

“Draft”

APPENDIX L

TERMS OF THE NUTRIENT MANAGEMENT PLAN INCORPORATED INTO THE PERMIT AUTHORIZATION

Jensen Farms Inc.

Permit Authorization No. OKG010289

I. PERMITTEE

In accordance with Parts III.2.b and f of the AgPDES Permit No. OKG010000, the following terms of the Nutrient Management Plan (NMP) are hereby incorporated as site specific terms and conditions of the general permit for:

Jensen Farms Inc.
 1000 E. Jensen Rd.
 El Reno, OK 73036

Type of Operation: Beef Cattle
 Number of Animals: 2,950

The Jensen Farms Inc. facility is located at:

Parts of Section 28, S ½ Section 22, NE 1/4 Section 30, NW 1/4 Section 19, SW 1/4 Section 27,
 all in Township 12 N Range 7 East, I.M.,
 Canadian County, Oklahoma

For the purposes of this permit, “NMP” refers to the latest version of the NMP approved by Oklahoma Department of Agriculture, Food, & Forestry (ODAFF). Any changes to the NMP must be submitted to ODAFF in accordance with Part III.A.6 of the General Permit OKG010000.

II. SITE SPECIFIC PERMIT TERMS

A. STORAGE FACILITY

Table 1. Storage Capacity

Storage Structure	Total Volume
RRP 1	14.5 ac-ft
RRP 2	7.3 ac-ft
RRP 3	59.46 ac-ft

Manure and process wastewater shall be stored and handled in accordance with Section 3 (Manure and Wastewater Handling Storage) of the NMP.

B. LAND APPLICATION

The permittee has selected the narrative rate approach to address rates of application. In accordance with Parts III.A.3.g.ii and III.A.7.f of the General Permit OKG010000, the permittee shall calculate the

amounts of manure, litter, and process wastewater to be land applied on land application areas specified below per Section 7 of the NMP and the following site-specific permit terms.

Table 2. Land Application ⁽¹⁾

Field (spreadable area)	Phosphorus Assessment ⁽²⁾		Planned Application				
	Rating	Maximum Allowed Phosphorus Application Rate (lbs P ₂ O ₅ /acre/year)	Main Crop/Use ⁽⁴⁾	Estimated Yield Goal	Types of Waste (Manure/Wastewater) to be Land Applied	Maximum Amount of Nutrients Derived from All Sources ^{(3),(5)}	
						Nitrogen (lbs N/ac)	Phosphorus (lbs P ₂ O ₅ /a)
Field 1 94.6 Acres	Low Risk Moderate STP	Full Rate ⁽³⁾	Bermuda Grass Hay	5 Ton/Acre	Wastewater	260	300 ⁽⁶⁾
			Small Grain	2 Ton/Acre		120	
Field 2 41.0 Acres	Moderate Risk High STP	Crop Removal Rate ⁽³⁾	Bermuda Grass Hay	5 Ton/Acre	Wastewater	260	69 ⁽⁶⁾
			Small Grain	2 Ton/Acre		120	
Field 3 52 Acres	Low Risk Moderate STP	Full Rate ⁽³⁾	Bermuda Grass Hay	5 Ton/Acre	Wastewater	260	300 ⁽⁶⁾
			Small Grain Silage	2 Ton/Acre		120	
Field 4 142.7 Acres	Low Risk Low STP	Full Rate ⁽³⁾	Alfalfa	5 Ton/Acre	Solid Waste	20	200 ⁽⁶⁾
Field 5 65.5 Acres	Low Risk Low STP	Full Rate ⁽³⁾	Wheat	60 Bu/Acre	Solid Waste	125	200 ⁽⁶⁾
			Fallow	N/A		N/A	
Field 6 81.6 Acres	Low Risk Low STP	Full Rate ⁽³⁾	Wheat	60 Bu/Acre	Solid Waste	125	200 ⁽⁶⁾
Field 7 118.3 Acres	Low Risk Low STP	Full Rate ⁽³⁾	Alfalfa	5 Ton/Acre	Solid Waste	20	200 ⁽⁶⁾
Field 8 33.6 Acres		No Application	Fallow	N/A	No Application	0	0 ⁽⁶⁾
Field 9 125.7 Acres	Low Risk Low STP	Full Rate ⁽³⁾	Alfalfa	5 Ton/Acre	Solid Waste	20	200 ⁽⁶⁾
Field 10 8.2 Acres		No Application	Fallow	N/A	No Application	0	0 ⁽⁶⁾
Field 11 33.0 Acres	Low Risk Low STP	Full Rate ⁽³⁾	Bermuda Grass Hay	5 Ton/Acre	Wastewater	260	300 ⁽⁶⁾
			Small Grain Silage	2 Ton/Acre		120	
Field 12 105.9 Acres	Low Risk Low STP	Full Rate ⁽³⁾	Bermuda Grass Hay	5 Ton/Acre	Solid Waste	260	200 ⁽⁶⁾
			Small Grain Silage	2 Ton/Acre		120	
Field 13 26.8 Acres		No Application	Fallow	N/A	No Application	0	0

- (1) Details of land application information can be found in Section 4 of the NMP.
- (2) The maximum amount of phosphorus shall be based on the field-specific phosphorus risk assessment, which must be evaluated annually using the most recent soil test results. Documentation of annual phosphorus risk assessment performed for each land application field must be kept on site and made available to ODAFF inspectors upon request.
- (3) In accordance with the NRCS Code 590, application rate of phosphorus varies depending on application method (i.e. surface spreading, irrigation, injection below ground level ...). When more than one type of waste is applied to a field, the most stringent application rate based on phosphorus assessment will apply to that field.
- (4) Crop/Use should be either specific for each year as shown in the table above or alternated with other crop(s) shown in the Alternative Crop List provided in Section 4 of the NMP.
- (5) Based on the maximum rates provided in Section 4 of the NMP. These values may vary depending on actual crops grown, yield goals, and annual phosphorus assessment.
- (6) The full rate is 300 lbs P_2O_5 /acre/year when wastewater is applied by sprinkler irrigation and managed to prevent runoff from field. The full rate is 200 lbs P_2O_5 /acre/year when injected below the surface or incorporated within seven (7) days. When wastewater application is not incorporated within seven (7) days, the full rate limitation is 200 lbs P_2O_5 /acre/year when not managed to prevent runoff. The full rate for manure not injected or incorporated within 7 days is 200 lbs P_2O_5 /acre/year. The application rate shall not exceed nitrogen requirement(s) of the actual crop(s) grown.

Other Requirements:

1. Manure and/or wastewater application shall not exceed the maximum allowed P_2O_5 application rate and the Nitrogen requirement of the crop.
2. Wastewater application rates shall not exceed field capacity for the soil, shall not create runoff, and shall minimize ponding.
3. In all other respects, land application shall be accomplished in accordance with the Oklahoma NRCS Code 590.

C. MANURE TRANSFER

Manure not utilized by the facility for land application will be transferred off-site each year. All transfer records shall be kept on-site and made available to ODAFF inspectors upon request.

D. SITE SPECIFIC CONSERVATION PRACTICES

Conservation practices must be implemented in accordance with Section 4 of the NMP. Setbacks shall be implemented in accordance with Section 7 of the NMP.

E. PROTOCOLS FOR APPROPRIATE TESTING OF SOIL, MANURE, AND PROCESS WASTEWATER

Soil and manure/wastewater sampling shall be done in accordance with Section 7 of the NMP, respectively.

F. MORTALITY MANAGEMENT

All mortalities shall be disposed of in accordance with Section 4 of the NMP.

G. CLEAN WATER DIVERSION

Clean water shall be diverted from the production area in accordance with Section 4 of the NMP.

H. CHEMICAL HANDLING

Chemicals and other contaminants shall be handled in accordance with Section 3 of the NMP.