WPDES PERMIT

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

PERMIT TO DISCHARGE UNDER THE WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM

Bytec Resource Management Inc Monroe

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to discharge from a facility located at

1037 8th Ave West, Monroe, WI 53566

to

Groundwaters of the State via approved landspreading sites primarily in the counties of: Dane, Dodge, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, and Sauk

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 _____
Jason Knutson, P.E.
Wastewater Section Manager

_____
Date Permit Signed/Issued

PERMIT TERM: EFFECTIVE DATE - October 01, 2023 **EXPIRATION DATE – September 30, 2028**
MODIFICATION #1 EFFECTIVE DATE – August 01, 2024

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707	Inflow to storage of industrial liquid wastewater from Client 607 (Industrial Liquid Waste).
718	Inflow to storage of carbohydrates processing wastewater from Client 618 (Industrial Liquid Waste).
720	Inflow to storage of cheese manufacturing wastewater from Client 620 (Industrial Liquid Waste).
721	Inflow to storage of dairy product processing permeate of whey from Client 621 (Industrial Liquid Waste).
726	Inflow to storage of rinsewater from Client 626 (Industrial Liquid Waste).
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Sampling Point Designation	
Sampling Point Number	**Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)**
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791	Inflow to storage of wastewater from Client 691 (Industrial Liquid Waste).
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1.2 New Waste Stream Requirements

This section applies to any new client waste stream requested during the term of the permit. The requirements of this section do not apply to new septage wastes. For each new waste material that was not previously identified with the permit reissuance application and approved as either a sampling point or direct outfall (or both) in this permit, the permittee shall provide to the department the information required in this subsection to identify the source and characteristics of the new waste material. Except as provided in ss. 1.2.1, the permittee shall not accept, handle, discharge to a storage structure, or land apply any new waste material until department written approval has been granted and the waste has been assigned a sampling point or outfall number (or both) by the department.

The following shall be submitted to characterize each new waste material and source that has not been identified in the permit application.

1. The proposed confidential client number or name, for each new client, customer, or waste generator. If an independent trucking company is transporting waste material to the permittee' s facility, then the name of this company must also be submitted. A supplement to the client confidential list, which includes client number, name, address and contact person information (email and phone number), and waste profile sheet shall be provided under separate cover.

2. The type(s) of waste material (e.g., treatment plant sewage sludge, industrial liquid waste, industrial sludge, by-product solids, septage etc.) and industrial category (including SIC code, if applicable), along with a certification signed by the generator's representative indicating the waste is as described.

3. Potential sources of domestic waste within industrial waste stream (if applicable).

4. A detailed description of the treatment system, industrial process from which each individual waste material originates (if applicable), regardless of the volume of the material. Also include, if applicable: if the client has a WPDES Permit, whether or not it is a unique, short-term project (such as lagoon desludging, digester cleanout), and any other relevant information which will aid the DNR in reviewing the new clients in a timely manner.

5. SDS sheets for any specific chemicals that could reasonably be expected to be present in their original state in the waste material.

6. For each client, customer or generator, the annual volume of each waste material type anticipated to be received, the expected frequency received, volume per receipt event, and period of the year it will be received.

7. A description of the manner in which each waste material from each client, customer or waste generator will be processed and discharged under this permit, including whether the waste will be applied directly on land under this permit, or if it will be co-mingled with other wastes in a storage facility(s), and which storage facility(s) the waste may be stored in.

8. Laboratory analyses (from a certified or registered laboratory) shall be performed to characterize the chemical composition of the material. An analysis shall be performed on every waste material from each waste generator for the following:

   COD, pH, TKN, Organic Nitrogen, Ammonia Nitrogen, Total Phosphorus, Chloride, and Potassium. Include 'Total Solids' for sludge and other solid or semi-solid material.

   Where it is believed that waste material may contain any of the substances shown immediately below or listed in Attachment 1 of this permit analyses shall be submitted for those substances.

   Arsenic, Cadmium, Copper, Fecal Coliform, Lead, Mercury, Molybdenum, Nickel, Selenium, Zinc, and Radium-226

   In addition, if any waste material is received from a Primary Industry listed in Attachment 2 of this permit the results of a pollutant scan of that waste material for the applicable pollutant group shown in Attachment 2 shall be submitted. Analytical results shall be provided on a wet weight basis for liquid wastes and on a dry weight basis for sludge and other solid or semi-solid material.

9. Information that demonstrates that the land application of the waste material or the mixture of waste materials from a storage or treatment unit will be beneficial as a source of nutrients or a soil amendment or conditioner and not be detrimental to soils, crops or groundwater.

10. Verification that the new waste is not hazardous under NR 518, Wis. Adm. Code.

Based on the information provided, the department may request additional information on the quality or content of the material being proposed for storage or direct land application under this permit. Upon written approval of a new waste, the department will assign a sampling point number or outfall number (or both) for the type of waste.

Prior to land applying any new waste material from storage or direct land application, the permittee shall submit and obtain department approval of an amended management plan. The amended plan shall include the department sampling point number or outfall number (or both) that was assigned to the newly approved waste. The department's approval of the amended management plan may designate an outfall number for the land application of the waste material and require additional monitoring to protect groundwater. If additional monitoring is required by the department, the permittee shall request a permit modification.

When reporting the volume of waste received for any new clients that have not yet been added to that month's eDMR, the permittee shall report this volume in the 'comments' section. In addition to the volume, the permittee shall provide the proposed client number and the storage unit in which the waste was stored (if applicable).

1.2.1 New Food Processing Wastes

The permittee may discharge new food processing wastes to a storage structure or pad and land apply these wastes from the structure without department pre-approval if the wastes are not hazardous as defined in Chapter NR 214. The permittee shall submit a request for approval for storage and land application of new food processing wastes within 30 days of the date the wastes were discharged to the storage structure. The request for approval shall contain the sample analysis and analytical report specified below, a record of the total volume of the new food processing wastes, and the specific storage structure or pad containing the wastes. If a food processing waste is not subsequently approved by the department in accordance with ch. NR 214, future volumes of the waste may not be stored or land applied under this permit.

Immediately prior to discharge of any new food processing wastes into a storage structure, the permittee shall take a representative sample of the material. The sample shall be analyzed in accordance with the requirements in s. 1.2 and the analysis of the new material shall be submitted to the department within 30 days from the date the sample was taken. The sample and analytical report shall identify the client name and number and specific storage structure or pad that received the waste as well as the volume of waste received.

For the purposes of this section, food processing wastes means wastes associated with processing grains, dairy, fruits, vegetables, sugars, meats (except slaughtering), food flavorings and beverages. **Food processing waste does not include any waste associated with ethanol production.** If the permittee is uncertain as to whether a waste is a food processing waste, the permittee shall contact department staff for clarification.

1.3 Updated Characteristic Sampling Data

1.3.1 With Permit Application

The permittee shall submit updated characteristic sampling data with the next permit reissuance application for any industrial influent waste stream client that only has sampling data that is older than the effective date of this WPDES permit. A reissuance application is due 180 days prior to the expiration date of this permit. See section 1.2 above for the sampling parameters that would need to be submitted.

1.3.2 Changes to Existing Clients

The permittee shall notify the department in writing within 30 days of becoming aware of changes in the quality of waste from an approved client that may impact the type and/or characteristics of the waste that is received. Changes that may affect the quality of the client's waste include but are not limited to: operational/process changes that affect the pollutants present in the waste, problems with the client's treatment technologies, updated treatment technologies, or changes that affect the type of waste produced. After receiving notification, the department will evaluate the change in characteristics and may require further sampling of the influent if warranted.

1.4 Influent Monitoring Requirements

This section contains requirements for tracking all waste placed in storage. When waste from a client is received or collected and placed in a storage structure, the permittee shall monitor and record the volume of waste, the type of waste received, the storage structure or pad that received the waste, and maintain logs as required below. On a monthly basis, the permittee shall report the volume of each type of waste that has been accepted as well as the approved sampling point number on the electronic Discharge Monitoring Report. The permittee shall comply with the following monitoring requirements.

1.4.1 Sampling Point 702 - Client 602; 704- Client 604; 707- Client 607; 718- Client 618; 720- Client 620; 721- Client 621; 726- Client 626; 728- Client 628; 730- Client 630; 733- Client 633; 735- Client 635; 736- Client 636; 741- Client 641; 743- Client 643; 747- Client 647; 752- Client 652; 755- Client 655; 757- Client 657; 758- Client 658; 759- Client 659; 760- Client 660; 764- Client 664; 765- Client 665; 767- Client 667; 768- Client 668; 770- Client 670; 773- Client 673; 780- Client 680; 782- Client 682; 784- Client 684; 787- Client 687; 788- Client 688; 791- Client 691; 796- Client 696, and 798- Client 698

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Industrial Liquid Waste		gal/month	Monthly	Measure	

1.4.2 Sampling Point 734 - Client 634; 739- Client 639; 756- Client 656; 778- Client 678; 783- Client 683, and 789- Client 689

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Industrial Liquid Sludge		gal/month	Monthly	Measure	

1.4.3 Influent Volume Monitoring

Volume monitoring and reporting on monthly eDMRs is only required during months when wastes from a sampling point are discharged into any of the storage structures.

1.4.4 Influent Monitoring Requirements – Discharge to Storage

The permittee shall record and maintain a daily log of the volume of waste material received for each sampling point identified in this permit, and all subsequent sampling points approved during this permit term and discharged to a storage or treatment unit. The log shall include a record of the client name, the type of waste, the volume and any characterization of the waste, the date of addition and to which storage or treatment unit it was discharged. For each truck load received from a new waste generator that does not have an established contract with the permittee, the permittee shall obtain from its client a written verification of the waste type and maintain this as part of the records. If an independent trucking company is transporting the waste to the permittee's facility, the name of the trucking company must also be recorded. When a truckload contains more than one type of waste, the volume of each waste type shall be noted. These logs shall be retained in accordance with s. 4.4 of this permit.

2 Storage Structure Land Application Requirements

2.1 Sampling Point(s)

Sampling Point Designation	
Sampling Point Number	**Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)**
013	Jantzen Tank (500,000 gal). Located at SW 1/4, SW 1/4, S29, T3N, R2E, Twp Kendall, Lafayette County. Industrial waste is stored in tank. No manure is stored in tank. No municipal biosolids or septage is allowed in the tank (Industrial Liquid Waste, Industrial Liquid Sludge).
113	Schmidt Tank (500,000 gal). Located at SW 1/4, NW 1/4, S29, T9N, R2E, Twp Buena Vista, Richland County. Industrial waste is stored in tank. No manure is stored in tank. No municipal biosolids or septage is allowed in the tank (Industrial Liquid Waste, Industrial Liquid Sludge).
221	Argyle Site Tank (1,500,000 gal). Located at SE 1/4, NW 1/4, S24, T3N, R6E, Twp Adams, Green County. Industrial waste is stored in tank. No manure is stored in the tanks. No municipal biosolids or septage is allowed in the tank. Note: This tank was previously Sample Point 021 (Industrial Liquid Waste, Industrial Liquid Sludge).
222	Venhuizen Tank (500,000 gal). Located at SE 1/4, NE 1/4, S23, T9N, R1W, Twp Eagle, Richland County. Industrial waste is stored in tank. No manure is stored in tank. No municipal biosolids or septage is allowed in the tank. Note: This tank was previously Sample Point 022 (Industrial Liquid Waste, Industrial Liquid Sludge).
224	Land application of industrial liquid wastes from 0.5MG stainless steel EQ Tank. No manure is stored in tank. Location: SW 1/4 SW 1/4 S25 T02N R07E (Industrial Liquid Waste, Industrial Liquid Sludge).
225	Reichling Tank (900,000 gal). Located at NW 1/4, NE 1/4, S28, T6N, R4E, Twp Ridgeway, Iowa County. No manure is stored in tank. No municipal biosolids or septage are allowed in the tank. Land application of industrial liquid waste and sludge from 0.9 MG steel, glass-lined storage structure known as the 'Reichling Tank' (Industrial Liquid Waste, Industrial Liquid Sludge).
226	Redwood Rd Farm Tank (15MG). Land application of commingled industrial liquid waste and sludge from 15MG concrete-lined storage structure, located at NW 1/4, NE 1/4, S01, T12N, R14E in Trenton, WI (Industrial Liquid Waste, Industrial Liquid Sludge).

2.2 Land Application from Storage

Prior to any land application from a storage or treatment unit, representative sample results shall be available from the storage or treatment unit for the parameters shown in the monitoring table for the respective outfalls. During land application, samples shall be collected and analyzed for the parameters at the frequency shown in the monitoring table for the respective outfalls, or as modified for new waste material in an approved management plan. The most recent analytical data shall be used to establish land application rates to ensure compliance with permit limits. Sampling procedures shall be addressed in the approved management plan.

2.3 Monitoring Requirements and Limitations

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

2.3.1 Sampling Point 013 - Jantzen Tank; 113- Schmidt Tank; 222- Venhuizen Tank; 224- EQ Tank, 225- Reichling Tank, and 226- Redwood Rd Farm Tank

The permittee shall comply with the following monitoring requirements and limitations for these liquid industrial sludge and industrial liquid waste outfalls. The permittee may only land apply the type of waste approved for these outfalls on approved sites. Additional requirements for these outfalls are included in this section and other sections below. Sampling is only required during periods of active discharge.

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/month	Monthly	Measure	Industrial Liquid Waste and Industrial Liquid Sludge.
Solids, Total		Percent	Monthly	Composite	
Nitrogen, Total Kjeldahl		mg/L	Monthly	Composite	
Nitrogen, Ammonia (NH_3-N) Total		mg/L	Monthly	Composite	
Phosphorus, Total		mg/L	Monthly	Composite	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Composite	
Potassium, Total Recoverable		mg/L	Monthly	Composite	
pH Field		su	Monthly	Grab	
COD		mg/L	Monthly	Composite	
Chloride		mg/L	Monthly	Composite	

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**
Date	-	Date	Daily	Log
DNR Site Number(s)	-	Number	Daily	Log
Acres Applied	-	Acres	Daily	Log
Frozen Site Maximum Daily Loading Volume	6,800	Gal/Acre/Day	Daily	Calculated
Unfrozen Site Maximum Daily Loading Volume	13,500	Gal/Acre/Day	Daily	Calculated
Weekly Loading Volume	See NR 214 - Tbl 3	Inches/Week	Weekly	Calculated

Annual Report – Summary of Monitoring Requirements and Limitations The Annual Report is due by January 31st of each year for the previous calendar year. See the 'Annual Land Application Report' subsection in Standard Requirements.				
Parameters	**Limit**	**Units**	**Reporting Frequency**	**Sample Type**
DNR Site Number(s)	-	Number	-	-
Acres Land Applied	-	Acres	Annual	-
Total Volume Per Site	-	Gallons	Annual	Total Annual
Total Kjeldahl Nitrogen per Site	165, or alternate approved in writing	Pounds/Acre/Year	Annual	Calculated
Total Chloride per Site	340	Pounds/Acre per 2 Years	Annual	Calculated

2.3.1.1 Annual Site Nitrogen Loading

For details on nitrogen loading requirements, including approval of an alternate nitrogen pounds/acre/year site loading, see the "Nitrogen Requirements for Liquid Wastes, By-Product Solids and Sludges" paragraph in the Standard Requirements section of this permit.

2.3.1.2 Biennial Site Chloride Loading

For details on chloride requirements see the "Chloride Requirements for Liquid Wastes and By-Product Solids" paragraph in the Standard Requirements section of this permit.

2.3.1.3 Other Land Application Requirements

Refer to s. 4 below and the standard requirements for other applicable requirements for these outfalls.

2.3.2 Sampling Point 221 - Argyle Tank

The permittee shall comply with the following monitoring requirements and limitations for this industrial liquid sludge and industrial liquid waste outfall. The permittee may only land apply the type of waste approved for this outfall on approved sites. Additional requirements for this outfall are included in this section and other sections below. Sampling is only required during periods of active discharge.

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/month	Monthly	Measure	Industrial Liquid Waste and Industrial Liquid Sludge.
Solids, Total		Percent	Weekly	Composite	
Nitrogen, Total Kjeldahl		mg/L	Weekly	Composite	
Nitrogen, Ammonia (NH_3-N) Total		mg/L	Weekly	Composite	
Phosphorus, Total		mg/L	Weekly	Composite	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Composite	

Potassium, Total Recoverable		mg/L	Weekly	Composite	
pH Field		su	Weekly	Grab	
COD		mg/L	Weekly	Composite	
Chloride		mg/L	Weekly	Composite	

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
Date	-	Date	Daily	Log
DNR Site Number(s)	-	Number	Daily	Log
Acres Applied	-	Acres	Daily	Log
Frozen Site Maximum Daily Loading Volume	6,800	Gal/Acre/Day	Daily	Calculated
Unfrozen Site Maximum Daily Loading Volume	13,500	Gal/Acre/Day	Daily	Calculated
Weekly Loading Volume	See NR 214 - Tbl 3	Inches/Week	Weekly	Calculated

Annual Report – Summary of Monitoring Requirements and Limitations

The Annual Report is due by January 31st of each year for the previous calendar year. See the 'Annual Land Application Report' subsection in Standard Requirements.

Parameters	Limit	Units	Reporting Frequency	Sample Type
DNR Site Number(s)	-	Number	-	-
Acres Land Applied	-	Acres	Annual	-
Total Volume Per Site	-	Gallons	Annual	Total Annual
Total Kjeldahl Nitrogen per Site	165, or alternate approved in writing	Pounds/Acre/Year	Annual	Calculated
Total Chloride per Site	340	Pounds/Acre per 2 Years	Annual	Calculated

2.3.2.1 Reduction in Monitoring Frequency

If after a minimum of 6 months of sampling the discharge from Sample Point 221, Bytec submits a request that demonstrates there is no more than a 10% deviation of the individual weekly samples from the average results for a

parameter(s), the Department will approve a reduction in the monitoring frequency to monthly for the parameter(s). This reduction will be addressed through a modification of the Land Application Management Plan and this WPDES permit.

2.3.2.2 Annual Site Nitrogen Loading

For details on nitrogen loading requirements, including approval of an alternate nitrogen pounds/acre/year site loading, see the "Nitrogen Requirements for Liquid Wastes, By-Product Solids and Sludges" paragraph in the Standard Requirements section of this permit.

2.3.2.3 Biennial Site Chloride Loading

For details on chloride requirements see the "Chloride Requirements for Liquid Wastes and By-Product Solids" paragraph in the Standard Requirements section of this permit.

2.3.2.4 Other Land Application Requirements

Refer to s. 4 below and the standard requirements for other applicable requirements for this outfall.

3 Direct Land Application Requirements

3.1 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, WasteType/Sample Contents and Treatment Description (as applicable)**
602	Direct land application of industrial wastewater from Client 602 (Industrial Liquid Waste).
604	Dairy plant wastewater and other wastewater directly land applied from Client 604 (industrial liquid waste).
607	Cheese plant waste directly land applied from Client 607 (industrial liquid waste).
618	Direct land application of carbohydrates processing wastewater from Client 618 (Industrial Liquid Waste).
620	Cheese manufacturing wastewater directly land applied from Client 620 (Industrial Liquid Waste).
621	Dairy product processing permeate of whey directly land applied from client 621 (Industrial Liquid Waste).
626	Rinsewater directly land applied from Client 626 (Industrial Liquid Waste).
628	Dairy product processing permeate of whey directly land applied from Client 628 (Industrial Liquid Waste).
630	Dairy product processing permeate of whey and other wastewaters directly land applied from Client 630 (Industrial Liquid Waste).
633	Dairy product processing whey and other wastewater directly land applied from Client 633 (Industrial Liquid Waste) .
634	Land Application of DAF sludge from cheese processing client 634 (Industrial Liquid Sludge).
635	Wastewater from the manufacture of dry, condensed or evaporated dairy products directly land applied from Client 635 (Industrial Liquid Waste).
636	Wastewater from the manufacture of cheese products directly land applied from Client 636 (Industrial Liquid Waste).
639	Cheese manufacturing sludge directly land applied from Client 639 (Industrial Liquid Sludge).
641	Milk processing wastewater directly land applied from Client 641 (Industrial Liquid Waste).
643	Wastewater from production of beverages directly land applied from client 643 (Industrial Liquid Waste).
647	Dairy product processing whey and other wastewater directly land applied from client 647 (Industrial Liquid Waste).
652	Industrial wastewater (distillate rinse water) from winery directly land applied from Client 652 (Industrial Liquid Waste).
655	Dairy product processing permeate of whey and other wastewater directly land applied from Client 655 (Industrial Liquid Waste).
656	Dairy processing sludge directly land applied from client 656 (Industrial Liquid Sludge).
657	Dairy product processing permeate of whey directly land applied from Client 657 (Industrial Liquid Waste).
658	Industrial wastewater from condensed whey directly land applied from Client 658 (Industrial Liquid Waste).
659	Industrial wastewater directly land applied from Client 659 (Industrial Liquid Waste).
660	Cheese manufacturing wastewater directly land applied from Client 660 (Industrial Liquid Waste).

Sampling Point Designation	
Sampling Point Number	**Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)**
664	Direct land application of food processing wastewater for Client 664 (Industrial Liquid Waste).
665	Animal food manufacturing wastewater directly land applied from Client 665 (Industrial Liquid Waste).
667	Dairy product processing wastewater and permeate of whey directly land applied from Client 667 (Industrial Liquid Waste).
668	Cheese manufacturing wastewater directly land applied from client 668 (Industrial Liquid Waste).
670	Cheese manufacturing wastewater directly land applied from Client 670 (Industrial Liquid Waste).
673	Cheese manufacturing wastewater directly land applied from Client 673 (Industrial Liquid Waste).
678	Liquid industrial sludge directly land applied from Client 678 (Industrial Liquid Sludge).
680	Cheese manufacturing wastewater directly land applied from Client 680 (Industrial Liquid Waste).
682	Dairy product processing permeate of whey directly land applied from Client 682 (Industrial Liquid Waste).
683	Land Application of DAF Sludge from cheese processing client 683 (Industrial Liquid Sludge).
684	Land application of industrial liquid waste from Dairy processing client 684 (Industrial Liquid Waste).
687	Food processing wastewater directly land applied from Client 687 (Industrial Liquid Waste).
688	Pre-treated wastes from food processing directly land applied from Client 688 (Industrial Liquid Waste).
689	Direct land application of sludge from Client 689 (Industrial Liquid Sludge).
691	Food processing and rinse water directly land applied from Client 690 (Industrial Liquid Waste).
696	Food processing wastewater directly land applied from Client 696 (Industrial Liquid Waste).
698	Cheese manufacturing wastewater directly land applied from Client 698 (Industrial Liquid Waste).

3.2 Monitoring Requirements and Limitations

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

3.2.1 Direct Land Application

Representative samples shall be taken of the waste material from each direct application outfall at least quarterly during which land application occurs. The samples shall be analyzed for the parameters at the frequency specified in Tables 3.2.2 through 3.2.4. Prior to discharge of waste to approved sites, the permittee shall provide in writing to the owner of the site the most recent data from any required monitoring and the volume of waste to be discharged.

3.2.2 Sampling Point (Outfall) 602 - DLA: Client 602; 604- DLA: Client 604; 607- DLA: Client 607; 618- DLA: Client 618; 620- DLA: Client 620; 621- DLA: Client 621; 626- DLA: Client 626; 628- DLA: Client 628; 630- DLA: Client 630; 633- DLA: Client 633; 636- DLA: Client 636 ; 641- DLA: Client 641; 643- DLA: Client 643; 652- DLA: Client 652; 655- DLA: Client 655; 657- DLA: Client 657; 659- DLA: Client 659; 664- DLA: Client 664; 667- DLA: Client 667; 668- DLA: Client 668; 673- DLA: Client 673; 684- DLA: Client 684; 687- DLA: Client 687; 688- DLA: Client 688; 691- DLA: Client 691; 696- DLA: Client 696, and 698- DLA: Client 698

The permittee shall comply with the monitoring requirements and limitations and other applicable sections below for

the listed outfalls and for other direct land application outfalls approved by the department during the term of the permit. The permittee shall not directly land apply any waste under this permit unless department approval has been granted with a designated outfall.

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/month	Monthly	Measure	Direct Land Application: Industrial Liquid Waste
Solids, Total		Percent	Quarterly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Quarterly	Grab	
Nitrogen, Ammonia (NH_3-N) Total		mg/L	Quarterly	Grab	
Phosphorus, Total		mg/L	Quarterly	Grab	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Grab	
Potassium, Total Recoverable		mg/L	Quarterly	Grab	
pH Field		su	Quarterly	Grab	
COD		mg/L	Quarterly	Grab	
Chloride		mg/L	Quarterly	Grab	

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**
Date	-	Date	Daily	Log
DNR Site Number(s)	-	Number	Daily	Log
Acres Applied	-	Acres	Daily	Log
Frozen Site Maximum Daily Loading Volume	6,800	Gal/Acre/Day	Daily	Calculated
Unfrozen Site Maximum Daily Loading Volume	13,500	Gal/Acre/Day	Daily	Calculated
Weekly Loading Volume	See NR 214 - Tbl 3	Inches/Week	Weekly	Calculated

Annual Report – Summary of Monitoring Requirements and Limitations The Annual Report is due by January 31st of each year for the previous calendar year. See the 'Annual Land Application Report' subsection in Standard Requirements.				
Parameters	**Limit**	**Units**	**Reporting Frequency**	**Sample Type**
DNR Site Number(s)	-	Number	-	-
Acres Land Applied	-	Acres	Annual	-
Total Volume Per Site	-	Gallons	Annual	Total Annual
Total Kjeldahl Nitrogen per Site	165, or alternate approved in writing	Pounds/Acre/Year	Annual	Calculated
Total Chloride per Site	340	Pounds/Acre per 2 Years	Annual	Calculated

3.2.2.1 Annual Site Nitrogen Loading

For details on nitrogen loading requirements, including approval of an alternate nitrogen pounds/acre/year site loading, see the "Nitrogen Requirements for Liquid Wastes, By-Product Solids and Sludges" paragraph in the Standard Requirements section of this permit.

3.2.2.2 Biennial Site Chloride Loading

For details on chloride requirements see the "Chloride Requirements for Liquid Wastes and By-Product Solids" paragraph in the Standard Requirements section of this permit.

3.2.2.3 Other Land Application Requirements

Refer to s. 4 below and the standard requirements for other applicable requirements for these outfalls.

3.2.3 Sampling Point (Outfall) 634 - DLA: Client 634; 639- DLA: Client 639; 656- DLA: Client 656; 678- DLA: Client 678; 683- DLA: Client 683, and 689- DLA: Client 689

The permittee shall comply with the monitoring requirements and limitations and other applicable sections below for the listed outfalls and for other direct land application outfalls approved by the department during the term of the permit. The permittee shall not directly land apply any waste under this permit unless department approval has been granted with a designated outfall.

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/month	Monthly	Measure	Direct Land Application: Industrial Liquid Sludge
Solids, Total		Percent	Quarterly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Quarterly	Grab	
Nitrogen, Ammonia (NH_3-N) Total		mg/L	Quarterly	Grab	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Phosphorus, Total		mg/L	Quarterly	Grab	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Grab	
Potassium, Total Recoverable		mg/L	Quarterly	Grab	
pH Field		su	Quarterly	Grab	
COD		mg/L	Quarterly	Grab	
Chloride		mg/L	Quarterly	Grab	

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**
Date	-	Date	Daily	Log
DNR Site Number(s)	-	Number	Daily	Log
Acres Applied	-	Acres	Daily	Log
Frozen Site Maximum Daily Loading Volume	6,800	Gal/Acre/Day	Daily	Calculated
Unfrozen Site Maximum Daily Loading Volume	13,500	Gal/Acre/Day	Daily	Calculated
Weekly Loading Volume	See NR 214 - Tbl 3	Inches/Week	Weekly	Calculated

Annual Report – Summary of Monitoring Requirements and Limitations

The Annual Report is due by January 31st of each year for the previous calendar year. See the 'Annual Land Application Report' subsection in Standard Requirements.

Parameters	**Limit**	**Units**	**Reporting Frequency**	**Sample Type**
DNR Site Number(s)	-	Number	-	-
Acres Land Applied	-	Acres	Annual	-
Total Volume Per Site	-	Gallons	Annual	Total Annual
Total Kjeldahl Nitrogen per Site	165, or alternate approved in writing	Pounds/Acre/Year	Annual	Calculated
Total Chloride per Site	340	Pounds/Acre per 2 Years	Annual	Calculated

3.2.3.1 Annual Site Nitrogen Loading

For details on nitrogen loading requirements, including approval of an alternate nitrogen pounds/acre/year site loading, see the "Nitrogen Requirements for Liquid Wastes, By-Product Solids and Sludges" paragraph in the Standard Requirements section of this permit.

3.2.3.2 Biennial Site Chloride Loading

For details on chloride requirements see the "Chloride Requirements for Liquid Wastes and By-Product Solids" paragraph in the Standard Requirements section of this permit.

3.2.3.3 Other Land Application Requirements

Refer to s. 4 below and the standard requirements for other applicable requirements for these outfalls.

3.2.4 Sampling Point (Outfall) 635 - DLA: Client 635; 647- DLA: Client 647; 658- DLA: Client 658; 660- DLA: Client 660; 665- DLA: Client 665; 670- DLA: Client 670; 680- DLA: Client 680, and 682- DLA: Client 682

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/month	Monthly	Measure	Direct Land Application: High-Use Industrial Liquid Waste and Industrial Liquid Sludge Clients
Solids, Total		Percent	Monthly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Monthly	Grab	
Nitrogen, Ammonia (NH_3-N) Total		mg/L	Monthly	Grab	
Phosphorus, Total		mg/L	Monthly	Grab	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Grab	
Potassium, Total Recoverable		mg/L	Monthly	Grab	
pH Field		su	Monthly	Grab	
COD		mg/L	Monthly	Grab	
Chloride		mg/L	Monthly	Grab	

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
Date	-	Date	Daily	Log
DNR Site Number(s)	-	Number	Daily	Log
Acres Applied	-	Acres	Daily	Log
Frozen Site Maximum Daily Loading Volume	6,800	Gal/Acre/Day	Daily	Calculated
Unfrozen Site Maximum Daily Loading Volume	13,500	Gal/Acre/Day	Daily	Calculated
Weekly Loading Volume	See NR 214 - Tbl 3	Inches/Week	Weekly	Calculated

Annual Report – Summary of Monitoring Requirements and Limitations
The Annual Report is due by January 31st of each year for the previous calendar year. See the 'Annual Land Application Report' subsection in Standard Requirements.

Parameters	Limit	Units	Reporting Frequency	Sample Type
DNR Site Number(s)	-	Number	-	-
Acres Land Applied	-	Acres	Annual	-
Total Volume Per Site	-	Gallons	Annual	Total Annual
Total Kjeldahl Nitrogen per Site	165, or alternate approved in writing	Pounds/Acre/Year	Annual	Calculated
Total Chloride per Site	340	Pounds/Acre per 2 Years	Annual	Calculated

3.2.4.1 Annual Site Nitrogen Loading

For details on nitrogen loading requirements, including approval of an alternate nitrogen pounds/acre/year site loading, see the "Nitrogen Requirements for Liquid Wastes, By-Product Solids and Sludges" paragraph in the Standard Requirements section of this permit.

3.2.4.2 Biennial Site Chloride Loading

For details on chloride requirements see the "Chloride Requirements for Liquid Wastes and By-Product Solids" paragraph in the Standard Requirements section of this permit.

3.2.4.3 Other Land Application Requirements

Refer to s. 4 below and the standard requirements for other applicable requirements for these outfalls.

4 General Land Application Requirements

This section applies to the management, storage, and application of all storage and direct land application outfalls (industrial waste).

4.1 Reauthorization of Land Application Sites

Sites that have been reviewed and approved by the Department on or after October 1, 2018 may be utilized by the permittee without obtaining a new or revised site approval from the Department.

Prior to the first use during the term of the reissued permit of a previously-approved site that was last reviewed and approved by the Department prior to October 1, 2018, the permittee shall notify the Department assigned Wastewater Specialist of its intent to apply wastes to such site. The permittee shall provide information on any changes of which it is aware in any site characteristics relevant to ensuring compliance with the site location criteria specified in ss. NR 214.17(2)(b) through (h) and NR 214.18(2)(b) through (g), to the extent applicable to the waste approved to be land applied on the site, since the most recent approval. The permittee may use such site under the conditions of its previous approval, unless and until the department, based on the reported changes or other information available to the department, determines that the site cannot be utilized in compliance with ss. NR 214.05, NR 214.17(2)(b) through (h), and NR 214.18(2)(b) through (g). Upon notification by department staff that a revised site approval is necessary to ensure compliance with ss. NR 214.05, NR 214.17(2)(b) through (h), and NR 214.18(2)(b) through (g), the permittee shall immediately comply with the conditions and discharge limitations specified on the revised site approval form and map.

4.2 Record Keeping and Reporting

The permittee shall maintain records consisting of the volume, application rate, date of application and any characterizations of waste land applied to each approved land application site (by Outfall and site number) and land application daily logs. The permittee shall retain the original daily logs and sample results for a period of at least 3 years. This information shall be made available to department staff for inspection upon request. These requirements also apply to influent waste logs.

The permittee shall maintain as part of the records any written waste verification required pursuant to the subsection titled ‘Influent Monitoring Requirements – Discharge to Storage’.

For each load, the permittee shall obtain from its client a written certification or have a written contract which specifies the type of waste type discharged to storage or directly to land application and maintain this as part of its records. If the permittee chooses a written contract, an example of this contract shall be included in the management plan. Only information relevant to fulfilling the requirements of sections 4.2 and 1.2 is required to be included in such an example of a contract.

Land application monitoring results shall be provided to the department by submitting a Form 3400-49 for each designated approved outfall no later than the 21 days after the end of the specified reporting period during which the samples were taken. These forms shall be submitted electronically in accordance with the e-reporting instructions at http://dnr.wi.gov/topic/wastewater/documents/3400-049instructions.pdf . If no discharge occurs during a specified reporting period, the permittee shall indicate on the reporting form that no land application occurred during that period.

The totals for the land application loadings of waste for each designated outfall shall be submitted no later than January 31 following the year in which land application occurs, in a format similar to the Annual 3400-55 form. (The method of providing this information shall be approved in the management plan.) These land application forms shall

be submitted to the Department Compliance Representative. Annual 3400-55 forms shall be submitted electronically by January 31st in accordance with the e-reporting instructions at http://dnr.wi.gov/topic/wastewater/documents/3400-055instructions.pdf and include the sum of each month's activity. Loading rates reported on the annual reports shall be calculated based on the results of the sampling of the waste that was land applied.

4.3 Operating Requirements And Management Plan

All land application sites used for treatment of liquid wastes, by-product solids and sludge shall be operated in accordance with a department-approved management plan. The management plan shall be consistent with the requirements of this permit, ss. NR 214.17 (3) and (6), and NR 214.18 (3) and (6), Wis. Adm. Code. The management plan shall also be consistent with the municipal requirements of s. NR 204.11(1), Wis. Adm. Code, as applicable. To ensure this consistency, the management plan shall address:

- the information identified in NR 214.17 (6) and NR 214.18 (6), Wis. Adm. Code, as well as s. NR 204.07 and as applicable;
- record keeping and maintenance, including responsible individuals;
- a full description of calculations used to determine appropriate application rates and loadings delivered to land application sites;
- tracking of site loading;
- the method for reporting monthly land application loadings from each outfall;
- notification and mitigation procedures for handling wastes that deviate from those anticipated;
- spill mitigation and notification procedures;
- odor control;
- sampling methods, procedures, and locations;
- and other information determined relevant to protect public health and the waters of the State

The management plan shall also describe waste acceptance procedures which ensure that waste material placed in storage have characteristics and volume similar to those contained in the permit application and authorized by this permit and that such waste materials contain no characteristics that could be reasonably expected to cause noncompliance with this permit. These procedures may include representative sampling and analysis for COD, pH, TKN, total phosphorus, chloride or other pollutant parameters as necessary.

The permittee shall notify the department prior to any land application of waste from a storage tank. The management plan shall contain a description of the manner by which this notification will occur. Such notification shall occur at a reasonable time prior to the land application event, generally no later than 48 hours prior to land application. The department recognizes shorter notice may be necessary in circumstances such as emergency landspreading needs. Notifications shall include a list of sites anticipated for use during those events.

To facilitate the department's ability to conduct unannounced inspections of the permittee's land application operations, at the department's request, the permittee shall, up to 6 times per calendar year, provide the department with a list of the sites on which the permittee intends, over the next 10 (or fewer) business days, to landspread waste, either directly or from storage. The list shall identify sites where application is planned to occur over the next 1 to 10 business days with the number of such days between 1 and 10 to be determined by in department staff. The permittee shall provide the department with an updated list that reflects any changes which become known to permittee during the spreading period.

A new or updated land application management plan shall be submitted for approval at least 60 days prior to land application for new permits and within 60 days after reissuance for existing permits. If operational changes are needed, the land application management plan shall be amended by submitting a written request to the department for approval of such amendments.

4.4 Composite Sampling

A composite sample is a combination of individual samples of equal volume taken at approximately equal intervals not exceeding one hour over a specified period of time.

4.5 Reporting – Monthly & Quarterly Form 3400-49

The monitoring results shall be provided quarterly for quarterly monitoring. These monitoring results shall also be provided monthly when the sampling frequency is monthly or more frequently than monthly to the department by submitting a Form 3400-49 by no later than the 21st of the month following the calendar month or calendar quarter during which the samples were taken. These forms shall be submitted electronically. If no discharge occurs during a calendar month, the permittee shall indicate on the reporting form that no discharge occurred during that month and no sampling is required.

4.6 Discharge to Approved Manure Pits

Pursuant to s. NR 214.17(1), Wis. Adm. Code, an exemption may be granted in writing to certain provisions of NR 214 for discharges to manure pits, provided industrial wastes are less than 10% of the mixture contained in the manure pit at the time it is landspread.

4.7 Operational Changes

The department may modify this permit if the volume of waste discharged through any of the outfalls substantially increases to a point at which more frequent monitoring is deemed necessary by the department to obtain representative samples of the discharge.

5 Schedules

5.1 Management Plan

Required Action	Due Date
Management Plan Update: Submit an updated management plan to optimize the land application system performance and demonstrate compliance with Wisconsin Administrative Code NR 214. Specifically, this update shall incorporate all changes made to the WPDES permit including composite sampling procedures from storage tanks, locations of offsite manure storage structures, standard operating procedures for routine tank inspections, freeboard maintenance, odor mitigation techniques, standard operating procedures for equipment calibration, an updated spill response plan, and all department site approval information.	12/31/2023
Management Plan Update - Redwood Rd Farm Tank: Submit an update to the management plan to incorporate operational changes associated with the 15MG Redwood Rd Farm Tank.	09/01/2026
Ongoing Management Plan Updates: The permittee shall submit updates to the management plan to the department when there are changes in operations.	

5.2 Tank Inspections - Outfalls 013, 113, and 222

Required Action	Due Date
Inspection Reports: The permittee shall submit inspection reports for Outfalls 013, 113, and 222 by the Due Date. The tanks shall be inspected by a professional engineer and each be completely emptied where the floor is clearly visible.	09/30/2024
Complete Maintenance: If the inspection reports identify any deficiencies in the storage tanks, the permittee shall make those repairs and notify the department by the Due Date.	12/31/2024

5.3 High Water Alarms - Outfalls 013, 113, 221, and 222

Required Action	Due Date
Plans and Specifications Submittal: The permittee shall submit for department review and approval high water alarms for all storage structures by the Due Date in accordance with the requirements of chs. NR 108 and NR 213, Wis. Adm. Code.	09/30/2024
Installation of High Water Alarms: The permittee shall install the approved high water alarms for the four storage structures by the Due Date.	03/31/2025

6 Standard Requirements

NR 205, Wisconsin Administrative Code (Conditions for Industrial Dischargers): The conditions in ss. NR 205.07(1) and NR 205.07(3), 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(3).

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 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.

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 shall be performed by a laboratory certified or registered in accordance with the requirements of ch. NR 149, Wis. Adm. Code. Groundwater sample collection and analysis shall be performed in accordance with ch. NR 140, Wis. Adm. Code. The analytical methodologies used shall enable the laboratory to quantitate all substances for which monitoring is required at levels below the effluent limitation. If the required level cannot be met by any of the methods available in 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 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.

6.1.4 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 NR 101 fees, the 2 mg/l lower reporting limits for BOD5 and 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.

6.1.5 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, except for sludge management forms and records, which shall be kept for a period of at least 5 years.

6.1.6 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.

6.1.7 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

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 as directed at the end of this permit 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 Bypass

Except for a controlled diversion as provided in the 'Controlled Diversions' section of this permit, any bypass 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.

6.2.3 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 unscheduled bypassing 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.

6.2.4 Controlled Diversions

Controlled diversions are allowed only when necessary for essential maintenance to assure efficient operation provided the following requirements are met:

- Effluent from the wastewater 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 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 wastewater treatment facility records and such records shall be available to the department on request.

6.2.5 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.

6.2.6 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).

6.2.7 Spill Reporting

The permittee shall notify the Department in accordance with ch. NR 706 (formerly NR 158), Wis. Adm. Code, in the event that a spill or accidental release of any material or substance results in the discharge of pollutants to the waters of the state at a rate or concentration greater than the effluent limitations established in this permit, or the spill or accidental release of the material is unregulated in this permit, unless the spill or release of pollutants has been reported to the Department in accordance with s. NR 205.07 (1)(s), Wis. Adm. Code.

6.2.8 Planned Changes

In accordance with ss. 283.31(4)(b) and 283.59, Stats., the permittee shall report to the Department any facility expansion, production increase or process modifications which will result in new, different or increased discharges of pollutants. The report shall either be a new permit application, or if the new discharge will not violate the effluent limitations of this permit, a written notice of the new, different or increased discharge. The notice shall contain a description of the new activities, an estimate of the new, different or increased discharge of pollutants and a description of the effect of the new or increased discharge on existing waste treatment facilities. Following receipt of this report, the Department may modify this permit to specify and limit any pollutants not previously regulated in the permit.

6.2.9 Duty to Halt or Reduce Activity

Upon failure or impairment of treatment facility operation, the permittee shall, to the extent necessary to maintain compliance with its permit, curtail production or wastewater discharges or both until the treatment facility operations are restored or an alternative method of treatment is provided.

6.3 Land Application Requirements

6.3.1 General Sludge Management Information

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

6.3.2 Land Application Characteristic Report

The analytical results from testing of liquid wastes, by-product solids and sludges that are land applied shall be reported annually on the Characteristic Report Form 3400 49. The report form shall be submitted electronically no later than the date indicated on the form. 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 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.
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 sludge results shall be reported on a dry weight basis.

6.3.3 Monitoring and Calculating PCB Concentrations in Sludge

When sludge analysis for "PCB, Total Dry Wt" is required by this permit, the PCB concentration in the sludge shall be determined as follows.
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 the following provisions and Table EM in s. NR 219.04, Wis. Adm. Code.

- EPA Method 1668 may be used to test for all PCB congeners. If this method is employed, all PCB congeners shall be delineated. Non-detects shall be treated as zero. The values that are between the limit of detection and the limit of quantitation shall be used when calculating the total value of all congeners. All results shall be added together and the total PCB concentration by dry weight reported. Note: It is recognized that a number of the congeners will co-elute with others, so there will not be 209 results to sum.

- EPA Method 8082A shall be used for PCB-Aroclor analysis and may be used for congener specific analysis as well. If congener specific analysis is performed using Method 8082A, the list of congeners tested shall include at least congener numbers 5, 18, 31, 44, 52, 66, 87, 101, 110, 138, 141, 151, 153, 170, 180, 183, 187, and 206 plus any other additional congeners which might be reasonably expected to occur in the particular sample. For either type of analysis, the sample shall be extracted using the Soxhlet extraction (EPA Method 3540C) (or the Soxhlet Dean-Stark modification) or the pressurized fluid extraction (EPA Method 3545A). If Aroclor analysis is performed using Method 8082A, clean up steps of the extract shall be performed as necessary to remove interference and to achieve as close to a limit of detection of 0.11 mg/kg as possible. Reporting protocol, consistent with s. NR 106.07(6)(e), should be as follows: If all Aroclors are less than the LOD, then the Total PCB Dry Wt result should be reported as less than the highest LOD. If a single Aroclor is detected then that is what should be reported for the Total PCB result. If multiple Aroclors are detected, they should be summed and reported as Total PCBs. If congener specific analysis is done using Method 8082A, clean up steps of the extract shall be performed as necessary to remove interference and to achieve as close to a limit of detection of 0.003 mg/kg as possible for each congener. If the aforementioned limits of detection cannot be achieved after using the appropriate clean up techniques, a reporting limit that is

achievable for the Aroclors or each congener for the sample shall be determined. This reporting limit shall be reported and qualified indicating the presence of an interference. The lab conducting the analysis shall perform as many of the following methods as necessary to remove interference:

3620C – Florisil	3611B – Alumina
3640A - Gel Permeation	3660B - Sulfur Clean Up (using copper shot instead of powder)
3630C - Silica Gel	3665A - Sulfuric Acid Clean Up

6.3.4 Annual Land Application Report

The annual totals for the land application loadings of liquid wastes, by-product solids and sludges to field spreading sites shall be submitted electronically on the Annual Land Application Report Form 3400-55 by January 31, each year whether or not waste is land applied. 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 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.

6.3.5 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 waste is hauled to another facility, landfilled, incinerated, or stored in a manure pit. Following submittal of the electronic Report Form 3400-52, this form shall be certified electronically via the 'eReport Certify' page by a responsible executive 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.

6.3.6 Land Application Site Approval

The permittee is authorized to landspread permitted liquid wastes, by-product solids and sludges on sites approved in writing by the Department in accordance with ss. NR 214.17(2), and NR 214.18(2), Wis. Adm. Code. Any site use restrictions or granting of case-by-case exceptions shall be identified in the approval letter. If the permittee wishes to have approval for additional sites, application shall be made using Land Application Site Request Form 3400-053. Complete information shall be submitted about each site, including location maps and soil maps, any soil analyses results and other information showing that the site complies with all application requirements and permit conditions. Spreading on a site may commence upon receipt of Department approval. If an existing spreading site is found by the Department to be environmentally unacceptable, a written notice will be issued to withdraw approval of that site.

6.3.7 Operating Requirements/Management Plan

All land application sites used for treatment of liquid wastes, by-product solids and sludges shall be operated in accordance with a Department approved management plan. The management plan shall be consistent with the requirements of this permit, ss. NR 214.17 (3) and (6), and NR 214.18 (3) and (6), Wis. Adm. Code. If operational changes are needed, the land application management plan shall be amended by submitting a written request to the Department for approval. A land application management plan shall be submitted for approval at least 60 days prior to land application.

6.3.8 Chloride Requirements for Liquid Wastes and By-Product Solids

The total pounds of chloride applied shall be limited to 340 pounds per acre per 2 year period. Calculate the chloride loading as follows:

Wet Weight Solids: $\frac{\text{lbs of solids X \%solids X \%chloride}}{\text{acres land applied X 100 X 100}}$ = lbs chloride/acre

Liquid: $\frac{\text{mg/L chloride X (millions of gallons) X 8.34}}{\text{acres land applied}}$ = lbs chloride/acre

6.3.9 Nitrogen Requirements for Liquid Wastes and By-Product Solids and Sludges

NR 214.17(4) and NR 214.18(4) Wis. Adm. Code specify that the total pounds of nitrogen land applied per acre per year shall be limited to the nitrogen needs of the cover crop minus any other nitrogen added to the land application site, including fertilizer or manure. Nitrogen applied can be calculated on the basis of plant available nitrogen, as long as the release of nitrogen from the organic material is credited to future years. This permit requires that the Total Kjeldahl Nitrogen calendar year application amount shall not exceed 165 pounds per acre per year, except when alternate numerical nitrogen loading limits (consistent with the above sections of NR 214) are approved in writing via the Department's land application management plan approval. Calculate nitrogen loading as follows ("TKN" represents "Total Kjeldahl Nitrogen"):

Wet Weight Solids and Sludges: $\frac{\text{lbs of solids X \%solids X \% TKN}}{\text{acres land applied X 100 X 100}}$ = lbs TKN/acre

Liquid: $\frac{\text{mg/L TKN X (millions of gallons) X 8.34}}{\text{acres land applied}}$ = lbs TKN/acre

6.3.10 Ponding

The volume of liquid wastes land applied shall be limited to prevent ponding, except for temporary conditions following rainfall events. If ponding occurs all land application shall cease immediately. The permittee shall land apply only the liquid wastes that are permitted.

6.3.11 Runoff

The volume of liquid wastes land applied shall be limited to prevent runoff. If runoff occurs all land application shall cease immediately. The permittee shall land apply only the liquid wastes that are permitted.

6.3.12 Soil Incorporation Requirements

- Liquid Sludge Requirements: The Department may require that liquid sludge be incorporated into the soil on specific land application sites when necessary to prevent surface runoff or objectionable odors. Requirements and procedures for incorporation of liquid sludge, when such incorporation may be necessary, shall be specified in the management plan or in specific site applications, subject to Department approval. The permittee shall comply with the requirements in the Department approved management plan, specific site-approval requirements and the terms and conditions of this permit.
- Liquid Wastewater Requirements: The Department may require that liquid wastewater be incorporated or injected into the soil on specific land application sites when necessary to prevent surface runoff or objectionable odors. Requirements and procedures for injection or incorporation of liquid wastewater, when such injection or incorporation is necessary, shall be specified in the management plan or in specific site applications, subject to Department approval. The permittee shall comply with the requirements in the Department approved management plan, specific site-approval requirements and the terms and conditions of this permit.

6.3.13 Additional Requirements from ch. NR 214, Wis. Adm. Code

The requirements of s. NR 214.17 (4)(c) [pathogen prohibition for human consumption crop fields], (4)(d)1 [no adverse soil effects], (4)(d)10 [allowable whey spreading rates], and (4)(e)1-3 [by-product solids spreading within

agricultural practices and not cause contamination] for landspreading of liquid wastes and by product solids and s. NR 214.18 (4)(b),(d)-(h) [application, nutrient, pH, metals, and PCB limitations] for sludge spreading systems are included by reference in this permit. The permittee shall comply with these requirements.

6.3.14 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.

6.3.15 Sludge Incineration Reports

The permittee shall report the volume of sludge combusted at an on-site incinerator on Form 3400-52. Submittal of Form 3400-52 is required annually by January 31, each year whether or not sludge is incinerated.

7 Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

Description	Date	Page
Management Plan -Management Plan Update	December 31, 2023	21
Management Plan -Management Plan Update - Redwood Rd Farm Tank	September 1, 2026	21
Management Plan -Ongoing Management Plan Updates	See Permit	21
Tank Inspections - Outfalls 013, 113, and 222 -Inspection Reports	September 30, 2024	21
Tank Inspections - Outfalls 013, 113, and 222 -Complete Maintenance	December 31, 2024	21
High Water Alarms - Outfalls 013, 113, 221, and 222 -Plans and Specifications Submittal	September 30, 2024	21
High Water Alarms - Outfalls 013, 113, 221, and 222 -Installation of High Water Alarms	March 31, 2025	21
General Sludge Management Form 3400-48	prior to any significant sludge management changes	26
Land Application Report Form 3400-55	January 31, each year whether or not waste is land applied	27
Other Methods of Disposal or Distribution Report Form 3400-52	by January 31, each year whether or not waste is hauled to another facility, landfilled, incinerated, or stored in a manure pit	27
Wastewater Discharge Monitoring Report	no later than the date indicated on the form	22

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:
South Central Region - Horicon, N7725 Hwy 28, Horicon, WI 53032-1060

ATTACHMENT 1

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES TO BE IDENTIFIED (if Believed Present)

Asbestos	Dimethyl amine	Nitrotoluene
	Dintrobenzene	Parathion
Acetaldehyde	Diquat	Phenolsulfanate
Allyl alcohol	Disulfoton	Phosgene
Allyl chloride	Diuron	Propargite
Amyl acetate	Epichlorohydrin	Propylene oxide
Aniline	Ethion	Pyrethrins
Benzonitrile	Ethylene diamine	Quinoline
Benzyl chloride	Ethylene dibromide	Resorcinol
Butyl acetate	Formaldehyde	Strontium
Butylamine	Furfural	Strychnine
Captan	Guthion	Styrene
Carbaryl	Isoprene	2,4,5-T (2,4,5-Trichloro-phenoxy acetic acid)
Carbofuran	Isopropanolamine	
Carbon disulfide	Dodecylbenzenesulfonate	TDE (Tetrachloro-Diphenylethane)
Chlorpyrifos	Kelthane	
Coumaphos	Kepone	2,4,5-TP [2-(2,4,5-Trichloro-phenoxy) propanoic acid]
Cresol	Malathion	
Crotonaldehyde	Mercaptodimethur	Trichlorofan
Cyclohexane	Methoxychlor	Triethanolamine dodecyl-Benzenesulfonate
2,4-D (2,4-Dichlorophenoxy acetic acid)	Methyl mercaptan	
	Methyl methacrylate	Triethylamine
Diazinon	Methyl parathion	Trimethylamine
Dicamba	Mevinphos	Uranium
Dichlobenil	Mexacarbate	Vanadium
Dichlone	Monoethyl amine	Vinyl acetate
2,2-Dichloropropionic acid	Monomethyl amine	Xylene
Dichlorvos	Naled	Xylenol
Diethyl amine	Napthenic acid	Zirconium

ATTACHMENT 2

PRIMARY INDUSTRIES AND POLLUTANT GROUPS REQUIRING TESTING

INDUSTRIAL CATEGORY	POLLUTANT GROUPS				
	Volatile Organics	Acid Extractable Compounds	Base/Neutral Compounds	Pesticides	Dioxins and Furans
Adhesives and sealants	X	X	X		
Aluminum forming	X	X	X		
Auto and other laundries	X	X	X	X	
Battery manufacturing	X		X		
Coal mining	X	X	X	X	
Coil coating	X	X	X		
Copper forming	X	X	X		
Electric and electronic compounds	X	X	X	X	
Electroplating	X	X	X		
Explosives manufacturing	X	X	X		
Foundries	X	X	X		
Gum and wood chemicals					
All subparts except D and F	X	X			
Subpart D	X	X	X		
Subpart F	X	X	X		
Inorganic chemicals manufacturing	X	X	X		
Iron and steel manufacturing	X	X	X		
Leather tanning and finishing	X	X	X		X
Mechanical products manufacturing	X	X	X		
Nonferrous metals manufacturing	X	X	X	X	
Ore mining (applies to Subpart B)		X			
Organic chemicals manufacturing	X	X	X	X	X
Paint and ink forming	X	X	X		
Pesticides	X	X	X	X	
Petroleum refining	X				X
Pharmaceutical preparations	X	X	X		
Photographic equipment and supplies	X	X	X		
Plastic and synthetic materials manufacturing	X	X	X	X	
Plastic processing	X				
Porcelain enameling					
Printing and publishing	X	X	X	X	

INDUSTRIAL CATEGORY	POLLUTANT GROUPS				
	Volatile Organics	Acid Extractable Compounds	Base/Neutral Compounds	Pesticides	Dioxins and Furans
Pulp, paper and paperboard mills					
Subpart A - Dissolving Kraft	X	X			X
Subpart B - Bleached Papergrade Kraft and Soda	X	X			X
Subpart C - Unbleached Kraft		X		X	X
Subpart D - Dissolving Sulfite	X	X			X
Subpart E - Papergrade Sulfite	X	X	X		X
Subpart F - Semi-chemical		X			X
Subpart G - Mechanical Pulp	X	X			X
Subpart H - Non-Wood Chemical Pulp	X	X	X	X	X
Subpart I - Secondary Fiber Deink	X	X		X	X
Subpart J - Secondary Fiber Non-Deink	X	X		X	X
Subpart K - Fine and Lightweight Papers from Purchased Pulp					
Nonintegrated Fine		X			X
Nonintegrated Lightweight	X	X		X	X
Subpart L - Tissue, Filter, Non-Woven and Paperboard from Purchased Pulp	X	X		X	X
Rubber processing	X	X	X		
Soap and detergent manufacturing	X	X	X		
Steam electric power plants	X	X			
Textile mills (excluding Subpart C)	X	X	X		
Timber products processing	X	X	X	X	