

NOTES TO REVIEWERS

MWWSH

This is an existing cattle facility that has worked to provide adequate containment for waste storage. The facility recently constructed a new 200' x 108' cattle barn over the west lots. This new building will be used to house 425 head of finisher cattle. The lots that drained into the existing holding pond were taken out of use when the new building was constructed. Plans are to handle all manure from the new barn as a solid. The holding pond will be emptied, but kept as a secondary (backup) waste storage structure.

Mortalities are handled via composting facility

Land Treatment

Fields meet t under current management and rotations.

Nutrient Management

Producer has 2.5 acre grid soil samples for fields where application is to take place. Producer needs to update some of the soil samples as some are over 4 years old. P levels on fields do not restrict manure applications as none of the fields have p levels near 300 lbs/acre.

NPDES Documentation Index

<i>Documentation</i>		<i>Location in Document</i>
General Facility Information		
	General Facility Information	Section 2 & 6
	Personnel Information	Section 8
	Emergency Contacts	Section 8
	Facility Infrastructure	Section 5 & 6
	Summary of Maps	
	<i>Topographic Map, Aerial Map, Flood Zone Map, Plat Map</i>	Section 4
	<i>Soil Maps</i>	Section 26 - 29
Facility/Production Area Information		
	Facility Working and Design Capacity	Section 7
	Storm Water Pollution Prevention	Section 17
	Facility/Production Area Storm Water Pollution Prevention Plan	Section 17
	Mortality Disposal Options	Section 12
	Mortality Disposal Discharge Prevention Best Management Practices	Section 10
	Mortality Disposal - Record Sheet	Section 31
	Yearly Mortality Summary Table	Section 31
	Chemical Wastes and Raw Materials Discharge Prevention	Section 17
	Use Exclusion (Fencing Livestock from Surface Water)	N/A
	Temporary Manure Stack Discharge Prevention	N/A
	Facility Maps	Section 4
Manure Storage Information		
	Manure Storage Descriptions and Dimensions	Section 6 & 7
	Determination of Manure Storage Working Volume and Annual Manure Production	Section 7
	Storage Volume Calculation and Determination of Adequate Size	Section 7
Manure Analysis Information		
	Manure Sample Analysis Results - Summary of All Manure Storages	Section 25
Fields - Maps, Management Practices, and Soil Tests		
	Field Maps	Section 26 - 29
	Field Summary Legend	Section 23
	Applied Field Assessment and Practices	Section 26 - 29
	Summary Table of Soil Samples for All Fields	Section 22
	Subsurface Drainage Inspection and Monitoring Plan	Section 18
	Inspection, Monitoring, Management and Repair of Subsurface Tile Drainage	Section 18 & 31
Lease Agreements for Application Fields		
	Lease Agreements for Application Fields	N/A

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<i>Documentation</i>		<i>Location in Document</i>
Justification of Proven Yield		
	Proven Yield Justification	Section 23
Crop Rotation and Nutrient Needs Print Individual Forms		
	Planned Manure Applications	Section 26-30
	Crop Rotation and Nutrient Needs	Section 21, 22, 26 - 29
Planned Field Application Summary		
	Manure Application Equipment Methods	Section 6 & 10
	Planned Field Application Summary Page	Section 20
Manure Storage Inspection		
	Manure Storage Facility Inspection Log	Section 31
	Other Manure Storage Best Management Practices	Section 10
	Rainfall Records	Section 31
	Manure Storage Pumping Levels Log	Section 31
	Manure Handling System Maintenance Record	Section 31
	Storm Water/Pollution Prevention System Inspection Form	Section 17
	Water Supply Inspection Form	Section 31
Records of Manure Application		
	Field Application Record	Section 30
	Off-Site Transfer of Manure to Third Parties	Section 31
	Inspection Log for Application Equipment	Section 31
Manure Application Equipment Calibration		
	Check Calibration Method Used	Section 31
	Load Area Method of Calibration	Section 10
Emergency Response Plans		
	Emergency Phone Numbers	Section 8
	Fire Emergency Response Information Sheet	Section 8
	Location of Pre-Arranged Emergency Equipment and Supplies	Section 8
	Emergency Action Plans	Section 8
	Emergency Map	Section 8

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(See CNMP Statement of Work for specific information)

1. Manure and Wastewater Handling and Storage

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Narrative (brief description) of operation, existing & proposed	X	X	Section 6
	Types of animals and phases of production that exist/will exist at the facility.	X	X	Section 6 & 7
	Numbers of each animal type, average weight, and period of confinement for each phase of production.	X	X	Section 7
	Total estimated manure, bedding and wastewater volumes produced at facility.	X	X	Section 7
	Existing/planned manure storage type, volume, and length of storage. (Include appropriate geologic investigation reports for planned storage or transfer facilities. Include inspection reports and photographic evidence of physical state of existing facilities.)	X	X	Section 6 & 7
	Existing/planned collection and transfer equipment, system, and procedures.	X	X	Section 2 & 6
	Existing/planned mortality management	X	X	Section 6 & 12
	Contour map of site showing sources and directions of clean water flow and polluted runoff through and around facilities	X	X	Section 4 & 6
	Map showing location of 100 year floodplain, if known	X	X	Section 4
	Animal waste system plan maps and sketches – existing and planned	X	X	Section 6
	Animal waste system preliminary design information (include estimated quantities for proposed practices using NRCS payment scenarios and planned schedule of application.)	X		Section 1 & 6
	Animal waste system practice designs		X	Section 5
	Operation and maintenance requirements	X	X	Section 10
	Emergency action plan to address spills and catastrophic events.	X	X	Section 8
	Air quality and pathogen considerations			Section 10 & 12

2. Land Treatment Practices

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Planned Conservation System (Meets Quality Criteria for Soil Loss and Water Quality) including:			
	Individual field maps for all fields the operator owns/controls and where manure application is planned / applied, showing ephemeral and gully erosion concerns, buffers, waterways, and locations of other existing/planned conservation practices.	X	X	Individual Field Sections
	Soil maps and information such as features, limitations, soil loss calculations and capability for each field the operator owns/controls and where manure application is planned / applied.	X	X	Section 15

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Nitrogen and phosphorus risk assessments for each field the operator owns/controls and where manure application is planned /applied.	X	X	Section 16
	Conservation practices needed to solve identified resource problems including: rotation, tillage, farming direction and soil erosion and water runoff control practices on all fields where manure application is planned (include estimated quantities for proposed practices using NRCS payment scenarios and planned schedule of application by field.)	X		Section 15
	Conservation practice design and implementation information for all fields where manure is applied.		X	Individual Field Sections
	Identification of sensitive areas such as sinkholes, streams, springs, lakes, ponds, wells, gullies, and drinking water sources.	X	X	Individual Field Sections
	Other site features of significance, such as property boundaries, residences and populated areas.	X	X	Individual Field Sections
	Operation and Maintenance (O&M) Plans for practices and/or activities.	X	X	Section 10

3. Nutrient Management

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Individual field maps for all fields the operator owns/controls and where manure application is planned / applied, showing setbacks from wells, sinkholes, and open water areas, along with areas where application restrictions exist.	X	X	Individual Field Sections
	Table or list of total field acres and acres for manure application, for all fields the operator owns/controls and where manure application is planned / applied.	X	X	Section 22
	Current soil test results for pH, phosphorus, and potassium for all fields the operator owns/controls and where manure application is planned / applied.	X	X	Section 22 & 24
	Manure and organic by-product source nutrient “book value” or test results (Planned). Manure and organic by-product source testing results (Applied). Indicate source of values used.	X	X	Section 19 & 24
	A general nutrient budget that identifies number of acres needed for waste utilization. The budget should contain a separate calculation for nutrient uptake for each combination of crop rotation and yield the operator proposes.	X	X	Section 9
	Nutrient budget for nitrogen, phosphorus, and potassium that includes all potential sources of nutrients for all fields the operator owns/controls and where manure application is planned / applied.	X	X	Section 9
	Supplemental nutrient needs when manure does not meet nutrient needs, for setbacks, and years when manure not applied.	X		Section 19 & 20

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Form, source, amount, timing, and method of application of nutrients, by field.	X	X	Section 19& 25-30
	P buildup potential where nutrient applications are in excess of P use.	X		Section 20
	Manure transfers planned / applied	X	X	Section 19
	Operation & maintenance activities (soil & manure tests, equipment calibration, etc.)	X	X	Section 10
	Air quality, Pathogen, and Salt / heavy metal buildup considerations	X	X	Section 12

4. Recordkeeping

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Current soil test results, in accordance with Nutrient Management (Code 590) and Waste Utilization (Code 633).	X	X	Section 24
	Mortality disposal records.		X	
	Records of storage containment structures operation and maintenance, including: Dates of emptying, levels before and after emptying, and discharge or overflow events, including level before and after event.		X	
For Each Application Event, Records of:				
	Field(s) where manure or organic by-products are applied or will be applied.	X	X	Section 30
	Amount applied per acre, source, and application method/equipment used.		X	
	Time and date of application.		X	
	Weather and general soil moisture conditions during nutrient application.		X	
For manure transferred off-site or to third parties:				
	Source and nutrient content		X	
	Amount and date of manure transferred.		X	
	Recipient of manure.		X	
	Copies of all reporting of waste releases filed with Illinois EPA		X	
	Forms for documenting inspections and maintenance	X		Section 31
	Records of maintenance performed associated with operation and maintenance plans.		X	
	Records of nutrient application equipment calibration.		X	
	Changes made in CNMP.		X	

5. Feed Management

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Feed management plan.			

6. Other Utilization Activities

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	More efficient and cost-effective methods (such as the following):			
	Improved systems for solids removal from liquid manure.			
	Improved manure handling, storage, and treatment methods to reduce ammonia volatilization.			
	Treatment systems that transform and/or capture nutrients, trace elements, and pharmaceutically active compounds from manure.			
	Improved composting and other manure stabilization techniques.			
	Treatment systems to remediate or replace anaerobic lagoons.			

7. Certification

	Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
	Producer's selection of alternatives (include written concurrence from producer on all planned practices)	X	X	
	Signature(s) of CNMP developer(s)	X	X	

NOTES:

CNMP Planned: The Comprehensive Nutrient Management Plan - a documented record of producer's decisions for manure and waste water handling and storage, land treatment and nutrient management.

CNMP Applied: After the planned measures in the CNMP have been implemented - the documentation for CNMP Applied includes the CNMP + field specific nutrient management and land treatment designs; any applicable designs for facilities for manure and waste water handling and storage; necessary records; feed management plans and documentation of other utilization options.