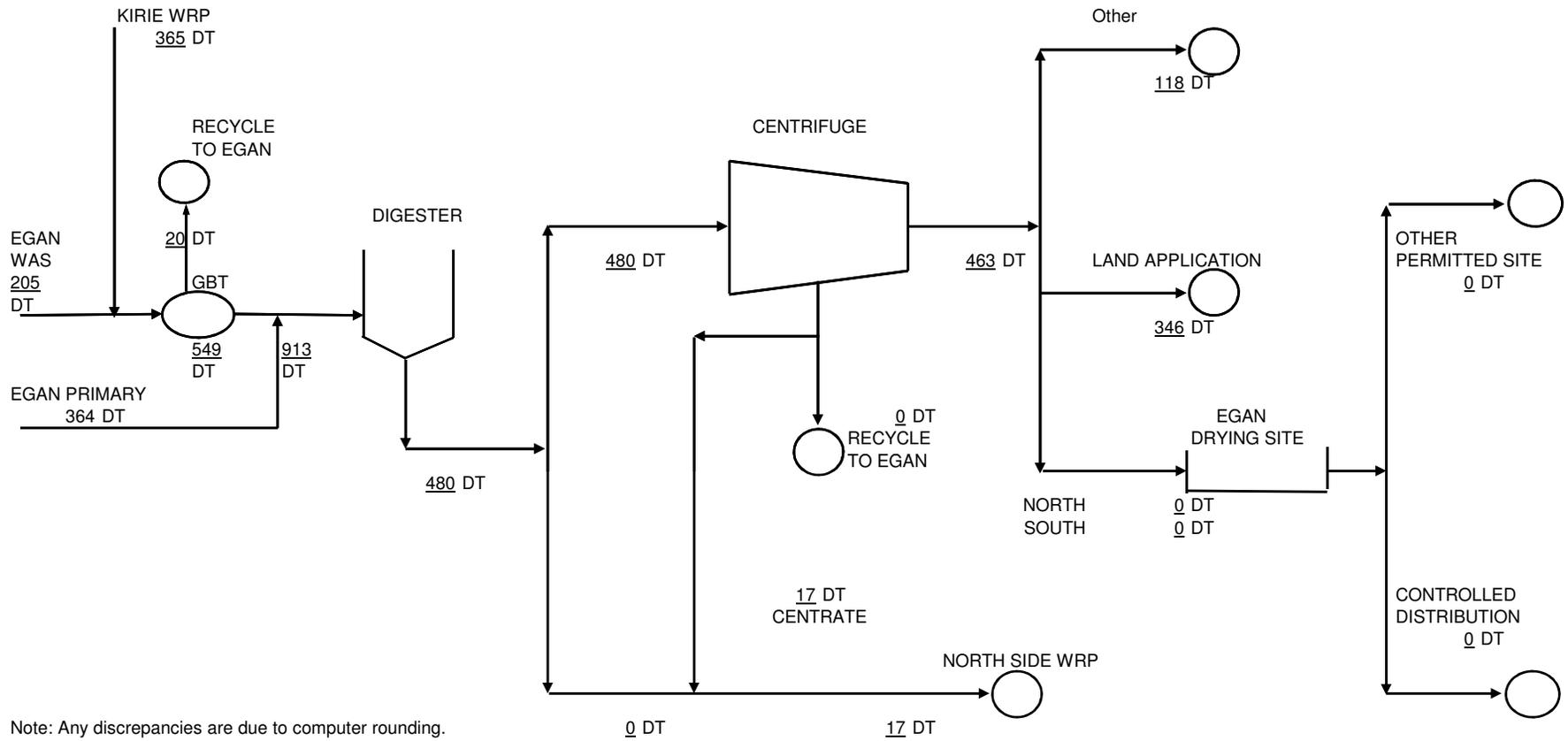
R. Sulski (IEPA)

K. Kits

O'Connor

J.E. EGAN WRP SOLIDS DISTRIBUTION- FIGURE 1

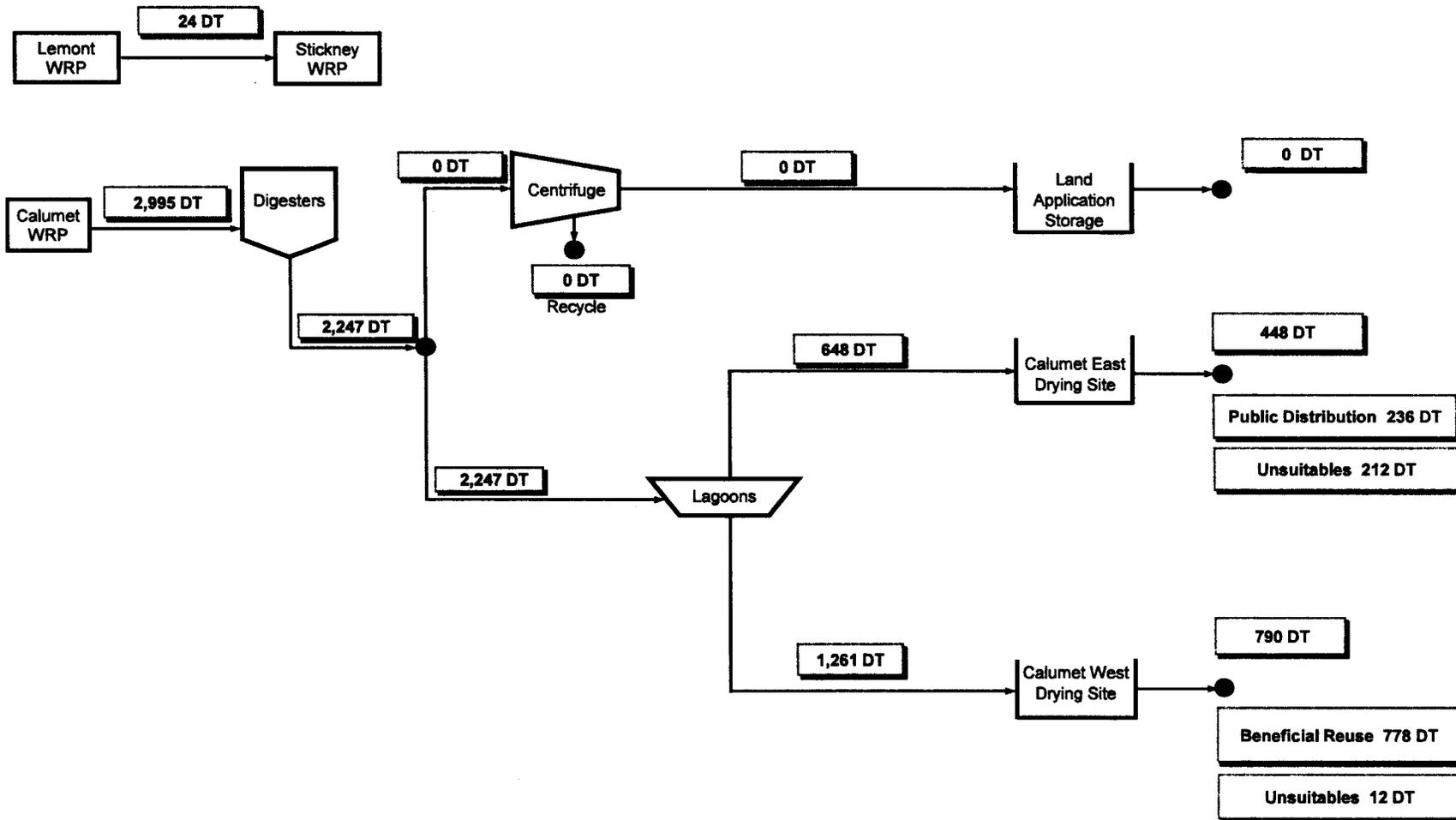
November-11



Note: Any discrepancies are due to computer rounding.

CALUMET WRP SOLIDS DISTRIBUTION - November 2011

Figure 2



STICKNEY WATER RECLAMATION PLANT SOLIDS DISTRIBUTION FOR NOVEMBER 2011

FIGURE 3

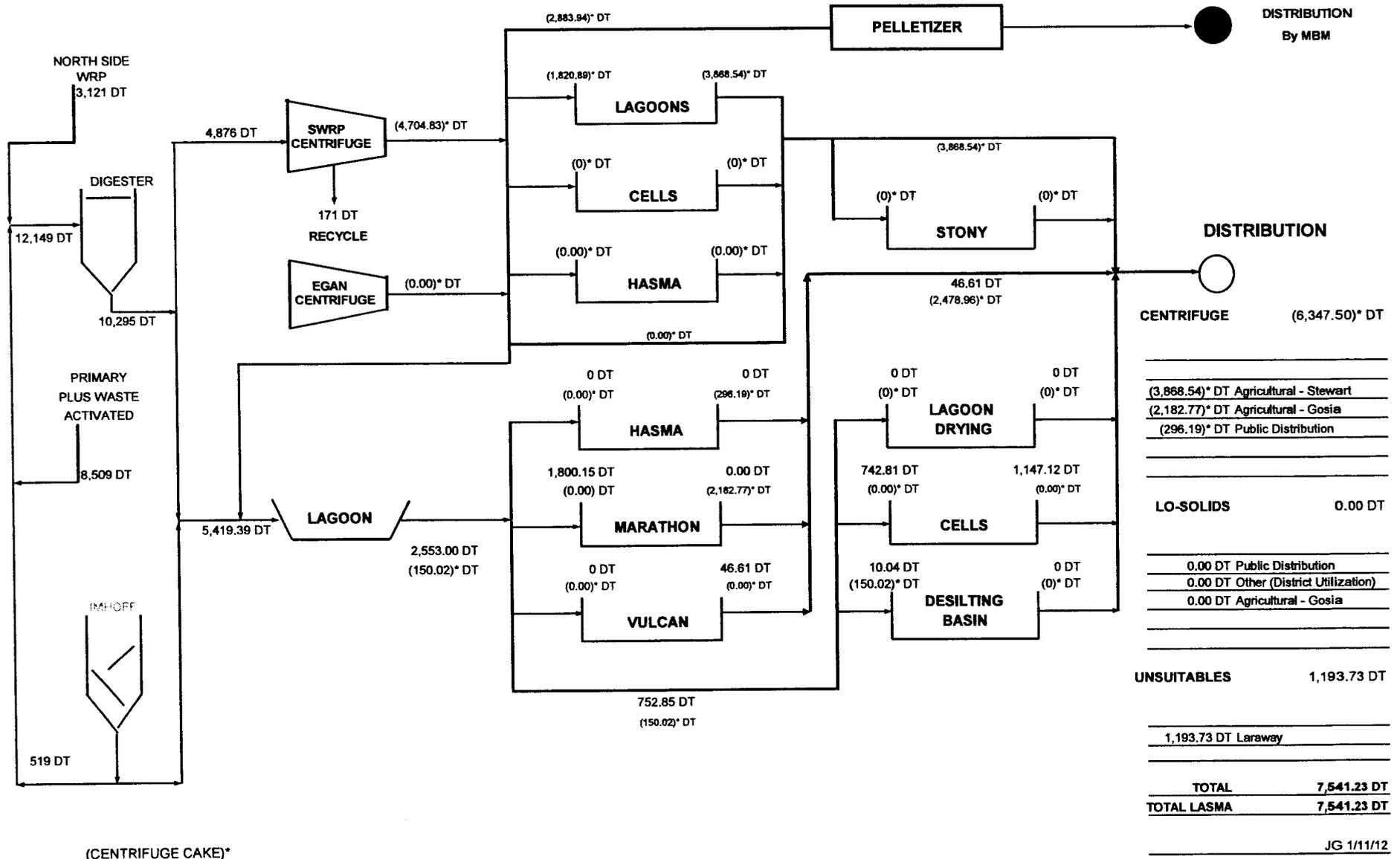


TABLE 1: CONTROLLED SOLIDS DISTRIBUTION PROGRAM USER INFORMATION REPORT FOR
AGITATION DRIED, ANAEROBICALLY DIGESTED SOLIDS

| Location No. | Name and Address of User | Source | Dates | Quantity (dry tons) | | Biosolids Use | Application | |
|--------------|--|-----------------|-------|---------------------|--------------------|--|-----------------|---------------------|
| | | | | 2011 November | 2011 Cumulative | | Area (acres) | Rate (tons/acre) |
| 1 | Coyote Run Golf Course 3301 Flossmoor Rd. Flossmoor, IL 60422 | Calumet WRP | 5 | 119.9 | 119.9 | Topdressing as fertilizer for turf growth | 5 | 24.0 |
| 2 | Tinley Park Park District Community Park 8125 W. 171 st St. Tinley Park., IL 60477 | Calumet WRP | 7 | 116.1 | 116.1 | Topdressing as fertilizer for turf growth | 5 | 23.2 |
| | | Stickney WRP | 7 | 25.1 | 25.1 | Topdressing as fertilizer for turf growth | 1 | 25.1 |
| 3 | Franklin Park Park District North Park 10040 Addison St. Franklin Park, IL 60131 | Stickney WRP | 18 | 14.7 | 14.7 | Topdressing as fertilizer for turf growth | 1 | 14.7 |
| 4 | Franklin Park Park District Birch Park 2952 Birch St. Franklin Park, IL 60131 | Stickney WRP | 18 | 28.4 | 28.4 | Topdressing as fertilizer for turf growth | 1 | 28.4 |

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 November | 2011 Cumulative | | Area (acres) | Rate (tons/acre) |
| 5 | Plainfield South High School 7800 W. Caton Farm Rd. Plainfield, IL 60586. | Stickney WRP | 18 | 62.1 | 62.1 | Topdressing as fertilizer for turf growth | 3 | 20.7 |
| 6 | Mokena Park District Hecht Park 9310 Birch Ave. Mokena IL 60448 | Stickney WRP | 22 | 30.4 | 30.4 | Topdressing as fertilizer for turf growth | 2 | 15.2 |
| 7 | Village of Hinsdale Veeck Park 19 E. Chicago Ave. Hinsdale, IL 60521 | Stickney WRP | 23, 25 | 135.5 | 135.5 | Topdressing as fertilizer for turf growth | 6 | 22.6 |

TABLE 2: ANALYSIS OF DIGESTED BIOSOLIDS APPLIED TO LAND FROM THE STICKNEY AND CALUMET WATER RECLAMATION PLANTS DRYING AREA DURING NOVEMBER 2011

| User Location No. ¹ | Calumet WRP | | Stickney WRP | | | | |
|--------------------------------|-------------|--------|--------------|---------|--------|--------|--------|
| | 1 | 2 | 2 | 3, 4, 5 | 6 | 7 | |
| <u>Constituent</u> | <u>Unit</u> | | | | | | |
| pH | 6.5 | 6.6 | 6.2 | 6.3 | 6.4 | 7.0 | |
| Total Solids | % | 73.4 | 79.9 | 59.8 | 60.8 | 64.8 | 66.4 |
| Total Volatile Solids | " | 39.4 | 33.6 | 41.7 | 40.7 | 42.6 | 43.1 |
| Volatile Acids as Acetic Acid | mg/kg | 26 | 41 | 90 | 41 | 100 | 114 |
| Total Kjeldahl-N | " | 16,035 | 18,782 | 24,070 | 27,587 | 21,464 | 30,685 |
| NH ₃ -N | " | 1,436 | 1,266 | 2,360 | 2,234 | 2,100 | 3,780 |
| Total P | " | 20,166 | 20,569 | 27,600 | 30,279 | 23,544 | 24,774 |
| As | " | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| Cd | " | 2.3 | 2.4 | 3.5 | 3.9 | 3.9 | 3.6 |
| Cr | " | 64 | 69 | 155 | 171 | 169 | 155 |
| Cu | " | 401 | 408 | 418 | 483 | 453 | 441 |
| Hg | " | 1.1 | 1.1 | 0.9 | 0.8 | 0.9 | 1.0 |
| K | " | 1,469 | 2,233 | 3,626 | 3,168 | 3,899 | 2,802 |
| Mn | " | 956 | 966 | 603 | 673 | 660 | 612 |
| Mo | " | 9.6 | 9.2 | 9.7 | 10.5 | 9.2 | 8.9 |
| Ni | " | 34.5 | 33.8 | 40.4 | 45.1 | 43.2 | 41.3 |
| Pb | " | 91 | 93 | 110 | 127 | 119 | 127 |
| Se | " | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Zn | " | 1,089 | 1,099 | 834 | 945 | 903 | 864 |

¹Locations listed in [Table 1](#).