# WPDES PERMIT

## *STATE OF WISCONSIN*
## *DEPARTMENT OF NATURAL RESOURCES*

**PERMIT TO DISCHARGE UNDER THE WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**Village of Mattoon**

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to discharge from a facility located at
West Red River Road, Mattoon, Wisconsin
to
**Groundwater via spray irrigation in the SW ¼ of the SE ¼ of Section 16, T29N, R12E, Town of Hutchins in Shawano County, in the Wolf River Basin**

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after this expiration date an application shall be filed for reissuance of this permit, according to Chapter NR 200, Wis. Adm. Code, at least 180 days prior to the expiration date given below.

State of Wisconsin Department of Natural Resources
For the Secretary

By _____
Heidi Schmitt Marquez
Wastewater Field Supervisor

_____
Date Permit Signed/Issued

**PERMIT TERM: EFFECTIVE DATE - January 01, 2027** **EXPIRATION DATE - December 31, 2031**

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# 1 Influent Requirements

## 1.1 Sampling Point(s)

| Sampling Point Designation | |
|---|---|
| **Sampling Point Number** | **Sampling Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)** |
| 701 | INFLUENT: Representative 24-hour composite samples shall be collected from the wet well at the main lift station. Flow is measured with a sonic flow meter at the main lift station. |

## 1.2 Monitoring Requirements

The permittee shall comply with the following monitoring requirements.

### 1.2.1 Sampling Point 701 - INFLUENT

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Flow Rate | | MGD | Daily | Continuous | |
| $BOD_5$, Total | | mg/L | Weekly | 24-Hr Flow Prop Comp | |
| Suspended Solids, Total | | mg/L | Weekly | 24-Hr Flow Prop Comp | |
| Nitrogen, Total Kjeldahl | | mg/L | Monthly | 24-Hr Flow Prop Comp | |
| Nitrogen, Ammonia ($NH_3$-N) Total | | mg/L | Monthly | 24-Hr Flow Prop Comp | |
| Nitrogen, Organic Total | | mg/L | Monthly | Calculated | |

# 2 Land Treatment Requirements

## 2.1 Sampling Point(s)

| Sampling Point Designation | |
|---|---|
| **Sampling Point Number** | **Sampling Point Location, Waste Description/Sample Contents and Treatment Description (as applicable)** |
| 002 | SPRAY IRRIGATION: Representative samples shall be collected from the sampling tap on the discharge piping prior to spray irrigation. Flow is measured with a magnetic flow meter at the lagoon building. |

## 2.2 Monitoring Requirements and Limitations

The permittee shall comply with the following monitoring requirements and limitations.

### 2.2.1 Sampling Point (Outfall) 002 - LAND TREATMENT, Spray Irrigation

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Flow Rate | | MGD | Daily | Total Daily | |
| Hydraulic Application Rate | Monthly Avg | 10,000 gal/ac/day | Monthly | Calculated | Applies May - October. |
| Hydraulic Application Rate | Monthly Avg | 0 gal/ac/day | Monthly | Calculated | Applies November - April. |
| $BOD_5$, Total | Monthly Avg | 50 mg/L | Weekly | Grab | |
| Suspended Solids, Total | | mg/L | Weekly | Grab | |
| pH Field | | su | Weekly | Grab | |
| Chloride | | mg/L | Monthly | Grab | |
| Nitrogen, Total Kjeldahl | | mg/L | Monthly | Grab | |
| Nitrogen, Ammonia ($NH_3$-N) Total | | mg/L | Monthly | Grab | |
| Nitrogen, Organic Total | | mg/L | Monthly | Calculated | |
| Nitrogen, Nitrite + Nitrate Total | | mg/L | Monthly | Grab | |
| Nitrogen, Total | | mg/L | Monthly | Calculated | |

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Solids, Total Dissolved | | mg/L | Monthly | Grab | |
| Nitrogen, Max Applied On Any Zone | | lbs/ac/yr | Annual | Total Annual | Loadings in accordance with management plan. |
| Soil - Nitrogen, Available | | mg/kg | Annual | Grab | |
| Soil - Phosphorus, Available | | mg/kg | Annual | Grab | |
| Soil - Potassium, Available | | mg/kg | Annual | Grab | |
| Soil - pH Lab | | su | Annual | Grab | |
| Other Sources of Nitrogen | | lbs/ac/yr | Annual | Measure | |

**Daily Log – Monitoring Requirements and Limitations**
All discharge and monitoring activity shall be documented on log sheets. Originals of the log sheets shall be kept by the permittee as described under "Records Retention" in the Standard Requirements section, and if requested, made available to the Department.

| **Parameters** | **Limit** | **Units** | **Sample Frequency** | **Sample Type** |
|---|---|---|---|---|
| Zone or Location Being Sprayed | - | Number | Daily | Log |
| Volume per Zone | - | Gallons | Daily | Log |
| Acres Being Sprayed | - | Acres | Daily | Log |
| Start to End Time | - | Date, Hour | Daily | Log |
| Maximum Applied Volume | - | Inches/Load Cycle | Daily | Calculated |

**Note: Inches/load cycle = gallons/acre/load cycle divided by 27,154**

### 2.2.1.1 Average Annual Design Flow

The average annual design flow of the permittee's wastewater treatment facility is 0.038 MGD.

### 2.2.1.2 Maximum Applied Chloride/Nitrogen on Any Zone

Calculate the mass applied annually to each zone* utilized during the calendar year using the equation below. Record the highest total mass applied to any zone within the treatment system each year on the eDMR with a sample date of December 31.

(annual avg. concentration in mg/L) (tot. annual flow in million gallons per zone) (8.34) = lbs/ac/yr

acreage of zone

*A zone can be an entire field, or a portion as defined in the approved Land Treatment Management Plan.

### 2.2.1.3 Spray Irrigation Site(s) - Soil Analysis

The soil at each spray irrigation sample point (outfall) shall be tested annually for available nitrogen, available phosphorus, available potassium and pH. The soil tests shall be conducted by an approved testing facility. The permittee shall report sample results on an annual eDMR. If multiple soil tests are taken at this outfall, report all data on the eDMR and identify the zones sampled in the General Comments section of the report.

### 2.2.1.4 Discharge Season

The discharge can be directed to the spray irrigation system from May through October of each year. These dates can be extended earlier than May and/or later than October on a season-by-season basis (depending on weather conditions) if written or verbal approval is granted by the Department.

# 3 Groundwater Requirements

## 3.1 Monitoring Requirements and Limitations

### 3.1.1 Groundwater Monitoring System for Spray irrigation

**Location of Monitoring System:** SW1/4 of SE 1/4, Sec.16, T29N-R12E

**Groundwater Monitoring Well(s) to be Sampled:** MW-1 (801), MW-2 (802), MW-3 (803)

**Groundwater Monitoring Well(s) Used to Evaluate Background Groundwater Quality:** MW-1 (801)

Preventive Action Limits (PAL) and Enforcement Standards (ES) listed in the table below are from ss. NR 140.10 and NR.140.12, Wis. Adm. Code. PALs for s. NR 140.20 Wis. Adm. Code Indicator Parameters and s. NR 140.28 Wis. Adm. Code Exemptions with Alternative Concentration Limits listed in the table below have been calculated based on background groundwater quality data from this/these designated well(s). Groundwater contaminant concentrations shall be minimized and PALs met in groundwater monitoring wells to the extent it is technically and economically feasible.

**Groundwater Monitoring Well(s) Used for Point of Standards Application:** N/A

"Point of standards application" refers to any point of present groundwater use (i.e., potable well) or a specific groundwater monitoring well that is located beyond the design management zone or the property boundary, whichever is closer to the land treatment/disposal system at which the concentration of a substance in groundwater is measured for purposes of determining whether a PAL or an ES has been attained or exceeded. See the Standard Requirements section of this permit for additional conditions related to exceedance of groundwater standards.

**Required Monitoring:** Grab samples shall be collected from each monitoring well and analyzed for the parameters per the frequency shown in the table below.

| PARAMETER | UNITS | PREVENTIVE ACTION LIMIT | ENFORCEMENT STANDARD | FREQUENCY |
|---|---|---|---|---|
| Depth To Groundwater | feet | N/A | N/A | Quarterly |
| Groundwater Elevation | feet MSL | N/A | N/A | Quarterly |
| Nitrogen, Total Kjeldahl Dissolved | mg/L | N/A | N/A | Quarterly |
| Nitrogen, Ammonia Dissolved | mg/L | 0.97 | 9.7 | Quarterly |
| Nitrogen, Organic Dissolved | mg/L | 2.3 | N/A | Quarterly |
| Nitrogen, Nitrite + Nitrate (as N) Dissolved | mg/L | 2.0 | 10 | Quarterly |
| pH Field | su | 8.1 | N/A | Quarterly |
| Chloride Dissolved | mg/L | 125 | 250 | Quarterly |
| Solids, Total Dissolved | mg/L | 420 | N/A | Quarterly |

#### 3.1.1.1 Preventive Action Limits for pH

A result for pH is considered to have exceeded the pH PAL for this site if the result is less than **6.1** s.u. or greater than **8.1** s.u.

#### 3.1.1.2 Preventive Action Limits for Indicator Parameters

PALs for Indicator Parameters have been established for this site. For more information see "Indicator Parameter Preventive Action Limits and Alternative Concentration Limits" in the Standard Requirements section.

# 4 Land Application Requirements

## 4.1 Sampling Point(s)

The discharge(s) shall be limited to land application of the waste type(s) designated for the listed sampling point(s) on Department approved land spreading sites or by hauling to another facility.

| Sampling Point Designation | |
|---|---|
| **Sampling Point Number** | **Sampling Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)** |
| 003 | LAND APPLICATION: Liquid sludge that accumulates in the treatment lagoons. Representative samples shall be collected from various locations and depths and then composited for analysis. At the time of sample collection the permittee shall evaluate the depth or quantity of sludge in the lagoons and shall submit these findings with the characteristics report form. |

## 4.2 Monitoring Requirements and Limitations

The permittee shall comply with the following monitoring requirements and limitations.

### 4.2.1 Sampling Point (Outfall) 003 - LAND APPLICATION

**Sludge Management:** The permittee shall contact the Department prior to recycling/disposing of any sludge. The permittee shall monitor for the following parameters during the second year of the permit, (**2028**). Analysis shall be submitted by **January 31, 2029**.

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Solids, Total | | Percent | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Arsenic Dry Wt | Ceiling | 75 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Arsenic Dry Wt | High Quality | 41 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Cadmium Dry Wt | Ceiling | 85 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Cadmium Dry Wt | High Quality | 39 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Copper Dry Wt | Ceiling | 4,300 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Copper Dry Wt | High Quality | 1,500 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Lead Dry Wt | Ceiling | 840 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Lead Dry Wt | High Quality | 300 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Mercury Dry Wt | Ceiling | 57 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Mercury Dry Wt | High Quality | 17 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Molybdenum Dry Wt | Ceiling | 75 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Nickel Dry Wt | Ceiling | 420 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Nickel Dry Wt | High Quality | 420 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Selenium Dry Wt | Ceiling | 100 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Selenium Dry Wt | High Quality | 100 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Zinc Dry Wt | Ceiling | 7,500 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |
| Zinc Dry Wt | High Quality | 2,800 mg/kg | Once | Composite | Monitoring required in 2028 and prior to any land application. |

| Monitoring Requirements and Limitations | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Limit Type** | **Limit and Units** | **Sample Frequency** | **Sample Type** | **Notes** |
| Nitrogen, Total Kjeldahl | | Percent | Per Application | Composite | Monitoring required in 2028 and prior to any land application. |
| Nitrogen, Ammonium ($NH_4$-N) Total | | Percent | Per Application | Composite | Monitoring required in 2028 and prior to any land application. |
| Phosphorus, Total | | Percent | Per Application | Composite | Monitoring required in 2028 and prior to any land application. |
| Phosphorus, Water Extractable | | % of Tot P | Per Application | Composite | Monitoring required in 2028 and prior to any land application. |
| Potassium, Total Recoverable | | Percent | Per Application | Composite | Monitoring required in 2028 and prior to any land application. |
| PCB Total Dry Wt | Ceiling | 50 mg/kg | Once | Composite | Monitoring required in 2028. |
| PCB Total Dry Wt | High Quality | 10 mg/kg | Once | Composite | Monitoring required in 2028. |
| PFOA + PFOS | | µg/kg | Once | Calculated | Report the sum of PFOA and PFOS. See PFAS Permit Sections for more information. Monitoring is required any time sludge is hauled off site. Monitoring is also required prior to July 1, 2027 to meet the PFAS Sludge General Permit WI-0012345-01. |
| PFAS Dry Wt | | | Once | Grab | Perfluoroalkyl and Polyfluoroalkyl Substances based on updated DNR PFAS List. See PFAS Permit Sections for more information. |

| Other Sludge Requirements | |
|---|---|
| **Sludge Requirements** | **Sample Frequency** |
| **List 3 Requirements – Pathogen Control:** The requirements in List 3 shall be met prior to land application of sludge. | **Required only when sludge is land applied** |
| **List 4 Requirements – Vector Attraction Reduction:** The vector attraction reduction shall be satisfied prior to, or at the time of land application as specified in List 4. | **Required only when sludge is land applied** |

### 4.2.1.1 Requirements for Potential and/or Unscheduled Land Application of Sludge

Monitoring for List 1, PCBs, and PFAS (if listed in monitoring requirements table above) shall occur in year two of permit term **(2028)** unless a sludge removal date has been established which would occur within the permit term, but in a different year. Monitoring for List 2 is highly recommended during the same sampling event to determine acreage needs for land application of sludge should it be necessary at a future date.

If a sludge removal date has been established other than in year two (**2028**), monitoring for Lists 1, 2, 3 & 4, PCBs and PFAS (if listed) shall occur in the year of, but prior to, land application of the removed sludge. Monitoring must be done, and compliance assured, prior to land application, in addition to all other requirements specified herein and in ch. NR 204, Wis. Adm. Code. The permittee shall notify the Department prior to such land application. If sludge removal and land application are necessary after the monitoring for List 1, PCBs and PFAS (if listed) in year two of the permit, monitoring for Lists 2, 3 & 4 shall be done in the year of and prior to land application.

### 4.2.1.2 Changes in Feed Sludge Characteristics

If a change in feed sludge characteristics, treatment process, or operational procedures occurs which may result in a significant shift in sludge characteristics, the permittee shall reanalyze the sludge for List 1, 2, 3 and 4 parameters each time such change occurs.

### 4.2.1.3 Multiple Sludge Sample Points (Outfalls)

If there are multiple sludge sample points (outfalls), but the sludges are not subject to different sludge treatment processes, then a separate List 2 analysis shall be conducted for each sludge type which is land applied, just prior to land application, and the application rate shall be calculated for each sludge type. In this case, List 1, 3, and 4 and PCBs need only be analyzed on a single sludge type, at the specified frequency. If there are multiple sludge sample points (outfalls), due to multiple treatment processes, List 1, 2, 3 and 4 and PCBs shall be analyzed for each sludge type at the specified frequency.

### 4.2.1.4 Sludge Which Exceeds the High Quality Limit

Cumulative pollutant loading records shall be kept for all bulk land application of sludge which does not meet the high quality limit for any parameter. This requirement applies for the entire calendar year in which any exceedance of Table 3 of s. NR 204.07(5)(c), Wis. Adm. Code, is experienced. Such loading records shall be kept for all List 1 parameters for each site land applied in that calendar year. The formula to be used for calculating cumulative loading is as follows:

[(Pollutant concentration (mg/kg) x dry tons applied/ac) ÷ 500] + previous loading (lbs/acre) = cumulative lbs pollutant per acre

When a site reaches 90% of the allowable cumulative loading for any metal established in Table 2 of s. NR 204.07(5)(b), Wis. Adm. Code, the Department shall be so notified through letter or in the comment section of the annual land application report (3400-55).

### 4.2.1.5 Sludge Analysis for PCBs

The permittee shall analyze the sludge for Total PCBs one time during **2028**. The results shall be reported as "PCB Total Dry Wt". Either congener-specific analysis or Aroclor analysis shall be used to determine the PCB concentration. The permittee may determine whether Aroclor or congener specific analysis is performed. Analyses shall be performed in accordance with Table EM in s. NR 219.04, Wis. Adm. Code and the conditions specified in Standard Requirements of this permit. PCB results shall be submitted by January 31, following the specified year of analysis.

### 4.2.1.6 Lists 1, 2, 3, and 4

| **List 1**<br>**TOTAL SOLIDS AND METALS**<br>See the Monitoring Requirements and Limitations table above for monitoring frequency and limitations for the List 1 parameters |
|---|
| Solids, Total (percent) |
| Arsenic, mg/kg (dry weight) |
| Cadmium, mg/kg (dry weight) |
| Copper, mg/kg (dry weight) |
| Lead, mg/kg (dry weight) |
| Mercury, mg/kg (dry weight) |
| Molybdenum, mg/kg (dry weight) |
| Nickel, mg/kg (dry weight) |
| Selenium, mg/kg (dry weight) |
| Zinc, mg/kg (dry weight) |

| **List 2**<br>**NUTRIENTS**<br>See the Monitoring Requirements and Limitations table above for monitoring frequency for the List 2 parameters |
|---|
| Solids, Total (percent) |
| Nitrogen Total Kjeldahl (percent) |
| Nitrogen Ammonium (NH4-N) Total (percent) |
| Phosphorus Total as P (percent) |
| Phosphorus, Water Extractable (as percent of Total P) |
| Potassium Total Recoverable (percent) |

**List 3**
**PATHOGEN CONTROL FOR CLASS B SLUDGE**

The permittee shall implement pathogen control as listed in List 3. The Department shall be notified of the pathogen control utilized and shall be notified when the permittee decides to utilize alternative pathogen control.

The following requirements shall be met prior to land application of sludge.

| Parameter | Unit | Limit |
|---|---|---|
| Fecal Coliform* | MPN/gTS or CFU/gTS | 2,000,000 |
| **OR**, ONE OF THE FOLLOWING PROCESS OPTIONS | | |
| Aerobic Digestion | Air Drying | |
| Anaerobic Digestion | Composting | |
| Alkaline Stabilization | PSRP Equivalent Process | |

***** The Fecal Coliform limit shall be reported as the geometric mean of 7 discrete samples on a dry weight basis.

**List 4**
**VECTOR ATTRACTION REDUCTION**

The permittee shall implement any one of the vector attraction reduction options specified in List 4. The Department shall be notified of the option utilized and shall be notified when the permittee decides to utilize an alternative option.

One of the following shall be satisfied prior to, or at the time of land application as specified in List 4.

| Option | Limit | Where/When it Shall be Met |
|---|---|---|
| Volatile Solids Reduction | ≥38% | Across the process |
| Specific Oxygen Uptake Rate | ≤1.5 mg $O_2$/hr/g TS | On aerobic stabilized sludge |
| Anaerobic bench-scale test | <17 % VS reduction | On anaerobic digested sludge |
| Aerobic bench-scale test | <15 % VS reduction | On aerobic digested sludge |
| Aerobic Process | >14 days, Temp >40°C and Avg. Temp > 45°C | On composted sludge |
| pH adjustment | >12 S.U. (for 2 hours) and >11.5 (for an additional 22 hours) | During the process |
| Drying without primary solids | >75 % TS | When applied or bagged |
| Drying with primary solids | >90 % TS | When applied or bagged |
| Equivalent Process | Approved by the Department | Varies with process |
| Injection | - | When applied |
| Incorporation | - | Within 6 hours of application |

### 4.2.1.7 Daily Land Application Log

| Daily Land Application Log | | |
|---|---|---|
| **Discharge Monitoring Requirements and Limitations**<br>The permittee shall maintain a daily land application log for biosolids land applied each day when land application occurs. The following minimum records must be kept, in addition to all analytical results for the biosolids land applied. The log book records shall form the basis for the annual land application report requirements. | | |
| **Parameters** | **Units** | **Sample Frequency** |
| DNR Site Number(s) | Number | Daily as used |
| Outfall number applied | Number | Daily as used |
| Acres applied | Acres | Daily as used |
| Amount applied | As appropriate * /day | Daily as used |
| Application rate per acre | unit */acre | Daily as used |
| Nitrogen applied per acre | lb/acre | Daily as used |
| Method of Application | Injection, Incorporation, or surface applied | Daily as used |

*gallons, cubic yards, dry US Tons or dry Metric Tons

### 4.2.1.8 Sludge Monitoring for PFAS

Sampling shall occur for perfluoroalkyl and polyfluoroalkyl compounds (PFAS) listed in the table below and as indicated in sampling point sections above. Monitoring shall occur at each sample point when sludge is generated regardless of the end use (i.e. land applied, hauled to another facility, landfilled).

| PERFLUOROALKYLCARBOXILIC Acids (PFCAs) | |
|---|---|
| PFBA | Perfluorobutanoic acid |
| PFPeA | Perfluroropentanoic acid |
| PFHxA | Perfluorohexanoic acid |
| PFHpA | Perfluoroheptanoic acid |
| PFOA | Perfluorooctanoic acid |
| PFNA | Perfluorononanoic acid |
| PFDA | Perfluorodecanoic acid |
| PFUnA | Perfluroroundecanoic acid |
| PFDoA | Perfluorododecanoic acid |
| PFTrDA | Perfluorotridecanoic acid |
| PFTeDA | Perfluorotetradecanoic acid |
| **PERFLUOROALKYLSULFONIC Acids (PFSAs)** | |
| PFBS | Perfluorobutane sulfonic acid |
| PFPeS | Perfluroropentane sulfonic acid |
| PFHxS | Perfluorohexane sulfonic acid |
| PFHpS | Perfluoroheptane sulfonic acid |

| | |
|---|---|
| PFOS | Perfluorooctane sulfonic acid |
| PFNS | Perfluorononane sulfonic acid |
| PFDS | Perfluorodecane sulfonic acid |
| PFDoS | Perfluorododecane sulfonic acid |
| **TELOMER SULFONIC Acids** | |
| 4:2FTSA | *1H,1H,2H,2H*-Perfluorohexane sulfonic acid |
| 6:2FTSA | *1H,1H,2H,2H*-Perfluorooctane sulfonic acid |
| 8:2FTSA | *1H,1H,2H,2H*-Perfluorodecane sulfonic acid |
| **PERFLUOROOCTANCESULFONAMIDES (FOSAs)** | |
| PFOSA | Perfluroroctane sulfonamide |
| NMeFOSA | N-Methyl perfluoroocatane sulfonamide |
| NEtFOSA | N-Ethyl perfluorooctane sulfonamide |
| **PERFLUOROOCTANCESULFONAMIDOACETIC Acids** | |
| NMeFOSAA | N-Methyl perfluoroocatane sulfonamidoacetic acid |
| NEtFOSAA | N-Ethyl perfluorooctane sulfonamidoacetic acid |
| **NATIVE PERFLUOROOCTANCESULFONAMIDOETHANOLS (FOSEs)** | |
| NMeFOSE | N-Methyl perfluorooctane sulfonamideoethanol |
| NEtFOSE | N-Ethyl perfluorooctane sulfonamidoethanol |
| **PERFLUOROALKYLETHERCARBOXYLIC Acids (PFECAs)** | |
| HFPO-DA | Hexafluoropropylene oxide dimer acid |
| ADONA | 4,8-dioxa-3*H*-perfluorononanoic acid |
| PFMPA | Perfluoro-3-methoxypropanoic acid |
| PFMBA | Perfluoro-4-methoxybutanoic acid |
| NFDHA | Nonafluoro-3,6-dioxaheptaoic acid |
| **CHLORO-PERFLUOROALKYLSULFONATE** | |
| 9Cl-PF3ONS | 9-chloroehexadecafluoro-3-oxanone-1-sulfonic acid |
| 11Cl-PF3OUdS | 11-chloroelcosafluoro-3-oxaundecane-1-sulfonic acid |
| PFEESA | Perfluroro(2-ethoxyethane)sulfonic acid |
| **TELOMER SULFONIC Acids** | |
| 3:3FTCA | 3-Perfluoropropyl propanoic acid |
| 5:3FTCA | *2H,2H,3H,3H*-Perfluorooctanoic acid |
| 7:3FTCA | 3-Perfluoroheptyl propanoic acid |

Note: If WDNR Lab Certification removes a particular compound from the reporting list above and upon receiving written communication from the department, reporting for that compound is no longer required.

### 4.2.1.9 Sampling and Reporting Sludge Samples for PFAS

Representative sludge samples shall be collected at each sample point as listed. At minimum, liquid sludge storage/digesters should be thoroughly mixed prior to sampling. Cake sludge samples should consist of seven equal size discrete samples and be collected from different areas and depths then composited into one sample for laboratory analysis.

Note: If additional equipment is used for collecting sludge samples (i.e., shovels, compositing buckets, bottles, etc.), then a one-time equipment blank is recommended to be collected with the first sample. An equipment blank sample is

collected by passing laboratory verified PFAS-free water over or through field sampling equipment before the collection of a representative sludge sample. The equipment blank result shall be reported on the annual Sludge Characteristics Form (3400-049) in the comment section when reporting PFAS concentrations in the sludge.

The permittee shall report each of the PFAS sludge monitoring results on the annual Sludge Characteristics and Monitoring Form (3400-049) as provided by the department. The permittee shall also report the summation of PFOS and PFOA on this same form. All results shall be reported in dry weight. The annual Sludge Characteristics and Monitoring Form (3400-049) are due January 31, of the year following the collection of the sludge samples.

The laboratory performing the analysis on any samples shall be certified for the applicable PFAS compounds in the solids matrix by the Wisconsin Laboratory Certification Program established under s. 299.11, Wis. Stats., and in accordance with s. NR 149.41, Wis. Adm. Code. The department may reject any sample results if results are produced by a laboratory that is not in compliance with certification requirements under ch. NR 149, Wis. Adm. Code.

#### 4.2.1.10 PFAS Land Application Requirements

The department recommends the landspreading and/or land application of sludge be done in a manner consistent with the most recent version of the "Interim Strategy for Land Application of Biosolids and Industrial Sludges containing PFAS".

# 5 Schedules

## 5.1 Sludge Depth

| Required Action | Due Date |
|---|---|
| **Sludge Depth:** Measure the sludge depth for the lagoons and report findings. | 01/01/2028 |
| **Sludge Depth:** Measure the sludge depth for the lagoons and report findings. | 01/01/2029 |
| **Sludge Depth:** Measure the sludge depth for the lagoons and report findings. | 01/01/2030 |
| **Sludge Depth:** Measure the sludge depth for the lagoons and report findings. | 01/01/2031 |

## 5.2 Land Treatment Management Plan

A management plan is required for the land treatment system.

| Required Action | Due Date |
|---|---|
| **Land Treatment Management Plan Submittal:** Submit an update to the management plan to optimize the land treatment system performance and demonstrate compliance with ch. NR 206, Wis. Adm. Code. The land treatment system shall be operated in accordance with the approved management plan. | 01/01/2028 |

## 5.3 Sludge Management Plan

| Required Action | Due Date |
|---|---|
| **Submit a Sludge Management Plan:** The permittee shall submit an update to the management plan for approval if removal of sludge will occur during this permit term. The plan shall demonstrate compliance with ch. NR 204 Wis. Adm. Code and at minimum address 1) How and where sludge is sampled; 2) Available sludge storage details and location(s); 3) How the sludge will be removed with details on volume, characterization and how the treatment plant will continue to function during the drawdown; 4) Describe the type of transportation and spreading vehicles and loading and unloading practices; 5) Identify approved land application sites, apply for needed sites, site limitations, total acres needed and vegetative cover management; 6) Specify record keeping procedures including site loading; 7) Address contingency plans for adverse weather and odor/nuisance abatement; and 8) Include any other pertinent information such as other disposal options that may be used or specifications of any pretreatment processes.<br><br>Once approved, all sludge management activities shall be conducted in accordance with the plan. Any changes to the plan must be approved by the Department prior to implementing the changes. No desludging may occur unless approval from the Department is obtained. Daily logs shall be kept that record where the sludge has been disposed.<br><br>The plan is due at least 60 days prior to desludging. | |

# 6 Standard Requirements

**Chapter NR 205, Wisconsin Administrative Code:** The conditions in ss. NR 205.07(1) and NR 205.07(2), Wis. Adm. Code, are included by reference in this permit. The permittee shall comply with all of these requirements. Some of these requirements are outlined in the Standard Requirements section of this permit. Requirements not specifically outlined in the Standard Requirement section of this permit can be found in ss. NR 205.07(1) and NR 205.07(2), Wis. Adm. Code.

## 6.1 Reporting and Monitoring Requirements

### 6.1.1 Monitoring Results

Monitoring results obtained during the previous month shall be summarized and reported on a Department Wastewater Discharge Monitoring Report. The report may require reporting of any or all of the information specified below under 'Recording of Results'. This report is to be returned to the Department no later than the date indicated on the form. A copy of the Wastewater Discharge Monitoring Report Form or an electronic file of the report shall be retained by the permittee.

Monitoring results shall be reported on an electronic discharge monitoring report (eDMR). The eDMR shall be certified electronically by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report form is true, accurate and complete.

If the permittee monitors any pollutant more frequently than required by this permit, the results of such monitoring shall be included on the Wastewater Discharge Monitoring Report pursuant s. NR 205.07(1)(r)2., Wis. Adm. Code.

For the purpose of meeting sampling frequency requirements, a week is defined as a calendar week, which begins on Sunday and ends on Saturday. The calendar week shall be used as the basis for reporting monitoring data on discharge monitoring reports.

The permittee shall comply with all limits for each parameter regardless of monitoring frequency. For example, monthly, weekly, and/or daily limits shall be met even with monthly monitoring. The permittee may monitor more frequently than required for any parameter.

### 6.1.2 Sampling and Testing Procedures

Sampling and laboratory testing procedures shall be performed in accordance with Chapters NR 218 and NR 219, Wis. Adm. Code, and completed by a laboratory certified or registered in accordance with the requirements of ch. NR 149, Wis. Adm. Code. Groundwater sampling shall be performed in accordance with procedures contained in s. NR 140.16, Wis. Adm. Code, and the WDNR publications, Groundwater Sampling Desk Reference (PUBL-DG-037-96) and Groundwater Sampling Field Manual (PUBL-DG-038-96). The analytical methodologies used shall enable the laboratory to quantitate all substances for which monitoring is required at levels below the effluent limitation and/or groundwater standard. If the required level cannot be met by any of the methods available in ch. NR 219, Wis. Adm. Code, then the method with the lowest limit of detection shall be selected. Additional test procedures may be specified in this permit.

### 6.1.3 Sample Types

The permittee shall use the following definitions from s. NR 218.04, Wis. Adm. Code as prescribed in the WPDES permit for the appropriate method and manner of obtaining samples:
**24-hour Composite Sample:** A combination of individual samples taken at intervals of not more than one hour such that the volumes of each of the individual samples and of the combination are proportional to the volumes of flow during each interval and during the 24-hour period respectively.

- **24-hour Flow Proportional Composite Sample:** A combination of individual grab samples taken over a 24-hr period, where the individual grab samples are of equal volume and taken at intervals after a specified volume of discharge has occurred.
- **24-hour Time Proportional Composite Sample:** A combination of individual grab samples taken over a 24-hr period, where the individual grab samples are of equal volume and taken at consistent intervals not exceeding 15 minutes.

**Composite Sample:** A combination of individual samples of equal volume taken at approximately equal intervals not exceeding one hour over a specified period of time.

- **3-hr Composite Sample:** A combination of three (3) individual grab samples of equal volume taken at one-hour intervals.

**Continuous Sample:** A composite of successive individual samples of equal volume taken automatically at equal intervals not exceeding 15 minutes. Where the term is used in connection with monitoring temperature or pH it means continuous in-line recording or monitoring at intervals of not more than 15 minutes.

Continuous sample is synonymous with in-line measurements and may apply to flow, temperature, pH, and dissolved oxygen measurements only. The in-line instrument takes automatic readings at intervals of not more than 15 minutes during a 24-hour period.

**Grab Sample:** A single sample taken at one moment of time or a combination of several smaller samples of equal volume taken in less than a 2-minute period. Where the term is used in connection with monitoring temperature or pH it means a single measurement.

## 6.1.4 Recording of Results

The permittee shall maintain records which provide the following information for each effluent measurement or sample taken:

- The date, exact place, method and time of sampling or measurements;
- The individual who performed the sampling or measurements;
- The date the analysis was performed;
- The individual who performed the analysis;
- The analytical techniques or methods used; and
- The results of the analysis.

## 6.1.5 Reporting of Monitoring Results

The permittee shall use the following conventions when reporting effluent monitoring results:

- Pollutant concentrations less than the limit of detection shall be reported as < (less than) the value of the limit of detection. For example, if a substance is not detected at a detection limit of 0.1 mg/L, report the pollutant concentration as < 0.1 mg/L.
- Pollutant concentrations equal to or greater than the limit of detection, but less than the limit of quantitation, shall be reported and the limit of quantitation shall be specified.
- For purposes of calculating fees under ch. NR 101, Wis. Adm. Code, a reporting limit of 2.0 mg/L for $BOD_5$ and 2.5 mg/L Total Suspended Solids shall be considered to be limits of quantitation.
- For the purposes of reporting a calculated result, average or a mass discharge value, the permittee may substitute a "0" (zero) for any pollutant concentration that is less than the limit of detection. However, if the effluent limitation is less than the limit of detection, the department may substitute a value other than zero for

results less than the limit of detection, after considering the number of monitoring results that are greater than the limit of detection and if warranted when applying appropriate statistical techniques.

- If no discharge occurs through an outfall, flow related parameters (e.g. flow rate, hydraulic application rate, volume, etc.) should be reported as "0" (zero) at the required sample frequency specified for the outfall. For example: if the sample frequency is daily, "0" would be reported for any day during the month that no discharge occurred.

### 6.1.6 Compliance Maintenance Annual Reports

Compliance Maintenance Annual Reports (CMAR) shall be completed using information obtained over each calendar year regarding the wastewater conveyance and treatment system. The CMAR shall be submitted and certified by the permittee in accordance with ch. NR 208, Wis. Adm. Code, by June 30, each year on an electronic report form provided by the Department.

In the case of a publicly owned treatment works, a resolution shall be passed by the governing body and submitted as part of the CMAR, verifying its review of the report and providing responses as required. Private owners of wastewater treatment works are not required to pass a resolution; but they must provide an Owner Statement and responses as required, as part of the CMAR submittal.

The CMAR shall be certified electronically by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The certification verifies that the electronic report is true, accurate and complete.

### 6.1.7 Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings or electronic data records for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit for a period of at least 3 years from the date of the sample, measurement, report or application. All pertinent sludge information, including permit application information and other documents specified in this permit or s. NR 204.06(9), Wis. Adm. Code shall be retained for a minimum of 5 years.

### 6.1.8 Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or correct information to the Department.

### 6.1.9 Reporting Requirements – Alterations or Additions

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is only required when:

- The alteration or addition to the permitted facility may meet one of the criteria for determining whether a facility is a new source.
- The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification requirement applies to pollutants which are not subject to effluent limitations in the existing permit.
- The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use of disposal sites not reported during the permit application process nor reported pursuant to an approved land application plan. Additional sites may not be used for the land application of sludge until department approval is received.

## 6.2 System Operating Requirements

### 6.2.1 Noncompliance Reporting

Sanitary sewer overflows and sewage treatment facility overflows shall be reported according to the 'Sanitary Sewer Overflows and Sewage Treatment Facility Overflows' section of this permit.

The permittee shall report the following types of noncompliance by a telephone call to the Department's regional office within 24 hours after becoming aware of the noncompliance:

- Any noncompliance which may endanger health or the environment;
- Any violation of an effluent limitation resulting from a bypass;
- Any violation of an effluent limitation resulting from an upset; and
- Any violation of a maximum discharge limitation for any of the pollutants listed by the Department in the permit, either for effluent or sludge.

A written report describing the noncompliance shall also be submitted to the Department's regional office within 5 days after the permittee becomes aware of the noncompliance. On a case-by-case basis, the Department may waive the requirement for submittal of a written report within 5 days and instruct the permittee to submit the written report with the next regularly scheduled monitoring report. In either case, the written report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; the steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance; and if the noncompliance has not been corrected, the length of time it is expected to continue.

A scheduled bypass approved by the Department under the 'Scheduled Bypass' section of this permit shall not be subject to the reporting required under this section.

**NOTE:** Section 292.11(2)(a), Wisconsin Statutes, requires any person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance to notify the Department of Natural Resources **immediately** of any discharge not authorized by the permit. **The discharge of a hazardous substance that is not authorized by this permit or that violates this permit may be a hazardous substance spill. To report a hazardous substance spill, call DNR's 24-hour HOTLINE at 1-800-943-0003.**

### 6.2.2 Flow Meters

Flow meters shall be calibrated annually, as per s. NR 218.06, Wis. Adm. Code.

### 6.2.3 Raw Grit and Screenings

All raw grit and screenings shall be disposed of at a properly licensed solid waste facility or picked up by a licensed waste hauler. If the facility or hauler are located in Wisconsin, then they shall be licensed under chs. NR 500-555, Wis. Adm. Code.

### 6.2.4 Sludge Management

All sludge management activities shall be conducted in compliance with ch. NR 204 "Domestic Sewage Sludge Management", Wis. Adm. Code.

### 6.2.5 Prohibited Wastes

Under no circumstances may the introduction of wastes prohibited by s. NR 211.10, Wis. Adm. Code, be allowed into the waste treatment system. Prohibited wastes include those:

- Which create a fire or explosion hazard in the treatment work;
- Which will cause corrosive structural damage to the treatment work;

- Solid or viscous substances in amounts which cause obstructions to the flow in sewers or interference with the proper operation of the treatment work;
- Wastewaters at a flow rate or pollutant loading which are excessive over relatively short time periods so as to cause a loss of treatment efficiency; and
- Changes in discharge volume or composition from contributing industries which overload the treatment works or cause a loss of treatment efficiency.

### 6.2.6 Bypass

This condition applies only to bypassing at a sewage treatment facility that is not a scheduled bypass, approved blending as a specific condition of this permit, a sewage treatment facility overflow or a controlled diversion as provided in the sections titled 'Scheduled Bypass', 'Blending' (if approved), 'SSO's and Sewage Treatment Facility Overflows' and 'Controlled Diversions' of this permit. Any other bypass at the sewage treatment facility is prohibited and the Department may take enforcement action against a permittee for such occurrences under s. 283.89, Wis. Stats. The Department may approve a bypass if the permittee demonstrates all the following conditions apply:

- The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities or adequate back-up equipment, retention of untreated wastes, reduction of inflow and infiltration, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance. When evaluating feasibility of alternatives, the department may consider factors such as technical achievability, costs and affordability of implementation and risks to public health, the environment and, where the permittee is a municipality, the welfare of the community served; and
- The bypass was reported in accordance with the Noncompliance Reporting section of this permit.

### 6.2.7 Scheduled Bypass

Whenever the permittee anticipates the need to bypass for purposes of efficient operations and maintenance and the permittee may not meet the conditions for controlled diversions in the 'Controlled Diversions' section of this permit, the permittee shall obtain prior written approval from the Department for the scheduled bypass. A permittee's written request for Department approval of a scheduled bypass shall demonstrate that the conditions for bypassing specified in the above section titled 'Bypass' are met and include the proposed date and reason for the bypass, estimated volume and duration of the bypass, alternatives to bypassing and measures to mitigate environmental harm caused by the bypass. The department may require the permittee to provide public notification for a scheduled bypass if it is determined there is significant public interest in the proposed action and may recommend mitigation measures to minimize the impact of such bypass.

### 6.2.8 Controlled Diversions

Controlled diversions are allowed only when necessary for essential maintenance to assure efficient operation. Sewage treatment facilities that have multiple treatment units to treat variable or seasonal loading conditions may shut down redundant treatment units when necessary for efficient operation. The following requirements shall be met during controlled diversions:

- Effluent from the sewage treatment facility shall meet the effluent limitations established in the permit. Wastewater that is diverted around a treatment unit or treatment process during a controlled diversion shall be recombined with wastewater that is not diverted prior to the effluent sampling location and prior to effluent discharge;

- A controlled diversion does not include blending as defined in s. NR 210.03(2e), Wis. Adm. Code, and as may only be approved under s. NR 210.12. A controlled diversion may not occur during periods of excessive flow or other abnormal wastewater characteristics;
- A controlled diversion may not result in a wastewater treatment facility overflow; and
- All instances of controlled diversions shall be documented in sewage treatment facility records and such records shall be available to the department on request.

### 6.2.9 Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training as required in ch. NR 114, Wis. Adm. Code, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

### 6.2.10 Operator Certification

The wastewater treatment facility shall be under the direct supervision of a state certified operator. In accordance with s. NR 114.53, Wis. Adm. Code, every WPDES permitted treatment plant shall have a designated operator-in-charge holding a current and valid certificate. The designated operator-in-charge shall be certified at the level and in all subclasses of the treatment plant, except laboratory. Treatment plant owners shall notify the department of any changes in the operator-in-charge within 30 days. Note that s. NR 114.52(22), Wis. Adm. Code, lists types of facilities that are excluded from operator certification requirements (i.e. private sewage systems, pretreatment facilities discharging to public sewers, industrial wastewater treatment that consists solely of land disposal, agricultural digesters and concentrated aquatic production facilities with no biological treatment).

## 6.3 Sewage Collection Systems

### 6.3.1 Sanitary Sewage Overflows and Sewage Treatment Facility Overflows

#### 6.3.1.1 Overflows Prohibited

Any overflow or discharge of wastewater from the sewage collection system or at the sewage treatment facility, other than from permitted outfalls, is prohibited. The permittee shall provide information on whether any of the following conditions existed when an overflow occurred:

- The sanitary sewer overflow or sewage treatment facility overflow was unavoidable to prevent loss of life, personal injury or severe property damage;
- There were no feasible alternatives to the sanitary sewer overflow or sewage treatment facility overflow such as the use of auxiliary treatment facilities or adequate back-up equipment, retention of untreated wastes, reduction of inflow and infiltration, or preventive maintenance activities;
- The sanitary sewer overflow or the sewage treatment facility overflow was caused by unusual or severe weather-related conditions such as large or successive precipitation events, snowmelt, saturated soil conditions, or severe weather occurring in the area served by the sewage collection system or sewage treatment facility; and
- The sanitary sewer overflow or the sewage treatment facility overflow was unintentional, temporary, and caused by an accident or other factors beyond the reasonable control of the permittee.

### 6.3.1.2 Permittee Response to Overflows

Whenever a sanitary sewer overflow or sewage treatment facility overflow occurs, the permittee shall take all feasible steps to control or limit the volume of untreated or partially treated wastewater discharged, and terminate the discharge as soon as practicable. Remedial actions, including those in s. NR 210.21 (3), Wis. Adm. Code, shall be implemented consistent with an emergency response plan developed under the CMOM program.

### 6.3.1.3 Permittee Reporting

Permittees shall report all sanitary sewer overflows and sewage treatment overflows as follows:

- The permittee shall notify the department by telephone, fax or email as soon as practicable, but no later than 24 hours from the time the permittee becomes aware of the overflow;
- The permittee shall, no later than five days from the time the permittee becomes aware of the overflow, provide to the department the information identified in this paragraph using department form number 3400-184. If an overflow lasts for more than five days, an initial report shall be submitted within 5 days as required in this paragraph and an updated report submitted following cessation of the overflow. At a minimum, the following information shall be included in the report:
    a) The date and location of the overflow;
    b) The surface water to which the discharge occurred, if any;
    c) The duration of the overflow and an estimate of the volume of the overflow;
    d) A description of the sewer system or treatment facility component from which the discharge occurred such as manhole, lift station, constructed overflow pipe, or crack or other opening in a pipe;
    e) The estimated date and time when the overflow began and stopped or will be stopped;
    f) The cause or suspected cause of the overflow including, if appropriate, precipitation, runoff conditions, areas of flooding, soil moisture and other relevant information;
    g) Steps taken or planned to reduce, eliminate and prevent reoccurrence of the overflow and a schedule of major milestones for those steps;
    h) A description of the actual or potential for human exposure and contact with the wastewater from the overflow;
    i) Steps taken or planned to mitigate the impacts of the overflow and a schedule of major milestones for those steps;
    j) To the extent known at the time of reporting, the number and location of building backups caused by excessive flow or other hydraulic constraints in the sewage collection system that occurred concurrently with the sanitary sewer overflow and that were within the same area of the sewage collection system as the sanitary sewer overflow; and
    k) The reason the overflow occurred or explanation of other contributing circumstances that resulted in the overflow event. This includes any information available including whether the overflow was unavoidable to prevent loss of life, personal injury, or severe property damage and whether there were feasible alternatives to the overflow.

    **NOTE:** A copy of form 3400-184 for reporting sanitary sewer overflows and sewage treatment facility overflows may be obtained from the department or accessed on the department's web site at http://dnr.wi.gov/topic/wastewater/SSOreport.html. As indicated on the form, additional information may be submitted to supplement the information required by the form.
- The permittee shall identify each specific location and each day on which a sanitary sewer overflow or sewage treatment facility overflow occurs as a discrete sanitary sewer overflow or sewage treatment facility overflow occurrence. An occurrence may be more than one day if the circumstances causing the sanitary sewer overflow or sewage treatment facility overflow results in a discharge duration of greater than 24 hours.

If there is a stop and restart of the overflow at the same location within 24 hours and the overflow is caused by the same circumstance, it may be reported as one occurrence. Sanitary sewer overflow occurrences at a specific location that are separated by more than 24 hours shall be reported as separate occurrences; and

- A permittee that is required to submit wastewater discharge monitoring reports under s. NR 205.07 (1) (r), Wis. Adm. Code, shall also report all sanitary sewer overflows and sewage treatment facility overflows on that report.

#### 6.3.1.4 Public Notification

The permittee shall notify the public of any sanitary sewer and sewage treatment facility overflows consistent with its emergency response plan required under the CMOM (Capacity, Management, Operation and Maintenance) section of this permit and s. NR 210.23 (4) (f), Wis. Adm. Code. Such public notification shall occur promptly following any overflow event using the most effective and efficient communications available in the community. At minimum, a daily newspaper of general circulation in the county(s) and municipality whose waters may be affected by the overflow shall be notified by written or electronic communication.

### 6.3.2 Capacity, Management, Operation and Maintenance (CMOM) Program

- The permittee shall have written documentation of the Capacity, Management, Operation and Maintenance (CMOM) program components in accordance with s. NR 210.23(4), Wis. Adm. Code. Such documentation shall be available for Department review upon request. The Department may request that the permittee provide this documentation or prepare a summary of the permittee's CMOM program at the time of application for reissuance of the WPDES permit.
- The permittee shall implement a CMOM program in accordance with s. NR 210.23, Wis. Adm. Code.
- The permittee shall at least annually conduct a self-audit of activities conducted under the permittee's CMOM program to ensure CMOM components are being implemented as necessary to meet the general standards of s. NR 210.23(3), Wis. Adm. Code.

### 6.3.3 Sewer Cleaning Debris and Materials

All debris and material removed from cleaning sanitary sewers shall be managed to prevent nuisances, run-off, ground infiltration or prohibited discharges.

- Debris and solid waste shall be dewatered, dried and then disposed of at a licensed solid waste facility.
- Liquid waste from the cleaning and dewatering operations shall be collected and disposed of at a permitted wastewater treatment facility.
- Combination waste including liquid waste along with debris and solid waste may be disposed of at a licensed solid waste facility or wastewater treatment facility willing to accept the waste.

## 6.4 Land Treatment (Land Disposal) Requirements

### 6.4.1 Application of NR 140 to Substances Discharged

This permit does not authorize the permittee to discharge any substance in a concentration which would cause an applicable groundwater standard of ch. NR 140, Wis. Adm. Code, to be exceeded. The Department may seek a response under NR 140 if the permittee's discharge causes an exceedance of an applicable groundwater standard for any substance, including substances not specifically limited or monitored under this permit.

### 6.4.2 Appropriate Formulas for Land Treatment Calculations – Nitrogen & Chloride

The permittee shall use the following formulas for nitrogen and chloride calculations.

### 6.4.2.1 Nitrogen Formulas

Total Nitrogen = Total Kjeldahl Nitrogen + Nitrite + Nitrate, Nitrogen

Organic Nitrogen = Total Kjeldahl Nitrogen - Ammonia Nitrogen

### 6.4.2.2 Annual Total Nitrogen per Cell or per Zone

$$\frac{\text{(annual ave. concentration in mg/L) (tot. annual flow in million gallons per cell or zone) (8.34)}}{\text{acreage of cell or zone}} = \text{lbs/ac/yr}$$

### 6.4.2.3 Annual Total Chloride per Cell or per Zone

$$\frac{\text{(annual ave. concentration in mg/L) (tot. annual flow in million gallons per cell or zone) (8.34)}}{\text{acreage of cell or zone}} = \text{lbs/ac/yr}$$

## 6.4.3 Toxic or Hazardous Pollutants

The discharge of toxic or hazardous pollutants to land treatment systems is prohibited unless the applicant can demonstrate and the department determines that the discharge of such pollutants will be in such small quantities that no detrimental effect on groundwater or surface water will result pursuant to ss. NR 206.07(2)(c) and NR 214.04(1), Wis. Adm. Code. The criteria used shall include but not be limited to the toxicity of the pollutant, capacity of the soil to remove the pollutant, degradability, usual or potential presence of the pollutant in the existing environment, method of application and all other relevant factors.

## 6.4.4 Industrial Waste - Pretreatment Requirements

Industrial waste discharges to municipal land treatment systems shall be in compliance with the applicable pretreatment standards under ch. NR 211, Wis. Adm. Code, pursuant to s. NR 206.07(2)(e), Wis. Adm. Code.

## 6.4.5 Overflow

Discharge to a land treatment system shall be limited so that the discharge and any precipitation which falls within the boundary of the disposal system during such discharge does not overflow the boundary of the system unless the WPDES permit authorizes collection and discharge of runoff to surface water pursuant to s. NR 206.07(2)(g), Wis. Adm. Code.

## 6.4.6 Management Plan Requirements

All land disposal or land treatment systems shall be operated in accordance with an approved management plan. The management plan for municipal and domestic wastewaters shall conform to the requirements of s. NR 110.25(3m), Wis. Adm. Code, per s. NR 206.07(2)(h), Wis. Adm. Code. The management plan for industrial wastewaters shall conform to the applicable requirements of ss. NR 214.12(5)(b), NR 214.13(5)(e), NR 214.14(5)(d), NR 214.15(5)(c), and NR 214.16(5), Wis. Adm. Code.

## 6.4.7 Monthly Average Hydraulic Application Rate

When reporting of the Hydraulic Application Rate is required by this permit, determine the monthly average hydraulic application rate (in gal/acre/day) for each outfall by calculating the total gallons of wastewater applied onto the site for the month, dividing that total by the number of wetted acres loaded during the month, and then dividing this resulting value by the number of days in the month. Enter this calculated monthly average value on the Discharge Monitoring Report form in the box for the last day of the month, in the "Hydraulic Application Rate" column.

## 6.4.8 Nitrogen Loading Requirements for Spray Irrigation

The total annual nitrogen loading (pounds/acre/year) to the wastewater irrigation acreage shall not exceed the limitation contained in the monitoring requirements and limitations for that sampling point, except that the Department may approve (in writing) an alternative nitrogen loading limit in a spray irrigation management plan based on the annual nitrogen needs of the cover crop and the permittee's demonstration of nitrogen losses for the site as specified in s. NR 206.06, Wis. Adm. Code.

### 6.4.9 Runoff

Discharge shall be limited to prevent any runoff of effluent from the spray irrigation site. Wastewater may not be sprayed during any rainfall event that causes runoff from the site, pursuant to s. NR 206.08(2)(b)1,Wis. Adm. Code.

### 6.4.10 Ponding

The volume of discharge to a spray irrigation system shall be limited to prevent ponding, except for temporary conditions following rainfall events, pursuant to s. NR 206.08(2)(b)2, Wis. Adm. Code.

### 6.4.11 Frozen Ground

Spray irrigation onto frozen ground is prohibited, pursuant to s. NR 110.255(2)(a)2, Wis. Adm. Code.

## 6.5 Groundwater Standard Requirements

### 6.5.1 Application of NR 140 to Substances Discharged

This permit does not authorize the permittee to discharge any substance in a concentration which would cause an applicable groundwater standard of ch. NR 140, Wis. Adm. Code, to be exceeded. The Department may seek a response under NR 140 if the permittee’s discharge causes exceedance of an applicable groundwater standard for any substance, including substances not specifically limited or monitored under this permit.

### 6.5.2 Groundwater Sampling

Groundwater sampling shall be performed in accordance with the procedures contained in s. NR 140.16, Wis. Adm. Code, and the WDNR publications, Groundwater Sampling Desk Reference (PUBL-DG-037-96) and Groundwater Sampling Field Manual (PUBL-DG-038-96).

### 6.5.3 Indicator Parameter Preventive Action Limits and Alternative Concentration Limits

The methodology for the assessment of background groundwater quality and calculation of indicator PALs and ACLs can be found in “Calculating Preventive Action Limits and Evaluating Groundwater Quality Exemptions for Groundwater Discharges (3400-2024-04).

### 6.5.4 Groundwater Monitoring Forms

Results of the groundwater analyses shall be summarized and reported on a Groundwater Monitoring Form. This report form is to be returned to the Department no later than the date indicated on the form. A copy of the Groundwater Monitoring Form or an electronic file of the form shall be retained by the permittee. Groundwater monitoring results shall be reported on an electronic Groundwater Monitoring Form and certified electronically via the ‘eReport Certify’ page by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The ‘eReport Certify’ page certifies that the electronic report form is true, accurate and complete.

### 6.5.5 Notification of Attaining or Exceeding Groundwater Quality Standards

The permittee shall notify the Department when monitoring results indicate that a Preventive Action Limit or Enforcement Standard has been attained or exceeded per ss. NR 140.24 (1)(a) and NR 140.26 (1)(a) Wis. Adm. Code. This notification may be provided in the general remarks section of the groundwater monitoring form or by letter attached to the groundwater monitoring form. Any values reported as exceeding a groundwater standard shall be confirmed as being from a representative sample and as a correct laboratory analysis result.

### 6.5.6 Preventive Action Limit (PAL) Exceedance

Sections NR 206.07 (1)(c) and NR 214.07 (1), Wis. Adm. Code, require all land disposal and land treatment system to be designed and operated to prevent exceedances of PALs. Results from groundwater samples that are less than this permit's PALs indicate that operation of the land treatment system is protective of groundwater quality. Substance concentrations that exhibit a trend over time of being greater than the PAL may indicate that additional technically and economically feasible actions are needed to reduce the discharge of the substance to the groundwater. In such a case, the Department may request an evaluation and response or propose a permit modification to require submittal of a groundwater evaluation report and implementation of a feasible response as specified in s. NR 140.24, Wis. Adm. Code.

### 6.5.7 Enforcement Standard (ES) Exceedance Within the Design Management Zone

Substance concentrations greater than this permit's ES in a permittee's monitoring well located within the property boundary and within the design management zone of the land treatment system may indicate that the groundwater concentration exceeds an ES outside of these boundaries. If the Department determines there is reasonable evidence that an ES is being attained or exceeded beyond the property boundary or beyond the design management zone, the Department may request an evaluation and response or propose a permit modification to require an evaluation report and appropriate response as specified in s. NR 140.24, Wis. Adm. Code, per s. NR 140.27, Wis. Adm. Code.

### 6.5.8 Enforcement Standard Exceedance Outside the Design Management Zone

The permittee's land treatment system shall not cause the concentration of a substance in groundwater to attain or exceed this permit's ES at any point of present groundwater use, at any point beyond the property boundary, or at any point beyond the design management zone established under s. NR 140.22, Wis. Adm. Code. When this condition is not met, **the permittee shall, within 120 days following notification to the Department of the attainment or exceedance of an ES beyond the compliance boundary, submit a groundwater quality evaluation and response report** as specified in s. NR 140.26(1)(b), Wis. Adm. Code. The Department may propose modification of this permit to require the permittee to implement additional treatment or other actions as specified in s. NR 140.26, Wis. Adm. Code.

### 6.5.9 New Monitoring Wells Installed During the Current Permit-Term

If the new monitoring well is proposed to act as a background monitoring well for the use in calculating indicator parameter PALs and ACLs, then a minimum of eight rounds of sampling results are required prior to the calculation of indicator parameter PALs and ACLs for inclusion in a modified permit. The methodology and requirements for the assessment of background groundwater quality and calculation of indicator PALs and ACLs can be found in Evaluating and Calculating Preventative Action Limits and Alternative Concentration Limits for Groundwater Discharges (3400-2020-10).

## 6.6 Land Application Requirements

### 6.6.1 Sludge Management Program Standards And Requirements Based Upon Federally Promulgated Regulations

In the event that new federal sewage sludge standards or regulations are promulgated, the permittee shall comply with the new sewage sludge requirements by the dates established in the regulations, if required by federal law, even if the permit has not yet been modified to incorporate the new federal regulations.

## 6.6.2 General Sludge Management Information

The General Sludge Management Form 3400-48 shall be completed and submitted prior to any significant sludge management changes.

## 6.6.3 Sludge Samples

All sludge samples shall be collected at a point and in a manner which will yield sample results which are representative of the sludge being tested, and collected at the time which is appropriate for the specific test.

## 6.6.4 Land Application Characteristic Report

Each report shall consist of a Characteristic Form 3400-49 and Lab Report. The Characteristic Report Form 3400-49 shall be submitted electronically by January 31 following each year whether or not samples are analyzed. In years in which monitoring does not occur, the report shall be completed by checking on the form that monitoring/land application did not occur.

Following submittal of the electronic Characteristic Report Form 3400-49, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report is true, accurate and complete. The Lab Report must be sent directly to the facility's DNR sludge representative or basin engineer unless approval for not submitting the lab reports has been given.

The permittee shall use the following convention when reporting sludge monitoring results: Pollutant concentrations less than the limit of detection shall be reported as < (less than) the value of the limit of detection. For example, if a substance is not detected at a detection limit of 1.0 mg/kg, report the pollutant concentration as < 1.0 mg/kg .

All results shall be reported on a dry weight basis.

## 6.6.5 Calculation of Water Extractable Phosphorus

When sludge analysis for Water Extractable Phosphorus is required by this permit, the permittee shall use the following formula to calculate and report Water Extractable Phosphorus:
Water Extractable Phosphorus (% of Total P) =
[Water Extractable Phosphorus (mg/kg, dry wt) ÷ Total Phosphorus (mg/kg, dry wt)] x 100

## 6.6.6 Annual Land Application Report

Land Application Report Form 3400-55 shall be submitted electronically by January 31, each year whether or not non-exceptional quality sludge is land applied. Non-exceptional quality sludge is defined in s. NR 204.07(4), Wis. Adm. Code. Following submittal of the electronic Annual Land Application Report Form 3400-55, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report form is true, accurate and complete.

## 6.6.7 Other Methods of Disposal or Distribution Report

The permittee shall submit electronically the Other Methods of Disposal or Distribution Report Form 3400-52 by January 31, each year whether or not sludge is hauled, landfilled, incinerated, or exceptional quality sludge is distributed or land applied. Following submittal of the electronic Report Form 3400-52, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2, Wis. Adm. Code. The 'eReport Certify' page certifies that the electronic report form is true, accurate and complete.

## 6.6.8 Approval to Land Apply

Bulk non-exceptional quality sludge as defined in s. NR 204.07(4), Wis. Adm. Code, may not be applied to land without a written approval letter or Form 3400-122 from the Department unless the Permittee has obtained permission from the Department to self-approve sites in accordance with s. NR 204.06(6), Wis. Adm. Code. Analysis of sludge characteristics is required prior to land application. Application on frozen or snow-covered ground is restricted to the extent specified in s. NR 204.07(3)(l), Wis. Adm. Code.

## 6.6.9 Soil Analysis Requirements

Each site requested for approval for land application must have the soil tested prior to use. Each approved site used for land application must subsequently be soil tested such that there is at least one valid soil test in the four years prior to land application. All soil sampling and submittal of information to the testing laboratory shall be done in accordance with UW Extension Bulletin A-2100. The testing shall be done by the UW Soils Lab in Madison or Marshfield, WI or at a lab approved by UW. The test results including the crop recommendations shall be submitted to the DNR contact listed for this permit, as they are available. Application rates shall be determined based on the crop nitrogen recommendations and with consideration for other sources of nitrogen applied to the site.

## 6.6.10 Land Application Site Evaluation

For non-exceptional quality sludge, as defined in s. NR 204.07(4), Wis. Adm. Code, a Land Application Site Request Form 3400-053 shall be submitted to the Department for the proposed land application site. The Department will evaluate the proposed site for acceptability and will either approve or deny use of the proposed site. The permittee may obtain permission to approve their own sites in accordance with s. NR 204.06(6), Wis. Adm. Code.

## 6.6.11 Class B Sludge: Fecal Coliform Limitation

Compliance with the fecal coliform limitation for Class B sludge shall be demonstrated by calculating the geometric mean of at least 7 separate samples. (Note that a Total Solids analysis must be done on each sample). The geometric mean shall be less than 2,000,000 MPN or CFU/g TS. Calculation of the geometric mean can be done using one of the following 2 methods.

Method 1:

Geometric Mean = $(X_1 \times X_2 \times X_3 \ldots \times X_n)^{1/n}$

Where X = Coliform Density value of the sludge sample, and where n = number of samples (at least 7)

Method 2:

Geometric Mean = $\text{antilog}[(X_1 + X_2 + X_3 \ldots + X_n) \div n]$

Where X = $\log_{10}$ of Coliform Density value of the sludge sample, and where n = number of samples (at least 7)

Example for Method 2

| Sample Number | Coliform Density of Sludge Sample | $\log_{10}$ |
|---|---|---|
| 1 | $6.0 \times 10^5$ | 5.78 |
| 2 | $4.2 \times 10^6$ | 6.62 |
| 3 | $1.6 \times 10^6$ | 6.20 |
| 4 | $9.0 \times 10^5$ | 5.95 |
| 5 | $4.0 \times 10^5$ | 5.60 |
| 6 | $1.0 \times 10^6$ | 6.00 |
| 7 | $5.1 \times 10^5$ | 5.71 |

The geometric mean for the seven samples is determined by averaging the $\log_{10}$ values of the coliform density and taking the antilog of that value.

$(5.78 + 6.62 + 6.20 + 5.95 + 5.60 + 6.00 + 5.71) \div 7 = 5.98$

The antilog of $5.98 = 9.5 \times 10^5$

## 6.6.12 Class B Sludge - Vector Control: Injection

No significant amount of the sewage sludge shall be present on the land surface within one hour after the sludge is injected.

## 6.6.13 Class B Sludge - Vector Control: Incorporation

Class B sludge shall be incorporated within 6 hours of surface application, or as approved by the Department.

## 6.6.14 Landfilling of Sludge

General: Sewage sludge may not be disposed of in a municipal solid waste landfill unless the landfill meets the requirements of chs. NR 500 to 536, Wis. Adm. Code, and is an approved facility as defined in s. 289.01(3), Wis. Stats. Any facility accepting sewage sludge shall be approved by the Department in writing to accept sewage sludge. Disposal of sewage sludge in a municipal solid waste landfill shall be in accordance with ss. NR 506.13 and 506.14. Sewage sludge may not be disposed of in a surface disposal unit as defined in s. NR 204.03(63).

Approval: The permittee shall obtain approval from the Department prior to the disposal of sludge at a Wisconsin licensed landfill.

## 6.6.15 Sludge Landfilling Reports

The permittee shall report the volume of sludge disposed of at any landfill facility on Form 3400-52. The permittee shall include the name and address of the landfill, the Department license number or other state's designation or license number for all landfills used during the report period and a letter of acceptability from the landfill owner. In addition, any permittee utilizing landfills as a disposal method shall submit to the Department any test results used to indicate acceptability of the sludge at a landfill. Form 3400-52 shall be submitted annually by January 31, each year whether or not sludge is landfilled.

## 6.6.16 Sludge Hauling

The permittee is required to submit Form 3400-52 to the Department. If sludge is hauled to another facility, information shall include the quantity of sludge hauled, the name, address, phone number, contact person, and permit number of the receiving facility. Form 3400-52 shall be submitted annually by January 31 each year whether or not sludge is hauled.

# 7 Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

| Description | Date | Page |
|---|---|---|
| Sludge Depth -Sludge Depth | January 1, 2028 | 15 |
| Sludge Depth -Sludge Depth | January 1, 2029 | 15 |
| Sludge Depth -Sludge Depth | January 1, 2030 | 15 |
| Sludge Depth -Sludge Depth | January 1, 2031 | 15 |
| Land Treatment Management Plan -Land Treatment Management Plan Submittal | January 1, 2028 | 15 |
| Sludge Management Plan -Submit a Sludge Management Plan | See Permit | 15 |
| Compliance Maintenance Annual Reports (CMAR) | by June 30, each year | 18 |
| General Sludge Management Form 3400-48 | prior to any significant sludge management changes | 27 |
| Characteristic Form 3400-49 and Lab Report | by January 31 following each year whether or not samples are analyzed | 27 |
| Land Application Report Form 3400-55 | by January 31, each year whether or not non-exceptional quality sludge is land applied | 27 |
| Other Methods of Disposal or Distribution Report Form 3400-52 | by January 31, each year whether or not sludge is hauled, landfilled, incinerated, or exceptional quality sludge is distributed or land applied | 27 |
| Groundwater Monitoring Form | no later than the date indicated on the form | 25 |
| Wastewater Discharge Monitoring Report | no later than the date indicated on the form | 16 |

Report forms shall be submitted electronically in accordance with the reporting requirements herein. Any facility plans or plans and specifications for municipal, industrial, industrial pretreatment and non industrial wastewater systems shall be submitted to the Bureau of Water Quality, P.O. Box 7921, Madison, WI 53707-7921. All other submittals required by this permit shall be submitted to: West Central Region - Wausau, 225051 Rib Mountain Dr, Wausau, WI 54401.