



# TENNESSEE DEPARTMENT OF AGRICULTURE

## Land & Water Stewardship Section

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

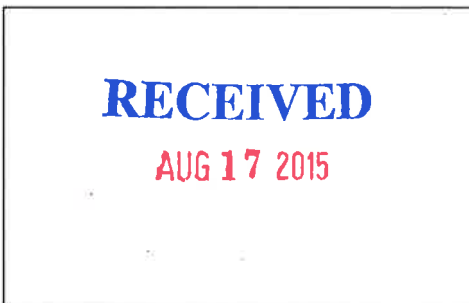
Name of Owner/Operator: James Tosh

Operation Name: Tosh - Cottage Grove

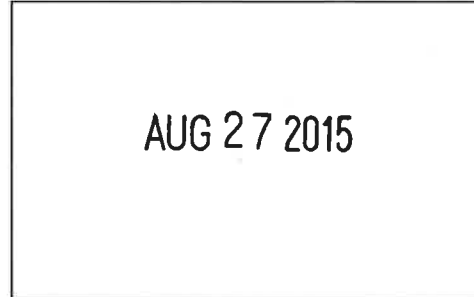
Address of Operation: Cold Corners Road, Henry, TN 38231 (36.452205, -88.514894)

Phone Number: (731) 243-4863 County: Henry

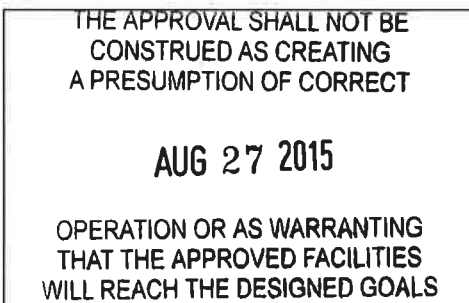
Date application was initiated:



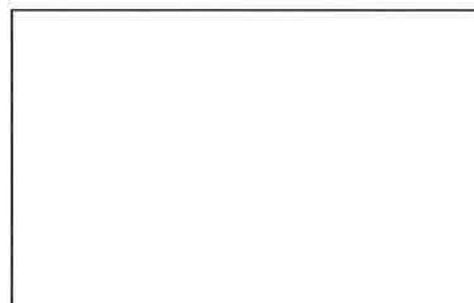
Date approval forwarded to TDEC:



NMP/CNMP Approval Date:



Date approval received by TDEC:



TDA Reviewer's Name: Heidi McIntyre-Wilkinson

TDA Reviewer's Signature: *Heidi McIntyre-Wilkinson* 08/27/15  
Date

# Nutrient Management Plan (NMP) and CAFO Permit Application Checklist for SOPC00000

Facility Name: Tosh Cottage Grove

Form Completed by: Heidi McIntyre-Wilkinson (08/17/15)

Name of Owner: James Tosh

SOPC Requirements*			Citation of Requirements in CNMP/ NMP			
			Completed by producer or TSP	FOR TDA USE ONLY		
Required Element	Permit Page #	Citation	Item Addressed in (C)NMP on Page #	Initials	Comments	Completed (Yes/ No)
Notice of Intent (NOI) form	4	1.6.1		HMW	RCVD 08/18/15	Yes
Declarations Page, which addresses the following items:				HMW	RCVD 08/18/15	Yes
Prevents direct contact of confined animals with waters of the State.	8	3.1.e				
Ensures chemicals or other contaminants handled on-site are handled (including spill clean-up) and disposed of properly.	8, 10	3.1.f, 4.6.1.a, 4.6.1.c				
All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.	8	3.1.h				
A copy of the most recent nutrient management plan (NMP) will be kept as part of the farm records and will be maintained and implemented as written.	9	3.1.j				
If applicable, all waste directed to under-floor waste pits shall be composed entirely of wastewater (i.e., washwater, animal waste).	10	4.6.1.b				
Notify TDEC of any significant wildlife mortalities following land application of animal wastes.	10	4.6.1.d	↓	↓	↓	↓

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Address employee training for proper operation and maintenance of facility where employees are responsible for activities that relate to permit compliance.	10	4.6.1.e	↓	↓	↓	↓
There shall be no land application of nutrients within 24 hours of a precipitation event that may cause runoff. The operator shall not land apply nutrients to frozen, flooded, or saturated soils.	12	4.6.2.f	↓	↓	↓	↓
Topo Map with Property Boundary	7	2.3.1.f	b/t 6-7, 20	HMW	Additional map w/full property lines rcvd 08/25/15	Yes
Ortho Map with Property Boundary showing location of animal barns/ houses, compost bins, litter storage bins, manure lagoons/ holding ponds, nearby roads, fields to which manure/ litter will be applied, sinkholes, neighboring wells, wetlands, etc.			6, 18-19	HMW	Page 6 = structures labeled; page 18 = full property lines	Yes
The NMP contains Best Management Practices (BMPs)/ conservation practices necessary to manage production area.	8	3.1.a	7	HMW		Yes
The NMP contains BMPs used (i.e. buffers) to control runoff of pollutants from land application.	8	3.1.g	22	HMW		Yes

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Ensures adequate waste storage. For liquid waste systems this would include: documentation of the total volume for solids accumulation, design treatment volume, total design volume, and approximate number of days for storage capacity.	8, 15	3.1.b, 5.2.g	8, 41	HMW	Total max storage = 2,185,192 gal; total max on-hand = 2,098,190 gal. Amount on-hand is building year-to-year; if additional manure is not exported or applied, by Year 2021, Barn 1's storage capacity will be exceeded.	Yes* see note
Proper Management of Mortalities (also to be identified in Closure Plan).	8, 14	3.1.c, 4.10	9, attached	HMW	Closure Plan rcvd 08/18/15	Yes
Clean water is diverted from the production area.	8, 11	3.1.d, 4.6.1.f	4	HMW		Yes
Follow latest UT guidance for appropriate testing methods for manure.	8	3.1.h				
Identify methods used to land apply litter, manure, or process wastewater.	9	3.1.i	38	HMW	Aerway, injected, and surface band	Yes
Nutrient budget or balance sheet of all nutrients (animal waste, compost, fertilizer, etc.) used on the farm based on current UT crop recommendations which ensures appropriate use of nutrients.	9	3.1.i	39-40	HMW	Custom recommendation used for nitrogen for small grain after corn is the combination of UT's max. rec. for sm. gr. establishment (30 lbs/ac N) and the rec. topdress (60-90 lbs/ac N).	Yes
Expected crop yields	15	5.2.h	35	HMW		Yes
NMP addresses facility maintenance.	9	3.2.c	46-47	HMW		Yes

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Closure/rehabilitation plan for waste system storage/treatment structure(s) and mortalities that addresses facility maintenance until proper closure to be completed within 360 days.	5, 13-14	1.6.3, 4.9	Attached	HMW	Closure Plan rcvd 08/18/15	Yes
Includes field specific assessment of potential for N and P <sub>2</sub> O <sub>5</sub> transport from field to surface waters. Must address form, source, amount, timing, and method of application of nutrients on each field to achieve realistic production goals (TN P Index must be provided for each field).	11	4.6.2.a.i	32	HMW	Fields being applied manure at 2-year P-rate.	Yes
Current manure/litter analysis for N and P <sub>2</sub> O <sub>5</sub> (from within last year).	11	4.6.2.b	57-58	HMW	Manure samples rcvd 08/25/15. Date of analysis = 05/07/15	Yes
Provide results of soil test conducted at a minimum of once every five years for all fields receiving manure, litter, or process wastewater.	11	4.6.2.b	59-62	HMW	Soil test data provided 08/27/15. Multiple samples were taken for each field; however, only the highest value tests for P and K were used for determining application rates. Date of analyses = 01/08/15 and 01/09/14.	Yes

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Applications of waste are no closer than 100 ft. to any down-gradient surface waters, open tile line intake structures, sinkholes, ag. wells, or other conduits to surface waters unless 100 ft. setback with a 35 ft. wide vegetated buffer is substituted or it is demonstrated that a setback/buffer is not needed due to use of alternate conservation practices or where field conditions would provide equivalent pollutant reductions.	11	4.6.2.d	32-33	HMW	100' buffer in place around streams that run through the fields	Yes
New CAFOs located adjacent to high quality stream (Exceptional TN waters) leave in place a 60-ft natural riparian buffer between stream and land application area.	12	4.6.2.e	N/A	HMW	N/A; existing CAFO	N/A
Liquid Waste Management System Requirements						
Liquid waste management system must be designed to exclude all stormwater and must not contain any design allowances for a discharge.	12	4.7		HMW	Typical Tosh barn - design previously reviewed and approved. Full engineering plans on-file at TDA.	Yes

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If liquid waste management system was constructed, modified, repaired, or placed in operation after April 13, 2006, it must meet or exceed NRCS FOTG standards. This should consist of pertinent engineered drawings (i.e. schematic of system) accompanied by a descriptive narrative.	12	4.7		HMW	Typical Tosh barn - design previously reviewed and approved.	Yes
Any new or additional confinement buildings, waste containment/ treatment structures constructed after April 13, 2006 shall be located according to NRCS Practice Standard 313.	12	4.7.a		HMW	↓	Yes
If any earthen structures were constructed or modified after April 13, 2006, a subsurface investigation is provided.	12	4.7.b	N/A	HMW	N/A; no earthen structures - all pits are concrete.	N/A

Comments: \*TSP was made aware of possible manure management/storage issues beyond the current plan period in a telephone conversation on 08/17/15.