Fred Hegeman, Wisconsin DNR Statewide Residuals Coordinator
Stephen Warrner, Wisconsin DNR Wastewater Specialist
2018 Spring Biosolids Symposium  March 20, 2018
Overview

1. NR 151 Changes
2. Study Groups
3. Site Approvals
4. Updates for Online Reporting
5. Storage
6. Discharge of Septage Wastes into Manure Storage Units
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# NRCS 590 vs ATCP 50

<table>
<thead>
<tr>
<th>NRCS 590 (2015)</th>
<th>ATCP 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Standard</td>
<td>• Adm. Code</td>
</tr>
<tr>
<td>• <strong>All Organic Waste</strong></td>
<td>– Approval by Legislative</td>
</tr>
<tr>
<td>• Limited to 7,000 gal during Feb/Mar</td>
<td>• References NRCS 590, 2015</td>
</tr>
<tr>
<td>• Bedrock Concerns</td>
<td>• <strong>Exemptions</strong> for Septage, Biosolids, Ind. Waste <strong>WHEN</strong> PRIMARY NUTRIENT</td>
</tr>
<tr>
<td></td>
<td>• If NOT primary nutrient...then farmer, not septage applier</td>
</tr>
<tr>
<td></td>
<td>• Will lead to changes in NR 151</td>
</tr>
</tbody>
</table>
NR 151 Changes

- Impacts Animal Waste
- Exemptions for NR 113, NR 204 & NR 214 Wastes Remain
  - NR 151.07(2)
- Exemption does not apply to Commingled Wastes
- Gen. Issues:
  - Depth to bedrock,
  - Time of spreading (winter),
  - Distances to wells,
  - Fecals

(2) This performance standard does not apply to the application of industrial waste and byproducts regulated under ch. NR 214, municipal sludge regulated under ch. NR 204, and septage regulated under ch. NR 113, provided the material is not commingled with manure prior to application.
Crop Year vs Rotation

Note: If an application of material to cropland is regulated under ch. NR 113, 204, or 214, the management practices, loading limitations, and other restrictions specified in the applicable regulation apply to that application. However, nutrient management plans developed in accordance with this performance standard must account for all nutrient sources, including industrial waste and byproducts, municipal sludge, and septage. This means that the future application of manure and commercial fertilizer may be restricted by this performance standard due to other applications of industrial waste and byproducts, municipal sludge, and septage. In addition, it means that if industrial waste and byproducts, municipal sludge, or septage are placed in a manure storage structure and mixed with manure, the commingled material is also covered by this standard and must be accounted for by the producer when preparing and implementing a nutrient management plan.
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What is the Septage Study Group?

- Members appointed by DNR Secretary and Governor Walker
- Solicit and receive information from Septage Study Group regarding:
  - Business and vehicle licensing;
  - Vehicle operator certification;
  - Training by department staff and by others;
  - Servicing related issues including complying with county maintenance requirements;
  - Treatment facility disposal;
  - Land application for beneficial reuse;
  - Storage; and
  - Logs/Records retention.
What is the Septage Study Group?

- **Focus**: streamline department efforts and resources to create a level regulatory “playing field” within the industry while protecting public health and protecting surface & groundwaters.
Septage Study Group-Members

- Rachel Angel, WDNR
- Aaron Ausen, WI Onsite Water Recyclers
- Dan Bahr, WI Counties Assoc.
- Corey Bowen, WLWCA
- Bill Dyer, Herzog-Dryer Excavating and Sanitation
- Fred Hegeman, WDNR Coordinator
- Alexis Heim-Peters, WDNR
- Emily James, WDNR
- Brad Johnson, WDSPS
- George Klaetsch, Klaetsch Public Affairs Strategies
- Joe Knilans, WDOA
- Chris Olson, WI County Code Adm.
- Sue Porter, WDATCP
- Dale Sanford, Stanford’s Septic Service
- Megan Taylor, Cans to Go
- Jim VandenBrook, WI Land & Water Cons.
- Dave Kons, Kons Septic Service
- Vanessa Wishart, Municipal Environmental Group
Septage Study Group

- Kickoff Meeting (August 22, 2017)
- Second Meeting (December 13, 2017)
- Third Meeting (April 2018 TBD)

- Meetings are open to the public
- Summary notes from each meeting are available to the public
Recent Discussions

• Septage storage
  1. General permit
  2. Manure storage units

• Various Code Issues
  • Sandy Soils, Compliance, Enforcement

• Septage service record templates*
  1. 3400-026: Portable Restroom Servicing Log
  2. 3400-027: Septage Servicing & Land Application Disposal Log
  3. 3400-028: Septage Servicing & WPDES Permitted Facility Disposal Log
  4. 3400-029: Weekly pH Meter Calibration Log

* While the use of these forms are optional, businesses are required to collect and maintain the necessary records pursuant to ch. NR 113, Wis. Adm. Code and 40 CFR 503, Code of Federal Regulations.
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Site Approval Reviews

- ACT 21
- Site Submittals are reviewed pursuant to code requirements
  - No “half rate” approvals
  - No “loose” variances without a formal variance submittal
- Dept. working on “formal” sandy site approval process
LAG & LASER

- LAG=Land Application Geo-database
- LAG Release 5.0 More Efficient
  - Improves turn around time
LASER

- UW-Platteville Engineering Student Team Project
  - Students:
    - Shane Dennis
    - Jordan Geenen
    - Alex Joromin
    - Caitlin Krause

- LASER:
  - Land Application Site Evaluation Resource
Overview

- Site Submittals Required for:
  - NR 113: Septage
  - NR 204: Biosolids
  - NR 214: Landspreading of Industrial Wastes

- Use UW-Platteville’s Sr. Design Process
  - Develop a “Proof of Concept”
  - “Screening” Tool
  - 4 Engineering Seniors

- Proof of Concept to Wisconsin DNR
Flowcharts for DNR Reviewers

• Structure of flowchart was a vertical hierarchy
• All three categories of residuals: septage, biosolids (sewage sludge), and industrial wastes and sludges
• Begins with horizontal setbacks, then transitions to vertical setbacks
• Complex
Soil Suitability Layer for Septage

• Each soil type has tables full of associated data

• Combines all soil and ground criteria into an overall suitability classification
  • Slope, water table depth, bedrock depth, permeability
  • Takes into account different criteria for different application methods

• Soil layer symbolized in ArcMap according to overall suitability
  • **Green** soil means all application methods acceptable
  • **Yellow** soil means injection/incorporation acceptable, proof required for surface application
  • **Orange** soil means proof required for all application methods
  • **Red** soil means no application methods acceptable
Soil Suitability Example (Green)

<table>
<thead>
<tr>
<th>Soil Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Symbol</td>
</tr>
<tr>
<td>Soil Description</td>
</tr>
<tr>
<td>Min Soil Slope (%)</td>
</tr>
<tr>
<td>Max Soil Slope (%)</td>
</tr>
<tr>
<td>Min Bedrock Depth (ft)</td>
</tr>
<tr>
<td>Min Water Table Depth (ft)</td>
</tr>
<tr>
<td>Avail. Water Storage 0-60 in (in)</td>
</tr>
<tr>
<td>Min Soil Permeability (in/hr)</td>
</tr>
<tr>
<td>Max Soil Permeability (in/hr)</td>
</tr>
<tr>
<td>Slope Suitability</td>
</tr>
<tr>
<td>Bedrock Suitability</td>
</tr>
<tr>
<td>Water Table Suitability</td>
</tr>
<tr>
<td>Permeability Suitability</td>
</tr>
<tr>
<td>Overall Suitability</td>
</tr>
</tbody>
</table>
Soil Suitability Example (Orange)

<table>
<thead>
<tr>
<th>Soil Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Symbol</td>
<td>175D2</td>
</tr>
<tr>
<td>Soil Description</td>
<td>Palsgrove silt loam, 12 to 20 percent slopes, moderately eroded</td>
</tr>
<tr>
<td>Min Soil Slope (%)</td>
<td>12</td>
</tr>
<tr>
<td>Max Soil Slope (%)</td>
<td>20</td>
</tr>
<tr>
<td>Min Bedrock Depth (ft)</td>
<td>4.82</td>
</tr>
<tr>
<td>Min Water Table Depth (ft)</td>
<td>6.60</td>
</tr>
<tr>
<td>Avail. Water Storage 0-60 in (in)</td>
<td>9.63</td>
</tr>
<tr>
<td>Min Soil Permeability (in/hr)</td>
<td>0.06</td>
</tr>
<tr>
<td>Max Soil Permeability (in/hr)</td>
<td>0.60</td>
</tr>
<tr>
<td>Slope Suitability</td>
<td>Orange</td>
</tr>
<tr>
<td>Bedrock Suitability</td>
<td>Green</td>
</tr>
<tr>
<td>Water Table Suitability</td>
<td>Green</td>
</tr>
<tr>
<td>Permeability Suitability</td>
<td>Yellow</td>
</tr>
<tr>
<td>Overall Suitability</td>
<td>Orange</td>
</tr>
</tbody>
</table>
ArcMap Workflow for WDNR Reviewers

1. Draw in proposed site
2. Run Input Extents model
3. Add user inputs (ex. houses)
4. Run appropriate buffering model
Input Extents Model

• Adds 1000-ft. buffer around proposed site
  • Two purposes
User Inputs

- Add user inputs anywhere within 1000-ft. buffer
- Any features that have horizontal setbacks besides surface waters, schools, and healthcare facilities
- Other purpose of the input extents model
Buffering Model

• Choose appropriate version based on application method

• Buffers all features that have horizontal setbacks
  • User inputs, surface water, schools, healthcare facilities
  • Combines the buffers into a single red buffer

• Buffers soil based on overall suitability (yellow buffer)
  • Acceptable suitability depends on version of the model
  • Priority is given to the horizontal buffers
Legend

- **Horizontal Buffers Clipped**
- **AOI Buffer**
- **Area of Interest**
- **Property Line**
- **Residences, Businesses, Recreation**
- **Residences & Businesses w/ Permission**
- **Private Wells**
- **Grass Waterways & Dry Runs**

Streams

Stream Order

1
2
3
4
5
6
7
8
9
Legend

- Yellow: Soil Buffers
- Red: Horizontal Buffers
- Green: Area of Interest
LASER Capabilities

User Input Features

Area of Interest

Buffer Analysis of User Inputs
LASER User Guide & Tutorials

• User guide readily available in the header of LASER
  • PDF document

• Video tutorials also available in the header of LASER
  • Youtube playlist
Objectives

1. Review Current Process
2. Outline Wisconsin NR Code
3. Recreate WDNR340 0-053 Form
4. Define Requirements for a Web App
5. Create Web App
6. Beta Test
# Differences between Code

<table>
<thead>
<tr>
<th>Soil permeability range (in/hr)</th>
<th>NR 113.07(3)(b)</th>
<th>NR 204.07(3)(d)</th>
<th>Not specified in code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface: 0.2-6.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incorporation: 0-6.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injection: 0-6.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Unless water holding capacity &gt; 5 inches in top 60 inches</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>No surface application on soils with permeability &lt; 0.2 inches/hr within top 6 inches</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Community Well</th>
<th>Spreading: 1,000 ft</th>
<th>Incorporation: 1,000 ft</th>
<th>Injection: 1,000 ft</th>
<th>“Community water supply or school”</th>
<th>Spreading: 1,000 ft</th>
<th>Incorporation: 1,000 ft</th>
<th>Injection: 1,000 ft</th>
<th>“well serving a community public water supply system”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Surface: 1,000 ft</td>
<td></td>
<td></td>
<td></td>
<td>Spread: 1,000 ft, incorporation: 1,000 ft, injection: 1,000 ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommendation for site evaluation</th>
<th>NR 113.08(1)</th>
<th>Soil scientist:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• possession of certified soil tester classification from the dept. of safety and professional services</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• a bachelor of science degree in soil science from a 4 year accredited college</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• or a certified professional soil scientist in good standing with the American Society of Agronomy</td>
</tr>
<tr>
<td></td>
<td>NR 204.06(6)</td>
<td>possession of a certified soil tester classification from the dept. of industry, labor and human relations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• a bachelor of science degree in soil science from a 4-year accredited college</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• or a certified professional soil scientist in good standing with the American Society of Agronomy</td>
</tr>
<tr>
<td></td>
<td>NR 214.23(2)</td>
<td>Qualified soil scientist, engineer, or other qualified individual.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• A degree from an accredited institution of higher education or,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Field experience in soil investigation, interpretation, and classification</td>
</tr>
</tbody>
</table>
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SWAMP

• SWAMP Database
  – System for Wastewater Application Monitoring and Permits

• USEPA’s ICIS Database
  – National Reporting if NOT in 8 Biosolids Delegated States
  – Eventually, Wis. DNR will release information from SWAMP into ICIS
SWAMP Online Reporting Changes

**Changed/Updated**
- Portable Restroom Waste
  - Outfall 998
  - Effective for 2018 Reporting Year

**Proposed**
- Annual Forms will be Auto Generated
  - Facilities and Licensees will not need to “create” forms
- 49 Forms
  - Ability to Add Multiple Sampling Events
- 52/55 Single Submittal
  - One Certification
SWAMP Online Reporting Changes

Proposed

- Variance Tab for Sites
  - Track Variance Sites
  - Apply Set of Standard Conditions
  - Sort by Variance Type
- Transferred Sites
  - Available to both entities within the calendar year
- Outfalls & Outfall Visibility
  - Only show valid outfalls on the 49, 52 and 55 forms

Proposed

- 3400-122 Site Approval Form
  - Repair Default value for Industrial Landspreading units
- Create Storage Tab
  - Track Storage Units via SWAMP
  - Locations/Facilities
  - Majority are currently paper approvals
- LAG Integration into SWAMP
  - Eliminate Double Entry Requirements
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ATCP 65.22(6)(c)

- “New” Rule
- Prohibits the mixing of human waste or septage with animal manure at a dairy farm. [Effective date September 1, 2016].
- Prevent transmission of human fecal pathogens
- Some situations where discharge to a dairy farm’s manure store unit might be allowed...
Storage Requirements & Criteria

- Small storage (<25,000 total gallons)
- Large storage (>25,000 total gallons)
- Plan & Spec
  - PE Stamped P&S
  - Exemption: SPS 383/384 Tank Approval (<25,000 gal)
- WPDES Permitting
  - Exemption: <25,000 WPDES Permit typ. not req’d.
- Commingled with Manure Storage
  - (See next section)
Small Storage

History

• NR 113 references ILHR 83, then Comm 83, now SPS 383
• Prior to July 1, 2000, Comm 83:
  – Issue sanitary permits
  – Install approved tanks
  – Product approval requirements
• Changes to Comm 83/83
  – Product approval in Comm 84 (Now SPS 384)
• NR 113 NOW updated to reflect SPS code changes
• ACT 21: Explicit Authority
Small Storage

Problem

• No legislative reference within NR 113 to SPS 384
• DNR did not have authority to approval small storage under SPS 384 (currently SPS 383)

Solution

• DNR proposed legislative note in NR 113
• Reference SPS 383 & 384
• Completed in February 2018
Approval of Small Storage

Options

• Sanitary Permit per SPS 383 (from county)
  – If county authority has authority

  OR

• DNR Approval (completion of legislative note)

(3) SMALL FACILITIES. New or existing septage storage facilities with a capacity of less than 25,000 gallons are allowed if they have been approved under ch. SPS 383 or 384 or meet the standards in ch. NR 110 and the department is notified of their use through form 3400–137, revised in July 1988.

Note: There is no intent to issue WPDES permits to all small storage facilities although the department reserves the ability to do so on a case by case basis in the event it is determined necessary to protect public health or the environment.
Approval Req.—Large Storage

• WPDES permit required

• Plan/specification review and approval (DNR)
  – Meet chs. NR 108 & 110 Wis. Adm. Code requirements
  – NR 150: Environmental Analysis & Review Procedures
    • Repealed & Recreated 2014
    • Plan/Spec approval storage considered a Minor Action
    • No Public Notice required if activity is associated with a permit

• Flow Chart (in progress)
General Permit (GP) Development

• Septage as Septage GP
  – No sampling and analysis of mixed waste
  – No monthly reporting
  – Daily log requirements:
    • Influent
    • Discharges (Land Application and/or Other Method Disposal)
  – Five year permit
  – Compliance inspection 1/5 years
  – One STATEWIDE public noticing event per 5 years
    • Does not “name” each entity
  – For Storage >25,000 Gal
Take Home Message

• Log requirements similar for both small and large septage storage facilities
  – “Tell the full story”
  – Log discharge into storage unit
  – Log service and disposal of waste from storage unit

• Additional log requirements for large septage storage facilities
  – License requirements
  – Permit requirements
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## TMDL Landspreading Work Group (LWG)

<table>
<thead>
<tr>
<th>Wastewater Program</th>
<th>Runoff Management Program</th>
<th>Groundwater Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Ryan (Sponsor)</td>
<td>Mary Anne Lowndes (Sponsor)</td>
<td>Bill Phelps</td>
</tr>
<tr>
<td>Kelley O’Connor</td>
<td>Joe Baeten</td>
<td></td>
</tr>
<tr>
<td>Fred Hegeman</td>
<td>Casey Jones</td>
<td></td>
</tr>
<tr>
<td>Alan Hopfensperger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steve Warrner (Lead)</td>
<td></td>
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<tr>
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</tr>
</tbody>
</table>
TMDL Landspreading Work Group (LWG)

Group Goals

- Improve cross program communication
- Address cross program issues
- Provide cross-program training
- Develop guidance documents
Current Projects

- Guidance documents for discharge of non-farm wastes into manure storage units
  - Industrial wastes (liquid, by-product solids, sludges)
  - Septage wastes
  - Sewage sludge (biosolids)
“Discharge of Septage Wastes into Manure Storage Units” (DRAFT)

- Guidelines for submitting a standard manure storage unit request package
- Department staff roles and responsibilities (review and compliance)
- Post-approval responsibilities of the septage business and/or permitted farm
Standard Request Package (DRAFT)
# Septage Storage Facility Permit Application

**Form 3400-137** (R 2/06)

**State of Wisconsin, DNR**  
**Septage Certification**  
**PO Box 7521**  
**Madison, WI 53707-7521**

Notice: Use of this form is required by the Department for any application filed for septage storage pursuant to Chapters NR 113 and NR 295 Code. Storage facilities with a volume less than 25,000 gallons are allowed to be used for septage storage if they have been approved under or meet the standards of ch. NR 110, if this form is completed and duly submitted to the department. It is not the department’s intent to issue permits for these small facilities although the department retains the authority to do so if it is determined necessary to protect public health or the environment. This form must also be completed and submitted for storage facilities greater than 25,000 gallons in volume as well as other information required to complete a plan review and process the application. A WPDES permit will be issued for facilities greater than 25,000 gallons in storage facility may be located under a building where animals are housed. Personal information collected on this form will be used for management programs. Information may be made available to requestors under Wisconsin’s Open Records laws (s. 19.32-19.39, Wis. Stats.) and requestors.

Send the completed application to the appropriate Department of Natural Resources Regional Office listed on the reverse.

## Applicant Information

--Manure Storage Owner  
--Septage Business

### Storage Facility Owner Information
- **Owner / Applicant Information**
  - **Storage Facility Owner Name**
  - **Telephone Number (include area code)**
- **Mailing Address**
- **City**  
- **State**  
- **ZIP Code**
- **Applicant Name (if different from owner)**
- **Telephone Number (include area code)**
- **Applicant Address**
- **City**  
- **State**  
- **ZIP Code**
- **Sanitary License Number**
- **To whom correspondence be addressed?**

## Storage Unit Information

--Location  
--Construction

### Storage Facility Information
- **Location of Storage Facility**
  - **Attach a map (e.g., plat book map) with the facility identified**
  - **N**  
  - **Section**  
  - **Township**  
  - **Range**  
  - **E/W Type:**
    - **Above Ground**
    - **Below Ground**
  - **Is it Portable?**
  - **Is it Portable?**
- **Volume in Gallons**
- **Less than 20,000 gallons, describe the secondary seal or other means of containment, if provided**
- **Dimensions (in feet):**
  - **Height**  
  - **Length**  
  - **Width**  
  - **Diameter (if round)**
  - **Type of Wastewater Stored:**
    - **Septic Tank**
    - **Grease Trap**
    - **Holding Tank**
    - **Portable Toilets**
- **Materials Used in Construction (e.g., sod, steel, concrete, etc.)**

### Tank Manufacturer Name or Contractor Name if not Prefabricated
- **Depth to Groundwater (in feet)**
- **Depth to Bedrock (in feet)**

### Distance to Nearest Residence or Business (in feet)
- **Distance to the Nearest Well (in feet)**
- **Distance to Nearest Surface Water (including wetlands, in feet)**

## Disposal / Recycling Method and Locations

- **Wastewater Treatment Plant**
  - **If selected, list:**

## Certification

- **Operator-In Charge**

**Signature**

I hereby certify that the proposed storage tank, if less than 25,000 gallons in volume, has the necessary structural integrity for storing the described waste and, as a precaution, the necessary secondary containment (i.e., berming area, secondary seal, etc.) in case of unforeseen structural failure. If the proposed storage tank is greater than 25,000 gallons in volume, a design report and layout plans and specifications shall be submitted by the registered Professional Engineer to the department for approval.

**Signature of Applicant**

Leave Blank - For Department of Natural Resources Use Only

- **Accepted**  
- **Denied**

**Reviewer Name**

**Date Reviewed**

**Date Signed**

<table>
<thead>
<tr>
<th>Accepted</th>
<th>Denied</th>
</tr>
</thead>
</table>

**Review Date**

**Reviewed by**

**Date Reviewed**

**Waiver**

**Date Waived**

**Waived by**

**Date Waived**
2. Construction Information

- Depends on desired discharge scenario
- NRCS 313
  - Co. L&W Conservation
  - OR
- NR 108 & 110
  - Professional Engineer
3. Aerial Photograph
4. Photographs for Identification
5. Additional Information

• Contractual agreement (if applicable)

• Waste types (septage, holding tank, sanitary grease, portable toilet, etc.)

• Land application method (mixed waste)

• Permitted farm: 180 day winter storage
Discharge Scenarios

DRAFT

Type of Septage Waste

DOMESTIC
Septic Tank, Holding Tank, Sanitary (Plumbing) Grease Interceptor

NON-DOMESTIC
Commercial Wastewater, Industrial (Process) Grease Interceptor

Dairy Farm
(Section 6.3)

Non Dairy Farm

Industrial (Process) Grease Interceptor
(Section 6.1)

Non-Domestic Wastewater
(Section 6.2)

Permitted Farm (CAFO)

< 10% Total Volume AND <25,000 Gallons
(Section 6.4)

≥ 10% Total Volume OR >25,000 Gallons
(Section 6.5)

< 10% Total Volume AND <25,000 Gallons
(Section 6.6)

≥ 10% Total Volume OR >25,000 Gallons
(Section 6.7)

Non Permitted Farm
Current Status

- Draft (January 2017)
- Wastewater & Runoff Mgt. PMT approval
- Statewide staff review
- Legal review
- Approval to public notice
Questions??

Fred Hegeman
– Statewide Residuals Coordinator
– Phone: (608) 267-7611
– Email: Frederick.Hegeman@Wisconsin.gov

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