Permit Fact Sheet

IMPORTANT: THIS FACT SHEET ONLY ADDRESSES MODIFICATIONS MADE TO PERMIT NO. WI-0063215-04-0. FOR A COMPLETE EXPLANATION OF MONITORING REQUIREMENTS, SEE PREVIOUS FACT SHEET.

General Information

Permit Number	WI-0063215-04-1
Permittee Name and Address	Feyen's Arcade Pumping Service 15811 Bridge Street, Ettrick, WI 54627
Permitted Facility Name and Address	Feyen's Arcade Pumping Service 15811 Bridge Street, Ettrick, WI
Permit Term	May 01, 2025 to August 31, 2027
Discharge Location	Land application of sewage sludge, septage, and industrial liquid waste/sludge onto DNR-approved agricultural sites in Trempealeau County.
Receiving Water	Groundwater of the Beaver Creek and Lake Marinuka Watershed, located in the Black River Basin in Trempealeau County via land application.

Facility Description

Feyen's Arcade Pumping Service (APS- formerly just Arcade Pumping Service) headquarters are located in Ettrick, Wisconsin (Trempealeau County). This facility provides short term storage and land application of sewage liquid sludge, septage (septic tank, holding tank, grease interceptor wastes, and portable restroom waste), and industrial liquid waste for numerous clients. Currently, APS has 7 fields (approximately 198 acres) approved for the land application of industrial waste and mixed wastes. This permit covers mixing of waste in storage from multiple clients prior to land application.
Requirements from multiple administrative codes may apply to mixed wastes, depending on what is being mixed. Monitoring requirements are established based on all applicable codes for the waste types that have been mixed together.

This permit covers land application of the following wastes from various storage structures:

- Industrial liquid waste and industrial liquid sludge (plus non-CAFO manure) in the Tjoflat Pit.
- Sewage liquid sludge (municipal biosolids), septage waste (includes septic tank, holding tank waste, grease trap waste, and portable restroom waste), industrial liquid waste, industrial liquid sludge and non-CAFO manure in Berg and Hwy D Slurrystores.

Depending on the mixed waste land applied, each land application site/field must comply with ss. NR 113.07, NR 204.07, NR 214.17, and/or NR 214.18 Wis. Adm. Codes requirements for 1) separation distance from houses and wells, 2) separation distance from surface water and wetlands, 3) separation distance from bedrock and groundwater, and 4) soil permeability rate (sufficient to properly hold and treat the wastewater).

Wintertime land application of ch. NR 214, Wis. Adm. Code industrial wastewater is permissible for sites/fields meeting the above conditions and that have slopes less than 2% or on a case by case basis 2-6%, per ss. NR 214.17(2)(f) and 214.18(2)(f), Wis. Adm. Codes. No winter land application is permitted for sewage sludge (biosolids), septage/holding tank/grease trap wastes/portable restroom wastes, or mixed wastes. When soil temperatures are above

freezing, all land application is limited to slopes of 12% or less. APS has approved sites/fields located in Trempealeau County.

Land Application

All land application is restricted to department approved sites/fields only. To ensure the continued acceptability of land application sites that were previously approved, APS must notify the DNR Basin Representative of site use for review and approval, prior to using a land application site for the first time during the term of the proposed permit. If DNR does not approve or deny the site within 7 business days after notification of the intent to use the site, APS may apply waste to the site under the conditions of the previous approval. Upon future notification by DNR of the unacceptability of the site, APS shall immediately discontinue use of the site (See the General Land Application Requirements section in the permit).

Application rates are limited to the spreading restrictions shown in chs. NR 204 or NR 214 Wisconsin Adm. Code as applicable. Sewage sludge (biosolids) and comingled waste (sewage sludge + septage + industrial wastes) winter-time application is prohibited. "Winter" is defined as frozen or snow-covered ground.

Waste Types

All hauler permits in the State of Wisconsin categorize the waste types into one of 7 individual categories, based on how closely the characteristics align with definitions outlined in ch. NR 113, ch. NR 204, and ch. NR 214, Wis. Adm. Codes.

Combined/Mixed wastes: Some waste storage structures or outfalls have department approval to contain multiple types of waste. For example: Outfalls 003 and 004 are permitted to contain a mixture of sewage sludge (ch. NR 204, Wis. Adm. Code), septage (ch. NR 113, Wis. Adm. Code), and industrial wastes (ch. NR 214, Wis. Adm. Code). The permit provides APS with flexibility regarding the volume of each approved waste type that is approved for each mixed waste outfall. To ensure flexibility, this permit does not prescribe any specific ratios of sewage sludge to septage wastes to industrial wastes in waste storage structures or outfalls.

1. **Industrial Liquid Sludge*** (from s. NR 214.03(34), Wis. Adm. Code): "the accumulated solids generated during the biological, physical or chemical treatment, coagulation or sedimentation of water or wastewater." Process grease interceptor waste falls under this definition.

2. **Industrial Cake Sludge*** (from s. NR 214.03(34), Wis. Adm. Code): "the accumulated solids generated during the biological, physical or chemical treatment, coagulation or sedimentation of water or wastewater." **NOTE: The distinction between "Industrial Cake Sludge" and "Industrial Liquid Sludge" is a function of the extent that the sludge has been dewatered. Generally speaking, if a sludge is able to be pumped, it is considered a liquid sludge. Conversely, if a sludge can be stacked, it is considered a cake sludge. This permit currently does not authorize the storage or land application of industrial cake sludge.*

   **NOTE: Industrial (process) grease is generated from large-scale food production. Numerous meat and poultry processors generate industrial/process grease. Grease generated by the industrial food production process enters a grease interceptor installed in or connected to process pipes, not sanitary plumbing pipes. Non-domestic septage (including process grease) is regulated pursuant to ch. NR 214, Wis. Adm. Code. In addition, process piping is not regulated by the plumbing code; therefore, this waste is exempt from ch. NR 113, Wis. Adm. Code requirements. This waste is regulated as an industrial sludge pursuant to s. NR 214.18, Wis. Adm. Code.*

3. **Industrial By-Product Solids** (from s. NR 214.03(4), Wis. Adm. Code): "waste materials from the animal product or food processing industry including, but not limited to: remains of butchered animals, paunch manure and vegetable waste materials such as leaves, cuttings, peelings and actively fermenting sweet corn

silage." *NOTE: This permit currently does not authorize the storage or land application of industrial by-product solids.*

4. **Industrial Liquid Waste** (from s. NR 214.03(27), Wis. Adm. Code): "process wastewater and waste liquid products, including silage leachate, whey, whey permeate, whey filtrate, contact cooling water, cooling or boiler water containing water treatment additives, and wash water generated in industrial, commercial and agricultural operations..."

5. **Sewage Liquid Sludge**** (aka "municipal sludge" or "biosolids"--from s. NR 204.03(55), Wis. Adm. Code): "the **semi-solid or liquid** residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes scum or solids removed in primary, secondary or advanced wastewater treatment processes and material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works."

6. **Sewage Cake Sludge**** (aka "municipal sludge" or "biosolids" --from s. NR 204.03(55), Wis. Adm. Code): "the **solid** residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes scum or solids removed in primary, secondary or advanced wastewater treatment processes and material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works."

   ***NOTE: The distinction between "Sewage Cake Sludge" and "Sewage Liquid Sludge" is a function of the extent that the sewage sludge has been dewatered. Generally speaking, if a sewage sludge is able to be pumped, it is considered a sewage liquid sludge. Conversely, if a sewage sludge can be stacked, it is considered a sewage cake sludge. This permit does not authorize the storage and subsequent land application of sewage cake sludge, though the permittee may accept sewage cake sludge and directly land apply it under s. 3.2.2 or s. 3.2.3 (if it contains Radium) of this permit.*

7. **Septage*** (from s. NR 113.03(55), Wis. Adm. Code): "**means the wastewater or contents of septic or holding tanks, dosing chambers, grease interceptors, seepage beds, seepage pits, seepage trenches, privies or portable restrooms." **Sanitary** grease interceptor waste falls under this definition.

   ****NOTE: Sanitary grease interceptor: a watertight receptacle designed to intercept and retain grease that enters the interceptor from sanitary plumbing in or from kitchens and restaurants. Sanitary grease contains human pathogens. See ch. NR 113, Wis. Adm. Code.*

Storage Structures

A sample point (outfall) has been designated for the tank to track the land application of wastes from that discharge location. Throughout this permit the term 'outfall' is used for any Sample Point number where the location is also a discharge point. Wastes are comingled and then land applied. Wastes are typically incorporated via a 6-inch knife during land application.

Tank/ Pad	Outfall	Tank Type	Waste Stored	Capacity	TRS	Q/Q	Township	Manure Stored?
Tjoflat Pit	002	Concrete Pit	NR 214	0.725 MG	R7W, T20N, Section 17	SW/SW	Ettrick	Yes

Berg Slurrystore	003	Steel, glass-lined	NR 113, NR 204, NR 214	1.5 MG	R7W, T21N, Section 18	SE/SW	Preston	Yes
Hwy D Slurrystore	004	Steel, glass-lined	NR 113, NR 204, NR 214	0.4 MG	R7W, T20N, Section 32	SW/SW	Ettrick	Yes

Other Methods of Disposal

APS may also discharge wastes to other WPDES permitted facilities. Once the wastewater is discharged to these facilities, APS is no longer is responsible for the land application. Currently, APS does not discharge into Department approved manure storage structures per s. NR 214.17(1) Wisconsin Adm. Code.

Management Plan

All land application practices are outlined under a department approved management plan. APS must submit an updated management plan for department review and approval per the "Schedules" in the permit, and again prior to initiating any future changes in land application practices.

Permit Nomenclature

Within this permit, various acronyms are used to designate waste types by outfall. For example, Outfall 003 is shown as (M+I+S). This means that this outfall is used for land application of, municipal (M) sewage sludge, industrial (I) wastes, and Septage (S).

'PH' means Placeholder, indicating that, prior to activation, the permittee must obtain department approval. Placeholder outfalls and sampling points will not show up on eDMRs until the department has activated them.

'DLA' means Direct Land Application, indicating that the permittee is authorized to accept waste from an approved client and land apply it directly on a field without storing it in any storage structures.

In tables, gray coloring indicates this is a change from the previous permit.

Sample Point Descriptions

Sample Point Designation		
Sample Point Number	**Discharge Flow, Units, and Averaging Period**	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**
701		Inflow to storage of septic tank waste (Septage).
702		Inflow to storage of sewage liquid sludge from Black River Falls WWTP (Sewage Liquid Sludge).
703		Inflow to storage of sewage liquid sludge from Village of Ettrick (Sewage Liquid Sludge).
704		Inflow to storage of industrial liquid waste from Land O Lakes - Black River Falls (Industrial Liquid Waste).
705		Inflow to storage of sewage liquid sludge from Village of Alma (Sewage Liquid Sludge).
706		Inflow to storage of sewage liquid sludge from Village of Trempealeau (Sewage Liquid Sludge).
707		Inflow to storage of sewage liquid sludge from Village of Holmen (Sewage Liquid Sludge).
711		Inflow to storage of industrial liquid waste from City Brewing (Industrial Liquid Waste).
712		Inflow to storage of sewage liquid sludge from City of Osseo (Sewage Liquid Sludge).
713		Inflow to storage of holding tank waste (Septage).
714		Inflow to storage of grease trap waste (Septage).
715		Inflow to storage of portable restroom waste (Septage).
716		Inflow to storage of industrial liquid waste from Coulee Region Biofuels LLC (Industrial Liquid waste).
717		Inflow to storage of industrial liquid waste from AMPI Blair (Industrial Liquid Waste).
718		Inflow to storage of industrial liquid waste from VPP Group (Industrial Liquid Waste).
719		Inflow to storage of non-CAFO manure (non-CAFO manure).
720		Inflow to storage of industrial liquid sludge from an approved client. PLACEHOLDER: DEPARTMENT APPROVAL REQUIRED PRIOR TO USE.
721		Inflow to storage of industrial liquid waste from Lallemand Inc.
002		Land application of mixed industrial liquid waste and industrial liquid sludge from the 725,000-gallon concrete-lined Tjoflat Pit, located in the SW 1/4 of SW 1/4 of Section 17, R7W, T20N. No

Sample Point Designation		
Sample Point Number	**Discharge Flow, Units, and Averaging Period**	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**
		sewage sludge or septage is permitted to be stored in this storage structure. Representative samples shall be taken as specified in the approved management plan (Industrial Liquid Waste, Industrial Liquid Sludge, non-CAFO manure).
003		Land application of commingled sewage liquid sludge, septage (holding tank waste, grease trap waste, septic tank waste), industrial liquid waste and industrial liquid sludge from the 1.5-million-gallon steel, glass-lined Berg Farm Slurrystore, located in the SE 1/4, SW 1/4, Section 18, R7W, T21N. Representative samples shall be taken as specified in the approved management plan (Sewage Liquid Sludge, Septage, Industrial Liquid Waste, Industrial Liquid Sludge, non-CAFO manure).
004		Land application of commingled sewage liquid sludge, septage (holding tank waste, grease trap waste, septic tank waste), industrial liquid waste and industrial liquid sludge from the 0.4-million-gallon steel, glass-lined Hwy D Slurrystore located in the SW 1/4, SW 1/4, Section 32, R7W, T20N. Representative samples shall be taken as specified in the approved management plan (Sewage Liquid Sludge, Septage, Industrial Liquid Waste, Industrial Liquid Sludge, non-CAFO manure).
201		Direct land application of sewage liquid sludge from Village of Wilton (Sewage Liquid Sludge).
202		Direct land application of sewage cake sludge from an approved client (Sewage Cake Sludge). PLACEHOLDER: DEPARTMENT APPROVAL REQUIRED PRIOR TO USE.
203		Direct land application of industrial liquid sludge from an approved client (Industrial Liquid Sludge). PLACEHOLDER: DEPARTMENT APPROVAL REQUIRED PRIOR TO USE.
204		Direct land application of liquid industrial waste from an approved client (Industrial Liquid Waste). PLACEHOLDER: DEPARTMENT APPROVAL REQUIRED PRIOR TO USE.
205		Direct land application of industrial cake sludge from an approved client (Industrial Cake Sludge). PLACEHOLDER: DEPARTMENT APPROVAL REQUIRED PRIOR TO USE.
206		Direct land application of industrial by-product solids from an approved client (Industrial By-Product Solids). PLACEHOLDER: DEPARTMENT APPROVAL REQUIRED PRIOR TO USE.

Changes from Previous Permit:

Placeholder language was removed for Outfalls 002, 003, and 004, as these tanks are all constructed and approved for storage of the identified waste types. The outfall description for 004 was updated to include the correct location and tank size.

Permit Requirements

1 Influent – Monitoring Requirements

Sample Point Number: 704- Land O Lakes - BRF; 711- City Brewing; 716- Coulee Region Biofuels; 717- AMPI Blair; 718- VPP Group; 721- Lallemand Inc

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

Changes from Previous Permit:

Lallemand Inc., was approved during the current permit term and has been added to this subsection.

2 Land Application

Sample Point Number: 003- Berg Slurrystore (M+I+S); 004- Hwy D Slurrystore (M+I+S)

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/month	Monthly	Estimated	Septage, Sewage Liquid Sludge, Industrial Liquid Waste, Industrial Liquid Sludge.
Solids, Total		Percent	Weekly	Composite	
Nitrogen, Total Kjeldahl		mg/L	Weekly	Composite	
Nitrogen, Ammonia (NH3-N) Total		mg/L	Weekly	Composite	
Phosphorus, Total		mg/L	Weekly	Composite	
Phosphorus, Water Extractable		% of Tot P	Quarterly	Composite	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Potassium, Total Recoverable		mg/L	Weekly	Composite	
pH Field		su	Weekly	Grab	
COD		mg/L	Weekly	Composite	
Chloride		mg/L	Weekly	Composite	
Arsenic Dry Wt	Ceiling	75 mg/kg	Quarterly	Composite	
Arsenic Dry Wt	High Quality	41 mg/kg	Quarterly	Composite	
Cadmium Dry Wt	Ceiling	85 mg/kg	Quarterly	Composite	
Cadmium Dry Wt	High Quality	39 mg/kg	Quarterly	Composite	
Copper Dry Wt	Ceiling	4,300 mg/kg	Quarterly	Composite	
Copper Dry Wt	High Quality	1,500 mg/kg	Quarterly	Composite	
Lead Dry Wt	Ceiling	840 mg/kg	Quarterly	Composite	
Lead Dry Wt	High Quality	300 mg/kg	Quarterly	Composite	
Mercury Dry Wt	Ceiling	57 mg/kg	Quarterly	Composite	
Mercury Dry Wt	High Quality	17 mg/kg	Quarterly	Composite	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Quarterly	Composite	
Nickel Dry Wt	Ceiling	420 mg/kg	Quarterly	Composite	
Nickel Dry Wt	High Quality	420 mg/kg	Quarterly	Composite	
Selenium Dry Wt	Ceiling	100 mg/kg	Quarterly	Composite	
Selenium Dry Wt	High Quality	100 mg/kg	Quarterly	Composite	
Zinc Dry Wt	Ceiling	7,500 mg/kg	Quarterly	Composite	
Zinc Dry Wt	High Quality	2,800 mg/kg	Quarterly	Composite	
Fecal Coliform	Geometric Mean - Monthly	2,000,000 MPN/g TS	Quarterly	Grab	

Changes from Previous Permit:

Sampling point 004 was updated from ‘AOA Slurrystore’ to ‘Hwy D Slurrystore’. Letter of No Objection S-2025-0235 issued 03/24/2025, authorizing storage and subsequent land application from this storage structure. Monitoring requirements are set in accordance with considerations from the requirements of chs. NR 113, 204, 214, Wis. Adm. Code.

Sample Point Number: 201- DLA: Village of Wilton Liq Sewage

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		gal/month	Monthly	Estimated	
Solids, Total		Percent	Quarterly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Quarterly	Grab	
Nitrogen, Ammonia (NH3-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	
Arsenic Dry Wt	Ceiling	75 mg/kg	Quarterly	Grab	
Arsenic Dry Wt	High Quality	41 mg/kg	Quarterly	Grab	
Cadmium Dry Wt	Ceiling	85 mg/kg	Quarterly	Grab	
Cadmium Dry Wt	High Quality	39 mg/kg	Quarterly	Grab	
Copper Dry Wt	Ceiling	4,300 mg/kg	Quarterly	Grab	
Copper Dry Wt	High Quality	1,500 mg/kg	Quarterly	Grab	
Lead Dry Wt	Ceiling	840 mg/kg	Quarterly	Grab	
Lead Dry Wt	High Quality	300 mg/kg	Quarterly	Grab	
Mercury Dry Wt	Ceiling	57 mg/kg	Quarterly	Grab	
Mercury Dry Wt	High Quality	17 mg/kg	Quarterly	Grab	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Quarterly	Grab	
Nickel Dry Wt	Ceiling	420 mg/kg	Quarterly	Grab	
Nickel Dry Wt	High Quality	420 mg/kg	Quarterly	Grab	
Selenium Dry Wt	Ceiling	100 mg/kg	Quarterly	Grab	
Selenium Dry Wt	High Quality	100 mg/kg	Quarterly	Grab	
Zinc Dry Wt	Ceiling	7,500 mg/kg	Quarterly	Grab	
Zinc Dry Wt	High Quality	2,800 mg/kg	Quarterly	Grab	
Fecal Coliform	Geometric Mean -	2,000,000	Quarterly	Grab	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
	Monthly	MPN/g TS			

Changes from Previous Permit:

Sampling Point 201 for direct land application of sewage sludge from the Village of Wilton was approved during the current permit term and is now added to this permit.

Attachments

- Letter of No Objection dated 03/24/2025 for Hwy D Slurrystore

Prepared By:

Nate Willis, P.E.
Wastewater Engineer
Bureau of Water Quality

Date: 03/24/2025