



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF WATER RESOURCES
 WILLIAM R. SNODGRASS TENNESSEE TOWER
 312 ROSA L. PARKS AVENUE, 11TH FLOOR
 NASHVILLE TN 37243
 1-888-891-8332 (TDEC)

Compliance Inspection for Concentrated Animal Feeding Operation (CAFO)

INSPECTION TYPE									
Routine	<input type="checkbox"/>	Comprehensive	<input checked="" type="checkbox"/>	Complaint	<input type="checkbox"/>	Follow Up	<input type="checkbox"/>	Termination	<input type="checkbox"/>
Facility Name:	William Thompson dba Cypress Creek Farm				County(ies):	Obion			
Street Address or Location:	238 Red McCorkle Road Union City, Obion County, TN				Latitude (dd.dddd):	36.350000			
					Longitude (-dd.dddd):	-88.956900			
Official Contact:	William Thompson		Email: htwn@frontiernet.net		Contact Phone: 731-571-3429				
Address:	238 Red McCorkle Road		City: Union City		State: TN		Zip: 38261		
Inspection Date: 6-25-2020			Entry Time: 12:15		Exit Time: 15:15				
Weather Conditions: Mostly Sunny				Inspector(s): Kevin Smith					
PERMIT									
Permit Number:	TN0081779		<input checked="" type="checkbox"/> copy available on site						
Issuance Date	August 2, 2017		Expiration Date	August 31, 2022					
Number of Animals the Facility is permitted for			12000						
FACILITY INFORMATION									
Type of Operation:	swine								
Current Number of Animals:	Just below 12,000								
Number of Animals in Confinement:	Just below 12,000								
Number of Houses/Barns:	6 barns								
Animals have direct contact with Waters?	<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes, explain:						
<input type="checkbox"/> Assessed as Impaired? List Impairment(s):									
25-year, 24 hour rainfall amount for this location (include source)					7.2 inches, NPDES Permit				
Description of Facility if unpermitted									
Does facility layout match information provided in approved NMP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Attach a sketch or map of current layout.									
NUTRIENT MANAGEMENT PLAN (NMP)									
Facility has NMP	<input checked="" type="checkbox"/> yes		<input checked="" type="checkbox"/> copy available on site						
	<input type="checkbox"/> no								
NMP approved by Tennessee Dept. of Agriculture (NMP approved on: May 16, 2017)					<input checked="" type="checkbox"/> yes <input type="checkbox"/> no				
RECORD KEEPING									
Requirement	Yes	No	Partial	Comments					
Inspections of Waste Storage System	<input checked="" type="checkbox"/>								
Liquid Systems, Freeboard Records <input type="checkbox"/> N/A - not a liquid system	<input checked="" type="checkbox"/>								
Weekly Inspection of Storm Water Controls	<input checked="" type="checkbox"/>								
Records of Daily Rainfall	<input checked="" type="checkbox"/>			Uses Fieldview software for rainfall data which is specific to the facility location.					
Records of Daily Waterline Inspections	<input checked="" type="checkbox"/>								
Records of Compost Temperature and Moisture	<input checked="" type="checkbox"/>								
Records of Manure Transferred Off Site		<input checked="" type="checkbox"/>		Mr. Thompson indicated he had transferred manure 1 time to Mr. Reams but did not fill out a record of the					

			transfer. In the future a record of all manure transfers should be kept.
Copies of Third Party Waste Transfer Forms		X	Mr. Thompson indicated he had transferred manure 1 time to Mr. Reams but did not fill out a record of the transfer. In the future a record of all manure transfers should be kept.
Records of Land Application of Manure	X		Last application was April 2016 to the Jernigan
Maintenance Reports i.e., equipment calibrations	X		Uses a computerized flow meter on tractor.
Annual Manure/Litter Analysis	X		Manure analyses were collected on 4-20-20 and 4-24-20.
Soil Analysis (min. every 5 years)	X		Fall 2019 was last soil analysis. Mr. Thompson indicated he collects soil samples every other year on his application fields.
Annual Reports Submitted to DWR	X		Received February 13, 2020.
Required Training for Employees	X		
Emergency Response Plan	X		Pages 14 and 15 of CNMP.

MANURE MANAGEMENT (STORAGE)

Manure Storage Structure(s):

- Holding pond/lagoon, select liner type:
 compacted clay
 synthetic
 Above-ground constructed structure, describe:
 Under-house structure (i.e. pit barn)
 manure pack house
 composting
 other

Constructed per NRCS Standards (as shown in NMP)?
 Yes (Hog Barns and Primary Lagoon)
 No
 Unknown (secondary lagoon is unknown)

VISUAL INSPECTION OF MANURE MANAGEMENT STRUCTURE(S)

Requirement:	Yes	No	Comments
Structure(s) appears to be properly maintained	X		
Structure(s) appears to be sound (e.g. no rills, holes, etc. noted)	X		
Rain gauge installed and maintained		X	Mr. Thompson indicated his rain gauge froze and busted during the winter. Mr. Thompson has been obtaining rainfall data through a software program called Fieldview. Mr. Thompson indicated the rainfall data is specific to the location you enter.
Structure(s) maintain liquid waste	X		
Banks are maintained	X		The wastewater lagoon levees had not been mowed recently and the vegetation was getting tall. They appear to be mowed at least once or twice a year. The banks of the wastewater levee should be mowed so that the integrity of the banks can be checked during the once weekly waste storage system inspections.
Marker is present to gauge freeboard	X		Marker present but marks have faded to where they are hard to see. Mr. Thompson is supposed to re-mark the marker.
Freeboard	X		Appeared to be over 2 feet of freeboard on day of inspection.

Notes/Concerns:

Mr. Thompson no longer uses the wastewater lagoons at his facility to store wastewater. The lagoons are for emergency wastewater storage use only. Mr. Thompson indicated he has not had to use the wastewater lagoons in a few years and the nutrient content of the water in the lagoons has dropped off significantly. When Mr. Thompson built 2 new deep pit barns at the facility a few years ago he has been able to store all manure produced at the site in the pit barns without needing to pump any to the wastewater lagoon. The pipes from the older barns to the wastewater lagoon have been disconnected. If Mr. Thompson every needed to use the wastewater lagoon in an emergency situation he will pump the manure from the barns to the wastewater lagoon using a hose.

The marks on the depth marker in the lagoon have faded and are hard to see. Mr. Thompson indicated he will re-mark the depth marker so that it is more easily visible.

The lagoon levees have good vegetation on them. At the time of my visit they had not been recently mowed but it does appear that they are mowed at least once or twice a year. Facility should make sure the levees are mowed and maintained so they can conduct weekly waste storage system inspections looking for any erosion concerns or animal burrows that may occur in the banks of the levee.

Do(es) Manure Management Structure(s) match what is described in the NMP? Yes No – Attach a sketch or map of current structures.

MANURE MANAGEMENT (UTILIZATION OF NUTRIENTS)

	Yes	No	N/A	Comments
Manure Transferred Off Site	X			Most of the manure generated at the facility is land applied to the application fields identified in the facility's CNMP. Mr. Thompson indicated he did export manure from the facility 1 time to Mr. Reams but did not fill out a record of the manure transfer. In the future a record of all manure transfers should be kept.
Facility following manure transfer requirements		X		Went over record forms for manure transfers. Mr. Thompson indicated he was aware of the forms but had failed to fill them out for the one manure transfer he did. In the future a record of all manure transfers should be kept.
Manure is Land Applied on Farm	X			Most of the manure generated at the facility is land applied to fields listed in the facility's CNMP. Sometimes manure is exported to Reams Farm.
Facility has Adequate Land for manure/litter application	X			1219.5 spreadable acreage available for application.
Facility has a schedule for Land Application and is following the schedule	X			
Facility has appropriate setbacks and buffers				
- no land application w/in 100 ft. of water features or has a 35 ft. vegetated buffer or a 60 ft. natural riparian buffer	X			
- no land application w/in 100 ft. of potable well	X			
- 60 ft. natural riparian buffer btw. Stream and land application areas for new CAFO adjacent to exceptional TN waters and ONRW			X	

Description of Land Application System if it differs from what is listed in NMP:

Does not differ.

VISUAL INSPECTION OF LAND APPLICATION AREAS

Field	Crop Growing	BMPs/Buffers	Notes
BENSON CROP	CORN		171.5 / 166.6
BENSON BERM	BAYFIELD		56.2 / 44.3
CLAY	SOYBEANS		35.7 / 31.9
CREWS	CORN		150.6 / 132.4
CYPRESS CREEK	CORN		57.3 / 48.7
DUCK HOLE	SOYBEANS		22.0 / 19.0
GRANDVIEW	SOYBEANS WITH 20 ACRE CORN TEST PLOT		266.3 / 249.3
HESTER	SOYBEANS		67.9 / 65.4
JERNIGAN	CORN 150 ACRES SOYBEANS 150 ACRES		275.1 / 260.4
MAMMAW	SOYBEANS		93.5 / 87.6
MCCULLOUGH	SOYBEANS		44.0 / 38.7
THURMAN	CORN		48.2 / 41.0
WENTERS	CORN		35.7 / 34.2

Do Application Areas match information provided in NMP? Yes No – Attach a sketch or map of current application areas.

Acreage = 1324 Spreadable Acreage = 1219.5

I did not walk application fields since last manure application was in April 2020.

MORTALITY MANAGEMENT

Are mortalities managed so that discharges of pollutants to surface waters are avoided? yes no

Are mortalities managed so that they are not disposed of in manure, stormwater, or process wastewater storage or treatment systems that are not designed to treat animal mortalities? yes no

VISUAL INSPECTION OF MORTALITY SITE**Mortality Management On-Site**

- burial
- Class I landfill
- incineration
- rendering
- composting

Other, explain

Facility is Managing Mortality According to the NMP yes no (See Below)

Concerns:

Mortalities are composted on-site in covered concrete compost sheds. The hog barns located off Red McCorkle Road have a covered 7-bay concrete compost shed. The hog barns off Capps Drive have a covered 5-bay concrete compost shed. The facility uses wood chips as the bulking agent. There were a few uncovered bones observed in the compost bays but there were no uncovered carcasses observed. Facility should try to keep adequate cover over all hog remains. There were quite a few wood chips on the ground just outside of the compost bays at both compost sheds. These may have been mostly clean wood chips that fell off from the loader while placing new chips in the compost bays. There is a concrete lip that runs the length of the 7-bay compost shed and prevents runoff and material from leaving the concrete pad of the compost shed. Facility indicated that the concrete lip causes them to lose some wood chips when the drive over it getting to the compost bays to add new wood chips to the compost bays. Facility should try to keep the wood chips from the compost piles in the compost bays under roof as much as possible. I did not observe any leachate leaving any of the compost bays at the time of my inspection.

BEST MANAGEMENT PRACTICES

Is clean water diverted, as appropriate, from the production area? yes no

CHEMICAL MANAGEMENT

Are pesticides and/or other contaminants being disposed of in any manure, litter, process wastewater, or stormwater storage or treatment system not specifically designed to treat such chemicals and other contaminants? yes no

Method of Disposal of Chemicals:

Facility places sharps into a plastic container.

VISUAL INSPECTION OF CHEMICAL STORAGE

Facility is managing chemicals according to the NMP yes no

Concerns:

Any chemicals (herbicides) which are stored are kept in control room. No chemicals are stored inside the hog barns where they can enter the waste storage structure.

DISCHARGES

Has the Facility had a Discharge? no yes

- date(s) _____
- reported to the Division and/or EPA
- description of discharge
- perform required sampling?

Description of Actions taken

General Comments:

- Facility was maintaining most of the required records. Facility has conducted annual manure analysis and does soil sampling of their application fields every other year. Facility also does tissue sampling of their crops.
- Only records not being maintained were records of manure transfers from the facility. Facility indicated they had exported manure to a third party one time in 2019. Went over third party manure transfer record keeping requirements. Facility should keep a record of all future manure transfers from the facility.
- Facility did not have a rain gauge. Facility indicated that they use software called Fieldview to obtain rainfall data for their specific location.
- Depth marker in the wastewater lagoon has become faded and it is hard to see the marks on it. Facility plans to re-mark the depth marker so that it is visible. The wastewater lagoon levees had not been mowed recently and the vegetation was starting to get tall making inspections of the structure difficult. It appears that the levees are mowed at least once or twice a year. Be sure to maintain and mow the levees so the integrity of the levees can be checked during the once weekly waste storage inspections.
- There were a few bones observed in the compost shed at the time of inspection. There were no uncovered carcasses observed. Be sure to keep adequate cover over all hog remains. There were quite a few wood chips observed just outside of the compost bays at the time of inspection. These may have been mostly clean wood chips that fell off from the loader while placing new chips in the compost bays. Try to keep the wood chips from the compost piles in the covered compost bays as much as possible. I did not observe any leachate leaving any of the compost bays at the time of my visit.

On-Site Contact (if available)

On-Site Contact Name (Print):	On-Site Contact Title:	Signature:	Date:
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TDEC Personnel Information		EPO: Name and Address	
Inspector's Name (Print): Kevin Smith	Signature: 	Date: 6-25-20	Jackson Field Office 1625 Hollywood Drive Jackson, TN. 38305
		Time:	



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
JACKSON ENVIRONMENTAL FIELD OFFICE
1625 HOLLYWOOD DRIVE JACKSON, TENNESSEE 38305-4316
PHONE (731) 512-1300 STATEWIDE 1-888-891-8332 FAX (731) 661-6283

PHOTOLOG

Date: 6/30/2020

TO: JFO File: William Thompson dba Cypress Creek Farm / TN0081779

From: Kevin Smith, TDEC-DWR, Jackson Field Office

Subject: Inspection Pictures from Cypress Creek Farm 6-25-2020 CAFO Inspection



Picture 1

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of southern side of the older hog barns. Area was well vegetated. Picture was taken on southwest side of southern hog barn facing east.



Picture 2

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of west side of hog barns. Picture was taken standing near southwest corner of the southern hog barn facing north.



Picture 3

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of vegetated area between the older southern hog barns. Picture was taken standing on west side of barns facing east.



Picture 4

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of vegetated area between the new and old hog barns. Picture was taken standing on west side of barns facing east.



Picture 5

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of vegetated area between the new barns. Picture was taken on east side of barns facing west.



Picture 6

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of area north of the northernmost hog barn. Picture was taken standing at northwest corner of northernmost hog barn facing east.



Picture 7

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of the eastern side of the hog barns. Picture was taken standing near northeast corner of northern most hog barn facing south.



Picture 8

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of primary lagoon. Picture was taken on northwest side of primary lagoon facing southeast. There appears to be good vegetation established around the levees. The vegetation was tall at the time of inspection. It appears the levees may have been mowed once this year.



Picture 9

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of primary lagoon. Picture was taken on northwest side of primary lagoon facing east/northeast. There appears to be good vegetation established around the levees. The vegetation was tall at the time of inspection. It appears the levees may have been mowed once this year.



Picture 10

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of location of the depth marker in the primary lagoon. There appeared to be at least 2 feet of freeboard on the day of inspection. The marks on the depth marker have faded. Facility is going to re-mark the depth marker where it is visible.



Picture 11

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of the southern (secondary lagoon).



Picture 12

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of the 7 bay compost shed located at the barns off Red McCorkle Road. There a few bones observed scattered. I did not observe any uncovered hog carcasses at time of inspection. I did not see any leachate running out from the compost bays at time of inspection. Facility uses wood chips for the bulking agent. There were wood chips outside of the compost bays. Most may have been clean wood chips. Facility indicated they lose some wood chips when driving over concrete curb in front of the bays. Facility should try to keep the wood chips from the compost piles pushed back in the compost bays.



Picture 13

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of hog barns located off Capps Drive. Picture was taken standing on southeast side of hog barns facing west. Area around the hog barns is stable with vegetation or gravel.



Picture 14

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture shows area between the two hog barns located off Capps Drive. Area around the hog barns is stable with vegetation or gravel. Picture was taken standing on the east side of the hog barns facing west.



Picture 15

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of hog barns located off Capps Drive. Picture was taken standing on northeast side of hog barns facing west. Area around the hog barns is stable with vegetation or gravel.



Picture 16

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of hog barns located off Capps Drive. Picture was taken standing on northeast side of hog barns facing south. Area around the hog barns is stable with vegetation or gravel.



Picture 17

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture is of hog barns located off Capps Drive. Picture was taken standing on southwest side of hog barns facing north. Area around the hog barns is stable with vegetation or gravel.



Picture 18

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture shows compost shed at the hog barns off Capps Drive. Wood chips are used as the bulking agent. There were several wood chips in the gravel in front of the compost bays. These may have been clean wood chips. Facility should try to keep the wood chips from the compost piles pushed back in the compost bays. I did see a few bones scattered around but I did not observe any uncovered hog remains at the time of inspection. I did not observe any leachate leaving the compost bays.



Picture 19

Date of Photo: 6/25/20. Photo taken by: Kevin Smith. Location/Site Name: Cypress Creek Farms / TN0081779. TDWR personnel Present: Kevin Smith. Remarks: Picture shows compost shed at the hog barns off Capps Drive. Wood chips are used as the bulking agent. There were several wood chips in the gravel in front of the compost bays. These may have been clean wood chips. Facility should try to keep the wood chips from the compost piles pushed back in the compost bays. I did see a few bones scattered around but I did not observe any uncovered hog remains at the time of inspection. I did not observe any leachate leaving the compost bays.