# CHARACTERISTIC REPORT: s.283.55(1), Wis. Stats. Form 3400-49 Rev. 1-98

(Municipal Sludge, Industrial Sludge, Liquid Industrial Waste and By-Product Solids)

Permit No: **0036820**



Facility: MILWAUKEE METRO SEW DIST COMBINED
260 W. Seeboth St
Milwaukee , WI 53204-1446

FIN: 6555 Region: Southeast Region DOC: 371746

FID: 241487400 Date Received:

Forms require electronic submittal.

**Submit form electronically** and keep a version of the form for your records.

Reporting Period: 12/01/2016 - 12/31/2016

Form Due Date: 01/31/2017

Did you land apply this period? Yes

If yes and Municipal Sludge:

A) Were Class A Pathogen Requirements Satisfied? Yes

B) Were Vector Control Requirements Satisfied? Yes

**Submit a copy of your lab reports,** to your facility's DNR sludge representative or basin engineer unless instructed otherwise. Email submittal is preferred.

## A) Parameters to be Sampled

**DNR Contact:** Laura A Dietrich

| Sample Point Number | Parameter Number | Parameter | Date Sample Taken | Sample Type | Analytical Results | Units | Limit | Municipal Sludge Only | | Lab Certification Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | High Quality Limit | Date Analyzed for Organics | |
| 006 | 33 | Arsenic Dry Wt | 12/31/2016 | COMP | 1.6 | mg/kg | | 41 | | 241325920 |
| 006 | 86 | Cadmium Dry Wt | 12/31/2016 | COMP | 0.027 | mg/kg | | 39 | | 241325920 |
| 006 | 145 | Copper Dry Wt | 12/31/2016 | COMP | 210 | mg/kg | | 1500 | | 241325920 |
| 006 | 262 | Lead Dry Wt | 12/31/2016 | COMP | 30 | mg/kg | | 300 | | 241325920 |
| 006 | 278 | Mercury Dry Wt | 12/31/2016 | COMP | 0.15 | mg/kg | | 17 | | 157066030 |
| 006 | 295 | Molybdenum Dry Wt | 12/31/2016 | COMP | 9.3 | mg/kg | 75 | | | 241325920 |
| 006 | 313 | Nickel Dry Wt | 12/31/2016 | COMP | 27 | mg/kg | | 420 | | 241325920 |
| 006 | 421 | Selenium Dry Wt | 12/31/2016 | COMP | 5.2 | mg/kg | | 100 | | 241325920 |
| 006 | 551 | Zinc Dry Wt | 12/31/2016 | COMP | 570 | mg/kg | | 2800 | | 241325920 |
| 006 | 461 | Solids, Total | 12/31/2016 | COMP | 91.8 | Percent | | | | 241325920 |
| 006 | 335 | Nitrogen, Total Kjeldahl | 12/10/2016 | COMP | 6.2 | Percent | | | | 241325920 |
| 006 | 388 | Phosphorus, Total | 12/31/2016 | COMP | 2.3 | Percent | | | | 241325920 |
| 006 | 686 | Phosphorus, Water Extractable | 12/04/2016 | COMP | 0.039 | Percent | | | | 241325920 |
| 006 | 395 | Potassium, Total Recoverable | 12/31/2016 | COMP | 0.47 | Percent | | | | 241325920 |
| 006 | 365 | PCB Total Dry Wt | 12/31/2016 | COMP | 0.189 | mg/kg | | | | 405132750 |

## OUTFALLS

006 - Milorganite (Jones Island)

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## Municipal Sludge Only

### Pathogens

| Sample Point Number | Requirement Met | Class | Process Code / Process Description | Bacteria | Amount | Unit | Start Date | End Date |
|---|---|---|---|---|---|---|---|---|
| 006 | Yes | A | Heat Drying<br>The temperature of sewage sludge particles exceeds 80°C / 176° F and the moisture content of the sludge is less than 10%. | Fecal Coliform | 18 | MPN/g TS | 12/01/2016 | 12/08/2016 |

### Vectors

| Sample Point Number | Requirement Met | Vector Reduction | Amount | Date |
|---|---|---|---|---|
| 006 | Yes | Drying With Primary Solids > 90% (% TS) | 91.8 | 12/31/2016 |

### Description of Facility Sample Point:

A daily (defined as 5 a.m. to 5 a.m.) mass flow proportional sample is collected by an automatic sampler. Individual samples for the daily composite are collected every four tons of production as measured by the product belt scale. All parameters above are analyzed daily except Hg and TKN. Weekly composite samples are collected by combining daily samples in an amount proportional to overall production for a seven day period defined as Sunday through Saturday. One weekly composite sample is analyzed for TKN and four or five composites are analyzed for Hg each month.

### Comments:

The following QA flags are reported on the noted dates for the following parameters. An explanation of the flags will accompany the lab reports submitted to the basin engineer.
As: J: 2,6-8,10-15,18,27. B8: 3-5. Q3: 5.
Cd: J: 5.
Hg: AX: 17.
P: B9: 8,9,13,21,30,31. Q3: 12.
K: B8: 2,13,16,20,21. B9: 2,8-14,17-21,23-27. AO: 3-5,8,23-27,30,31. Q3: 13.
Se: B7: 1-8,10-31. J: 1-8,10-14,17-31. D2: 5. Q3: 5.
Solids: D1: 19.

Pathogen Control:

In 2015 and prior, the geometric mean was reported. However, the highest sample value is now reported in the table above.

Actual fecal coliform values: 18, 1.5, <0.2 MPN/gTS. Geometric mean: 1.754 MPN/gTS.