Section N: Record Keeping and Land Application Log Forms

## SECTION N. LAND APPLICATION LOG FORMS

The following log forms are enclosed:

- 1. Manure Source Details
- 2. Annual Report Form For Permitted Confined Animal Facilities
- 3. Previous Manure Applications and Nitrogen Credits
- 4. Calculating Residual/Supplemental Nitrogen Amounts
- 5. Fertilizer Recommendations and Crop Requirements
- 6. Determining the Manure Application Rate
- 7. Animal Waste Land Application Record For Permitted Confined Animal Facilities

Manure source details

Storage identification

Manure form (solid/liquid)

Estimated Volume Actual Volume to be Spread Spread ton or gal AE-1188 (9) (8) Sample ID/Date 3 % Moisture Content (9) K20 (5) Ammonium N P205 | Ib/f000 gal 4 (1)-(2) Organic N (1)-(3) Total N Ξ CALCULATION/ REFERENCE: COLUMN: Year

Arkansas Department of Environmental Quality Permits Branch, Water Division 5301 Northshore Drive North Little Rock, AR 72118

## ANNUAL ANIMAL WASTE LAND APPLICATION REPORT

PERMITTEE NAME:	 PERMIT NUMBER:	

Field Name or/and Number	Crop Type	Total* Area Applied (acres)	Total** Volume Applied (gallons)	Total*** Nitrogen (lbs/1000 gal.)	Calculated Nitrogen Applied (lbs/ac)
(1)	(2)	(3)	(4)	(5)	(6)
					4
1					
			0.00	egan ero	

<sup>\*</sup> Total available area is the area where manure was applied during the reporting period (this data can be obtained from the management plan). \*\* Total volume applied is the total volume applied to the field during the whole reporting period (this data can be obtained from record sheet).

\*\*\* Total Nitrogen concentration (lbs/1000 gallons) can be obtained from the wastewater analysis sheet.

Column (6) = Nitrogen Applied (lbs/ac) = Column(4) X Column(5) ÷ Column (3) ÷ 1,334

NOTE: You may make additional copies of this table as needed.

Mail complete annual report form and annual application report to: Arkansas Department of Environmental Quality Permits Branch, Water Division 5301 Northshore Drive North Little Rock, AR 72118

	Previous Manure	Credit (PMC)		-						**************************************			(4)*(0)
Space and age	of second	N Credit ib/a			 and any continue		e de la companya de						(5)~(8)~(7)/400
on before crop 2		% Available (Year 3)											TABLE
Nitrogen credit from application before crop 2 seasons and	Application Rate	ton/a or 1000 gal/a											AE-1189 SHEET 2. COL 4
Nitrogen c	Manure N Analysis	lb/1000 gal											AE-1189 AE-1189 SHEET 1, COL 1 SHEET 2, COL 4
eason's crop	N Credit	lb/a		77483044					And Andrews in the second				(1)x(2)x(3)/100
on before last s	% Available	(Year 2)				T MANAGEMENT AND		C. C			, , ,		TABLE 2
nitrogen credit from application before last season's crop	Application Rate ton/a or	1000 gal/a	\	T A A A A A A A A A A A A A A A A A A A				700000000000000000000000000000000000000		- A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A			AE-1189 SHEET 2, COL 4
Manure N	Analysis Ib/ton or	lb/1000 gai								CONTRACTOR			AE-1189 AE-1189 SHEET 1, COL 1 SHEET 2, COL 4
	i	Field											CALCULATION/ REFERENCE:

Date

Calculating residual/supplemental nutrient amounts

Date / /

	Application Rate	Z	N P205 KG	K2O Actua	M Rate Robinston Rate	ation Kate		Difference		Years to N	A Annie
Field	ton/a or 1000 gal/a	lh/fon	or 16/4000 and	1	P205	K20	Z	P205	K2O	2000	DOOE WENT Application
Ī		, 10101	or include gar		lb/a			lb/a		7205	K20
											ID/a
								400			
		African Property of the Control of t		The state of the s							
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	A CONTRACTOR OF THE CONTRACTOR	de la companya de la	Printed and the second				1,000				
Video de la companya del companya de la companya del companya de la companya de l			1	100							
CALCULATION/ REFERENCE:	AE-1189			(1)X(2)X SHEET 3, COL 7/100	(1)X(3)X SHEET 3,	(1)X(4)X SHEET 3,	6,	(6)-SHEET 3,	(7)-SHEET 3,	(6)/SHEET 3,	E
OLUMN:	(1)	(2)	(3) (4)	(5)	+	201.00	100	COLZ	COL 3	COL 2	COL 3

Fertilizer recommendations and crop requirements.

1	K20							SF 882 or
lutrient Regu	P205							SF 882 or
N	Netr							(3)-
Previous Manure Credit (PMC)	<del>                                     </del>	1400						(3)-
Previous Crop Credits (PCC)	lb/a		***************************************					SF 882
Sampling Date Adjustment (SDA)	lb/a				- grander of	The state of the s		SF 882
Soil Test Nitrogen (STN)	ib/a							 SF 882
Nitrogen Requirement	lb/a						7	SF 882
Target Yield bu/a. ton/a or lh/a								
Crop								
Field					-			CALCULATION/ REFERENCE:

Determining the manure application rate.

plication Ra	ton/a, or lb/1000 gal							(3)/(12)
Manure Ap	P205 H							(2)/(11)
Target	z							(1)/(10)
itable	K20 000 gal					**************************************	***************************************	(6)X(9)
Nutrient Available	lb/ton, or lb/1000 gal							(5)X(8)
2	/g		-					(4)X(7)
K20	1 1							TABLE 3
P205	%					A STATE OF THE STA		TABLE 3
z								TABLE 2
K20	N00 gal				1000			 AE-1189 SHEET 1, COL. 5
N P205 K20	lon, or 15/10							AE-1189 SHEET 1, COL. 4
z	) q							AE-1189 SHEET 1, COL. 1
K20								SHEET 2, COL. 10
N P205 K20	PAG							SHEET 2, COL. 9
Z								SHEET 2, S
Field		## Anniel Communication of the		o di mana				CALCULATION/ &

## ANIMAL WASTE LAND APPLICATION RECORD FOR PERMITTED CONFINED ANIMAL FACILITIES

PERMITTEE: APPLICATION METHOD:		PERMIT NUMBER:							
Field Name or/and Number	Date Applied	Crop Type	Area Applied (acres)	Volume Applied (gallons)					
				***************************************					

NOTE: Facility record; **DO NOT MAIL THIS**; Keep this record at the facility. Make additional copies of this table as needed.

From: <u>C H Hog Farms, Inc.</u>

To: <u>Bailey, John; Water Permit Application; Yarberry, Katherine</u>

Subject: Fw: NMP Modification Request for C & H Hog Farms - Utilization of Waste Storage Pond 2 - Email #7

**Date:** Wednesday, March 11, 2015 4:45:06 PM

Attachments: NMP Section N.zip

Reforwarding Section N of the NMP as per the email inquiry.

## ---- Forwarded Message -----

From: "C H Hog Farms, Inc." <chhogfarmsinc@yahoo.com>

To: John Bailey <bailey@adeq.state.ar.us>; "water.permit.application@adeq.state.ar.us"

<water.permit.application@adeq.state.ar.us>; "yarberryk@adeq.state.ar.us"

<yarberryk@adeq.state.ar.us>

**Cc:** Richard Gray <richard\_gray@cargill.com>; David Brown (Cargill Pork Production)

<david\_brown@cargill.com>

Sent: Thursday, February 26, 2015 4:24 PM

Subject: NMP Modification Request for C & H Hog Farms - Utilization of Waste Storage Pond 2 -

Email #7

This is the final email pertaining to this particular modification request. Attached is Section N of the NMP.

Regards, Jason Henson