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# Narrative Rate Approach Nutrient Management Plan Outline

Below is an outline to follow when developing a narrative rate approach nutrient management plan. The outline provides the items needed in each section of the plan and refers to specific references in Title 130 Livestock Waste Control Regulations.

All citations listed reference <u>Title 130, Chapter 14</u> unless otherwise noted.

Application Information	Section 1
Form B	
Form C	
Citizenship Attestation	
Introduction	
Operation Topographical Map (2000-ft radius m	nap)(001.01F)
Location and description of the water supply so	urce(s)(001.01C)
Waste Control Facilities Overview	
Detailed Operation Site Plan	,
Construction Quality Assurance Plan	<u> </u>
Description of Existing Waste Control Facilities	` ,
Description of Proposed/Modified Waste Contr	
Description and Sizing of Clean Water Diversion	
Waste Production Calculations by Facility	(001.02) (001.04)
Waste Storage Sizing	(002.01)* (001.05) <u>Chapter 8</u>
Operation and Maintenance Plan Information	Section 4
Overall Operation Narrative Design Report	(001.03)
Stage/Storage Tables	(001.01E) (001.06)
Staff Gauge Details	( <u>Chapter 8</u> , 008)
Animal Mortality Management	(002.02)* (001.07) ( <u>Chapter 12</u> , 003)
Chemical Management Information	(002.05)* (001.08)
Inspections	( <u>Chapter 12</u> , 001)
Maintenance	( <u>Chapter 12</u> , 002)

Land Treatment Section 5
Field Application Table
<ul><li>Application site name or #, usable acres, land use, slope, dominant soil, legal</li></ul>
description, owner/address, application agreement, shared manure
application agreement?(001.10A) (001.10B) (001.10D)
Field Application Identification Maps  (20.1.1.1.)
Legal's, usable acres, boundaries, waters of state(00 1.1A) (001.10C) Field Application Specific Soil Type Mana
Field Application Specific Soil Type Maps  > Setbacks and buffers(001.10b) (001.10C) (001.13) (002.06)*
Soil descriptions
Field Specific Phosphorus Risk Assessment
> Per field
Description of process(cite version of UNL P-Index)
Field Specific Nitrogen Risk Assessment
<ul> <li>Specific sites with high leach soil and high water tables, high nitrate levels</li> </ul>
(003.02A1)*, (001.09A)
Field Specific Conservation Practices Tables
<ul> <li>Table listing fields, usable acres, slope, dominant soil, conservation practices,</li> </ul>
[terraced, tile, ww, tillage, irrigated, etc], description of setbacks and buffers
(001.10B), (001.13), (001.14), (002.06)*, (003.02A1)*
Field Specific Setbacks
<ul> <li>Narrative of how setbacks derived and locations if not already noted</li></ul>
Field Specific Phosphorus Best Management Practices
Field and narrative BMP if practice is needed, narrative of BMP if needed in
future Field Specific Nitrogen Reet Management Practices
Field Specific Nitrogen Best Management Practices  Field and narrative BMP if practice is needed, narrative of BMP if needed in
future
ruture
Nutrient Management (narrative rate approach) Section 6
Nutrient Planning - Nutrient Production and Availability (Book Values)
Operational maximums for animal type ,weight, and # (001.04)
<ul><li>Estimates of annual operational manure/wastewater and how it was</li></ul>
estimated(001.02)
Nutrient Management Protocol
Narrative description of process (001.09,A,B,C) (003 fulfills 001.09)
Manure Nutrient Management
Waste sampling protocol and analytical methods(001.10E), (001.11A),
(001.11E), (002.07)* Soil Nutrient Management
Soil Nutrient Management  Soil sampling protocol and analytical methods(001.10E), (001.11B),
(001.11C), (001.11E), (002.07)*
Irrigation Nutrient Management
> Irrigation sampling and protocol(001.11D) (002.07)*
> Statement to not exceed(001.12)

## **Crop Management**

- Crops in operation\*
- Rotation(s)
- > Fields with similar management practices grouped into similar rotation
- Alternative crops (including cover crops)\*
- Average yield goal determination explanation of all crops
- Explanation of nitrogen and phosphorus recommendations for all crops
- Table listing
- > Rotation(s) distinction
- Field(s) distinction
- Crop and alternative crop(s) (alternative crops do not need to be listed by rotation, acres or field)\*
- Usable acres
- Crop and alternative crop yield goal\*
- Crop and alternative crop nitrogen and phosphorus recommendations\*
- formulation of crop nitrogen and phosphorus needs based on soil and yield in Lbs/acre\*
- Outcome of N & P risk assessment\* ..... (001.10B), (003.02.A1)\*, (003.02.A2)\*, (003.02.A3)\*, (003.02.A4)\*, (003.02C)\*

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## Strategic Nutrient Planning (5 year) Projection - (book values)

 Form, source, amount, timing, land application, rotation N & P recommendations, using Equation described in Methodology of Nutrient Removal ......(004.01 All)

# Best Management Practices for Odor ...... Section 7

- Production Area
- Waste Control Facilities
- > Land Application Sites ......(<u>Chapter 4</u>, 001.09A, B, C, D)

Emergency Response Information
Closure Information
Land Application Agreements
Manure Transfer Information Section 11  > (001.10F)
<ul> <li>Effluent Distribution &amp; Solids Handling</li></ul>
Record Keeping Requirements
Production Area and Waste Control Facilities  All Permittees
Large AFOs (additional)( <u>Chapter 12</u> , 004.01 thru 004.04, 004.06)
Land Application Records
Large AFOs( <u>Chapter 12</u> , 004.04 thru 004.018)

## **Annual Nutrient Removal Analysis**

Actual annual yield of crop in its rotation/field

Annual Report Record Keeping Requirements\* ......(Chapter 5, 007.06)

### \*Permit Terms

Ouestions?

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