

FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permit Program (Read the "General Instructions" before starting.)		I. EPA NUMBER	
		<div style="border: 2px solid black; padding: 10px; width: 150px; margin: auto;"> RECEIVED OCT 30 1997 Environmental Protection Agency WPC- Permit Log In </div>		<div style="border: 1px solid black; padding: 5px;"> GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected. </div>	
<div style="border: 1px solid black; padding: 5px;"> II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms. </div>					
SPECIFIC QUESTIONS		MARK "X" FORM ATTACHED		SPECIFIC QUESTIONS	
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.?		YES NO FORM ATTACHED		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.?	
		X			
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above?		YES NO FORM ATTACHED		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.?	
		X			
E. Does or will this facility treat, store, or dispose of hazardous wastes?		YES NO FORM ATTACHED		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water?	
		X			
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons?		YES NO FORM ATTACHED		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy?	
		X			
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area?		YES NO FORM ATTACHED		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area?	
		X			
<div style="border: 1px solid black; padding: 5px;"> III. NAME OF FACILITY 1. NAME OF FACILITY 2. NAME OF FACILITY 3. NAME OF FACILITY </div>					
<div style="border: 1px solid black; padding: 5px;"> IV. FACILITY CONTACT A. NAME & TITLE (last, first, & title) 1. NAME & TITLE (last, first, & title) 2. NAME & TITLE (last, first, & title) 3. NAME & TITLE (last, first, & title) </div>					
<div style="border: 1px solid black; padding: 5px;"> V. FACILITY MAILING ADDRESS A. STREET OR P.O. BOX 1. STREET OR P.O. BOX 2. STREET OR P.O. BOX 3. STREET OR P.O. BOX B. CITY OR TOWN 1. CITY OR TOWN 2. CITY OR TOWN 3. CITY OR TOWN C. STATE 1. STATE 2. STATE 3. STATE D. ZIP CODE 1. ZIP CODE 2. ZIP CODE 3. ZIP CODE </div>					
<div style="border: 1px solid black; padding: 5px;"> VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 1. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 2. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 3. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER B. COUNTY NAME 1. COUNTY NAME 2. COUNTY NAME 3. COUNTY NAME C. CITY OR TOWN 1. CITY OR TOWN 2. CITY OR TOWN 3. CITY OR TOWN D. STATE 1. STATE 2. STATE 3. STATE E. ZIP CODE 1. ZIP CODE 2. ZIP CODE 3. ZIP CODE F. COUNTY CODE 1. COUNTY CODE 2. COUNTY CODE 3. COUNTY CODE </div>					

See the instructions on the reverse.
Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

Form Approved
OMB No. 2040-0086
Approval expires 5-31-92

EPA CONCENTRATED ANIMAL FEED	
I. GENERAL INFORMATION	
S. 1/2 of Sec. 28 + 29 N. 1/2 of Sec. 31 + 32 Prairie Township Hancock County, IL	
II. FEEDING OPERATIONS	
Gestation & Breeding Farrowing Nursery 10-75 lbs. Grow/Finish (cargill floor) Grow/Finish (concrete floor) Gilt Pool/Cladger (concrete floor)	512 96 1750 1750
1600 720 150	2 acres
1. What is the depth of the tank for the feed?	
INCHES	INCHES
6"	TYPE
2. What is the number of acres of feed storage?	
ACRES	SAFETY FACTOR
1.75	SAFETY FACTOR
III. FEED STORAGE	
A. FEED STORAGE	
B. FEED STORAGE	
1. PONDS 2. RACEWAYS 3. OTHER	
1. RECEIVING WATER 2. WATER SOURCE	
D. List the species of feed storage and the total weight produced by each species per year.	
RECEIVED OCT 30 1997 Environmental Protection Agency WPC- Permit Log In	
E. Report the total pounds of food fed during the calendar month of maximum feeding.	
1. MONTH 2. POUNDS OF FOOD	
IV. CERTIFICATION	
I certify that the information furnished on this form is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of criminal sanctions.	
A. NAME & OFFICIAL TITLE (print or type)	
JK Pork, Inc., Dan Carlisle, Pres	
B. PHONE NO. (area code & no.)	
C. SIGNATURE	
Dan Carlisle, Pres	
D. DATE SIGNED	
10/27/97	

JERRY GRAUF SWINE FARM
Hancock County

1 of 6

E8A

Lagoon # 1

LAGOON FREEBOARD RECORD

DATE 1998	TIME	AVAILABLE FREEBOARD (inches)	INSPECTOR
3-16	7:00	25 1/2	mm
3-17	3:00	22	mm
3-18	7:00	19 1/2	mm
3-19	7:00	19	mm
3-20	7:00	19	mm
3-21	7:00	19	mm
3-22	7:00	19	mm
3-23	7:00	19	mm
3-24	7:00	19	mm
3-25	7:00	19	mm
3-26	7:00	19	mm
3-27	7:00	19	mm
3-28	7:00	19	mm
3-29	7:00	19	mm
3-30	7:00	19	mm
3-31	8:30	16 1/4	mm
4-1	7:00	16	mm
4-2	7:00	16	mm
4-3	7:00	16	mm
4-4	7:00	15	mm
4-5	7:00	15	mm
4-6	7:00	15	mm
4-7	7:00	15	mm
4-8	7:00	14 1/2	mm
4-9	3:30	14	mm
4-10	7:00	14	mm
4-11	7:00	14	mm
4-12	7:00	14	mm

copy: - Chuck Gunnarson, DLC

- Josh Gubkin, IAGO

- Dan Heacock, Permits

- DDDA / FOS + PII

Mail to
ISPA - DWPC
5415 N. University
Peoria, IL 61614

\\livestock\grauf\freebd1.frm

Lagoon # 1

Hancock County

LAGOON FREEBOARD RECORD

DATE 1998	TIME	AVAILABLE FREEBOARD (inches)	INSPECTOR
4-13	8:00	13 1/2	mm
4-14	7:00	11 1/2	mm
4-15	7:00	11 1/2	mm
4-16	7:00	11 1/2	mm
4-17	7:00	11 1/2	mm
4-18	7:00	11 1/4	mm
4-19	7:00	11 1/4	mm
4-20	7:00	11	mm
4-21	7:00	11	mm
4-22	2:30	11	mm
4-23	7:00	11	mm
4-24	7:00	11	mm
4-25	6:30	11	mm
4-26	7:00	11	mm
4-27	7:00	11	mm
4-28	7:00	11	mm
4-29	9:30	10 1/2	mm
4-30	7:00	10 9/16	mm
5-1	7:00	9	mm
5-2	7:00	9	mm
5-3	7:00	8 1/2	mm
5-4	7:00	8 1/2	mm

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Peoria, IL 61614

#2

Page 3 of 6

[illegible]

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Peoria, IL 61614

Lagoon # 3

Hancock County

LAGOON FREEBOARD RECORD

DATE 1998	TIME	AVAILABLE FREEBOARD (inches)	INSPECTOR
2-1	7:00	22 $\frac{3}{4}$	MM
2-2	7:00	22 $\frac{1}{2}$	MM
2-3	7:00	22 $\frac{1}{2}$	MM
2-4	7:00	22 $\frac{1}{2}$	MM
2-5	7:00	22 $\frac{1}{2}$	MM
2-6	7:00	22 $\frac{1}{2}$	MM
2-7	7:00	22 $\frac{1}{2}$	MM
2-8	7:00	22 $\frac{1}{2}$	MM
2-9	7:00	22 $\frac{1}{2}$	MM
2-10	7:00	22 $\frac{1}{2}$	MM
2-11	7:00	22	MM
2-12	7:00	22	MM
2-13	7:00	22	MM
2-14	7:00	21 $\frac{1}{2}$	MM
2-15	7:00	21 $\frac{1}{2}$	MM
2-16	7:00	21 $\frac{1}{2}$	MM
2-17	7:00	21	MM
2-18	7:00	21	MM
2-19	7:00	20	MM
2-20	7:00	20	MM
2-21	7:00	19 $\frac{1}{2}$	MM
2-22	7:00	19	MM
2-23	7:00	19	MM
2-24	7:00	20 $\frac{1}{2}$	MM
2-25	7:00	20 $\frac{1}{2}$	MM
2-26	7:00	19 19 $\frac{3}{4}$	MM
2-27	7:00	19	MM
2-28	7:00	20 $\frac{1}{2}$	MM

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Peoria, IL 61614

JERRY GRAUF SWINE FARM
Hancock County

Page 5 of 6

Lagoon # 3

LAGOON FREEBOARD RECORD

DATE 1998	TIME	AVAILABLE FREEBOARD (inches)	INSPECTOR
2-28 3-1	7:00	20 1/2	MM
3-2	7:00	20 1/2	MM
3-3	7:00	20 1/2	MM
3-4	7:00	20 1/2	MM
3-5	7:00	20 1/2	MM
3-6	7:00	20 1/2	MM
3-7	7:00	20 1/2	MM
3-8	7:00	20	MM
3-9	7:00	19	MM
3-10	7:00	19	MM
3-11	7:00	18 1/2	MM
3-12	7:00	18 1/2	MM
3-13	7:00	18	MM
3-14	7:00	17 1/2	MM
3-15	7:00	17 1/2	MM
3-16	7:00	17 1/2	MM
3-17	17:00	16 1/2	MM
3-18	7:00	15 1/2	MM
3-19	7:00	15 1/2	MM
3-20	7:00	15 1/2	MM
3-21	7:00	15 1/2	MM
3-22	7:00	15 1/2	MM
3-23	7:00	15 1/2	MM
3-24	7:00	15 1/2	MM
3-25	7:00	15 1/2	MM
3-26	7:00	15 1/2	MM
3-27	7:00	15 1/2	MM
3-28	7:00	15	MM

Mail to
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5415 N. University
Peoria, IL 61614

Lagoon # 3

GRACE SWINE FARM
Hancock County

LAGOON FREEBOARD RECORD

DATE 1998	TIME	AVAILABLE FREEBOARD (inches)	INSPECTOR
3-29	7:00	15	mm
3-30	7:00	15	mm
3-31	8:30	12 $\frac{1}{2}$	mm
4-1	7:00	12 $\frac{1}{2}$	mm
4-2	7:00	12 $\frac{1}{2}$	mm
4-3	7:00	12 $\frac{1}{2}$	mm
4-4	7:00	12	mm
4-5	7:00	12	mm
4-6	7:00	12	mm
4-7	7:00	12	mm
4-8	7:00	11 $\frac{1}{2}$	mm
4-9	3:30	11	mm
4-10	7:00	11	mm
4-11	7:00	11	mm
4-12	7:00	11	mm
4-13	8:00	10 $\frac{1}{2}$	mm
4-14	7:00	9	mm
4-15	7:00	9	mm
4-16	7:00	9	mm
4-17	7:00	9	mm
4-18	7:00	9	mm
4-19	7:00	9	mm
4-20	7:00	9	mm
4-21	7:00	9	mm
4-22	2:30	9	mm
4-23	7:00	9	mm
4-24	7:00	9	mm
4-25	6:30	12 $\frac{1}{2}$	mm

Mail to
ISPA - DNPC
5415 N. University
Peoria, IL 61614

**JK PORK INC
2041 N COUNTY ROAD 1800
CARTHAGE IL 62321
217-746-8691**

RECEIVED
MAR 18 1999
Watershed Management Section
BUREAU OF WATER

March 17, 1999

IEPA

1021 North Grand Avenue East

P O Box 19276

Springfield IL 62794-9276

Attn: Dan Heacock, Permit Section, and Division of Water Pollution Control

RE: JK Pork Inc - NPDES Permit No IL 0072648

2041 N County Road 1800

Carthage IL 62321

Phone: 217-746-8691/Fax 217-74605471

Dear Mr. Heacock,

I have enclosed the additional information that you have requested in regard to our NPDES permit.

1. The feeding floor north of the gravel road, adjacent to lagoon #1 is no longer in use. The capacity of this floor was 720 head. The gilt developer on the East Side of this floor is still in use. It contains 150 head. We will discontinue using this gilt developer during the summer of 1999. The concrete Cargill floors east of the lagoon #2 and #3 will also be closed during the summer of 1999.
2. Aerial maps are enclosed with the location and acreage of each land application area.
3. Land applications will be made with an umbilical system. The manure will be injected into the soil. Applications may also be made with a manure tank equipped with an injection system.
4. Soil survey maps have been enclosed along with soil descriptions.
5. The slope of application sites is included with soil descriptions.
6. Water table information is included with the soil descriptions list.
7. Waterways and streams are included on the maps that indicate application sites and acreage.
8. A map is included on the map of the facilities and lagoon.
9. Storm water diversions are included on the map of the lagoons and facilities.
10. Dimensions and elevations of the facilities and lagoons are included on the map of facilities and lagoons. The volumes are also included with this map.
11. A work sheet has been included showing the values and calculations used to determine application rates. An actual test of the manure is also included. Withdrawal sites are included on the map of the facilities and lagoons. Five-year yield data is also included.
12. Plans dated September 5, 1997 were used.

If you have, any questions feel free to contact me at the address or telephone number listed above.

Sincerely,



Dan Carlisle
President

Application Guidelines

In lea of calculating the manure value for the lagoons, we have used the actual test for justification of the gallons to apply

Using USDA figures we have a total of 4,032,000 gallons of waste per year (see following pages)

Tests show

	.83 N	+ .83 P ₂ O ₅	+ 4.15 K ₂ O North #1
	3.32 N	+ .83 P ₂ O ₅	+ 4.98 K ₂ O South # 2 & #3
Total	4.15	1.66	9.13
N			
Average	2.01	.83 P ₂ O ₅	+ 4.56 K ₂ O
N			

ñ lbs. per 1000 gallon

removal for 150 bu corn 180-64-42

removal for 50 bu corn 45-42-65

ñ assuming SB produces 80% of there own N

Manure application on Corn 9,210 gallon using K₂O as limiting factor

Manure application on SB 14,250 gallon using K₂O as limiting factor

4,032,000 divide 9,210 = 438 acres needed of corn or

4,032,000 divide 14,250 = 283 acres needed of SB

Acres target Jerry has 300 acres

Have 61 acres

Mark Wright 142 acres

503 acres total

Corn yield

Year	Acres	Bushels
1994	944	170
1995	952	104.5
1996	700	127.9
1997	1267	158.3
1998	631	140



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American Feed Industry Association
National Hay Association
The Agribusiness Association of Iowa

Referee Chemist, American Oil Chemists' Society
Approved Chemist, American Oil Chemists' Society

MANURE MANAGEMENT REPORT

NORTH LAGOON

Dealer Name:

Producer:

Lab. Number:

Date Received

Account No.:

Date Reported:

ANALYSIS RESULTS

	% Moisture	% NITROGEN	% P2O5	%K2O
AS RECEIVED BASIS:				
100% DRY MATTER BASIS:	0	10.00	10.00	50.00
POUNDS PER 1000 GALLONS:		0.83	0.83	4.15
1st year availability*	LBS./1000 GAL.	0.42	0.58	2.91

APPLICATION GUIDE

NUTRIENTS NEEDS (Based on ITL soil test)			
(Requirement for 150 Bu. Corn Crop)	180	90	185
Gallons required for each nutrient need (8.3lbs./Gallon)	433,700	154,900	63,700
Maximum Rate(Gallons)	433,700		
Minimum Rate(Gallons)	63,700		
Value per 1000 gallons of each Nutrient**			
	N-Price**	P-Price**	K-Price**
	\$0.18	\$0.25	\$0.12
	\$0.07	\$0.15	\$0.35

If the manure is to be used as a complete fertilizer select the highest of the three values as the application rate. For maximum use and efficiency, select the lowest of the values and supplement with commercial fertilizer.

First Year Value**		
Value/1000 Gallons		\$0.57
Cost of Application		Unknown
Net Value/ 1000 gallons		\$0.57
Net Value/ Acre Max. Rate		\$246.58
Net Value/ Acre Min. Rate		\$36.22
180	252	1260
26	37	185
150	50	0

NUTRIENTS APPLIED AT MAXIMUM RATE

NUTRIENTS APPLIED AT MINIMUM RATE

SUPPLEMENTED NUTRIENTS NEEDED***

* The availability of nutrients will depend on how often and application methods.

For information only, the above 1st year availability is using the following:

N=50%; P2O5 =70% and K2O = 70%. When filling out your MANURE MANAGEMENT PLAN, use the percentages for your specific application as stated in the PLAN.

Because of various uncontrolled factors in manure handling, application, and other conditions, Iowa Testing Laboratories, Inc. does not assume the liability for crop yield.

However, Iowa Testing Laboratories, Inc. does recommend the Iowa State

University Late Spring Nitrate Soil Test for nitrogen availability on all manure applied ground.

** Value would change with the price of commercial fertilizer materials.

*** At minimum application rate only.

Bruce Quaestehaus

Home 217-432-5625
mobile 217-252-8099

QUALITY PRODUCTS THROUGH QUALITY CONTROL



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American Feed Industry Association
National Hay Association
The Agribusiness Association of Iowa

Referee Chemist, American Oil Chemists' Society
Approved Chemist, American Oil Chemists' Society



MANURE MANAGEMENT REPORT

Dealer Name:

Producer:

South LA600N

Lab. Number:

Date Received

Account No.:

Date Reported:

ANALYSIS RESULTS

	% Moisture	% NITROGEN	% P2O5	%K2O
AS RECEIVED BASIS:				
100% DRY MATTER BASIS:	0	20.00	5.00	30.00
POUNDS PER 1000 GALLONS:		3.32	0.83	4.98
1st year availability*	LBS./1000 GAL.	1.66	0.58	3.49

APPLICATION GUIDE

NUTRIENTS NEEDS (Based on ITL soil test)
(Requireme for 150 Bu. Corn Crop)
Gallons required for each nutrient need (8.3lbs./Gallon)
Maximum Rate(Gallons) 154,900
Minimum Rate(Gallons) 53,100
Value per 1000 gallons of each Nutrient**

	180	90	185
	108,400	154,900	53,100
N-Price**	\$0.18	\$0.25	\$0.12
P-Price**	\$0.30	\$0.15	\$0.42

If the manure is to be used as a complete fertilizer select the highest of the three values as the application rate. For maximum use and efficiency, select the lowest of the values and supplement with commercial fertilizer.

First Year Value**	
Value/1000 Gallons	\$0.86
Cost of Application	Unknown
Net Value/ 1000 gallons	\$0.86
Net Value/ Acre Max. Rate	\$133.58
Net Value/ Acre Min. Rate	\$45.79
	257 90 540
	88 31 185
SUPPLEMENTED NUTRIENTS NEEDED***	90 60 0

NUTRIENTS APPLIED AT MAXIMUM RATE

NUTRIENTS APPLIED AT MINIMUM RATE

* The availability of nutrients will depend on how often and application methods.

For information only, the above 1st year availability is using the following:

N=50%; P2O5 =70% and K2O = 70%. When filling out your MANURE MANAGEMENT PLAN, use the percentages for your specific application as stated in the PLAN.

Because of various uncontrolled factors in manure handling, application, and other conditions, Iowa Testing Laboratories, Inc. does not assume the liability for crop yield.

However, Iowa Testing Laboratories, Inc. does recommend the Iowa State

University Late Spring Nitrate Soil Test for nitrogen availability on all manure applied ground.

** Value would change with the price of commercial fertilizer materials.

*** At minimum application rate only.

QUALITY PRODUCTS THROUGH QUALITY CONTROL

This soil survey map was compiled by the U.S. Department of Agriculture, Soil Conservation Service, and cooperating agencies. Base maps are prepared from 1983 - 1986 aerial photography. Coordinate grid ticks and land division corners, if shown, are approximately positioned.

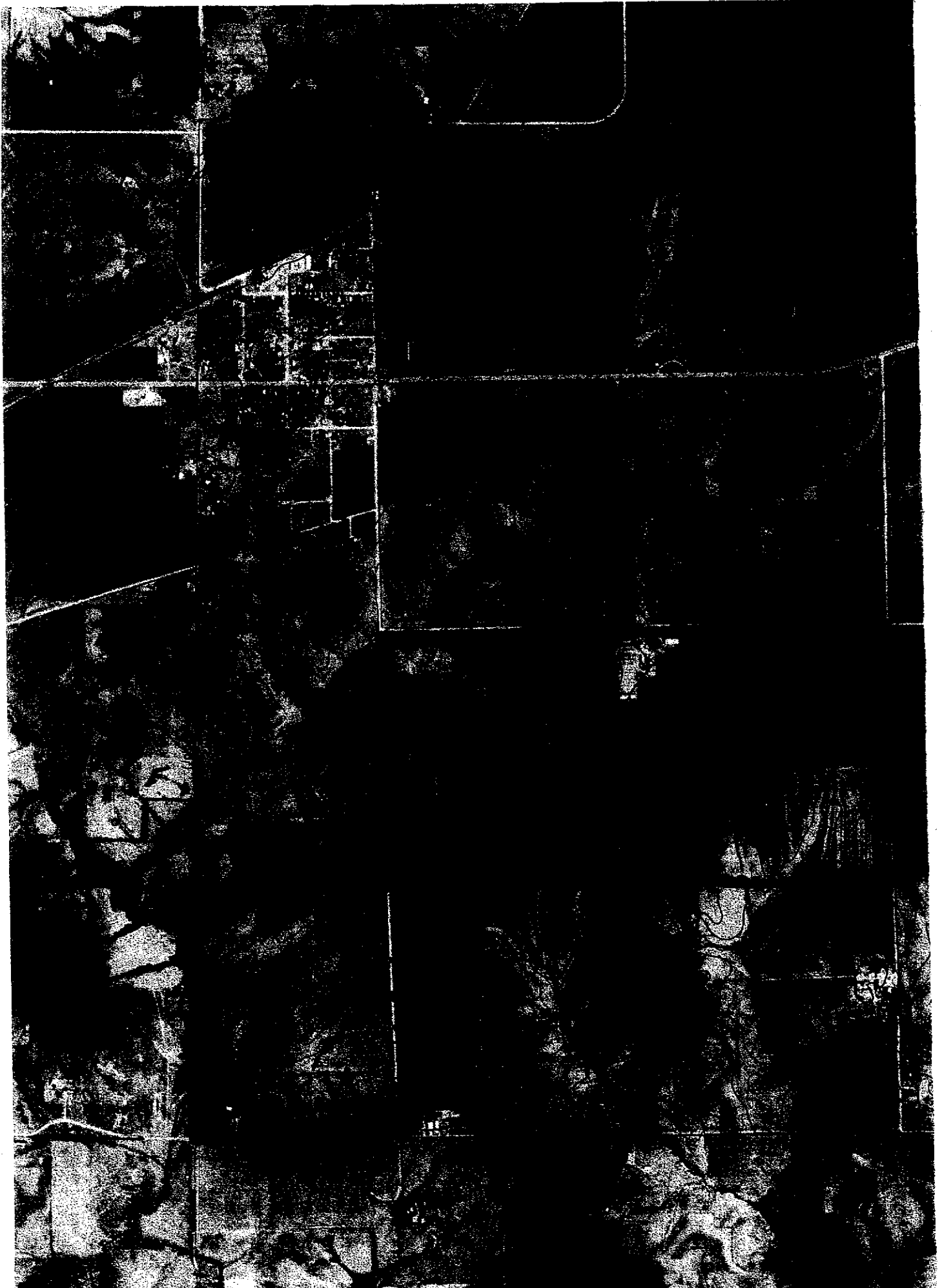


TABLE A.--AGE AND PROPORTIONATE EXTENT OF THE SOILS

Map symbol	Soil name	Depth to Water table	Acres	Percent
6C2	Flashhook silt loam, 5 to 10 percent slopes, eroded-----	1-3' perched	15,780	3.0
7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded-----	1-2' perched	3,920	0.8
8D2	Hickory loam, 10 to 18 percent slopes, eroded-----		5,340	1.0
8F	Hickory loam, 18 to 30 percent slopes-----		28,710	5.5
8G	Hickory loam, 30 to 60 percent slopes-----		4,010	0.8
17A	Keomah silt loam, 0 to 2 percent slopes-----		7,870	1.5
17B	Keomah silt loam, 2 to 5 percent slopes-----		1,400	0.3
17B2	Keomah silt loam, 2 to 5 percent slopes, eroded-----		10,050	1.9
36B	Tama silt loam, 2 to 5 percent slopes-----		3,200	0.6
36B2	Tama silt loam, 2 to 5 percent slopes, eroded-----		3,690	0.7
37A	Worthen silt loam, 0 to 2 percent slopes-----		590	0.1
37B	Worthen silt loam, 2 to 5 percent slopes-----		610	0.1
41A	Muscataine silt loam, 0 to 2 percent slopes-----		20,140	3.9
41B2	Muscataine silt loam, 2 to 5 percent slopes, eroded-----		7,520	1.4
43A	Ipava silt loam, 0 to 2 percent slopes-----	1-3' apparent	47,130	9.0
43B	Ipava silt loam, 2 to 5 percent slopes-----	1-3' apparent	670	0.1
43B2	Ipava silt loam, 2 to 5 percent slopes, eroded-----	1-3' apparent	24,380	4.7
46A	Herrick silt loam, 0 to 2 percent slopes-----	1-3' apparent	22,800	4.4
50	Virden silty clay loam-----	5-8' apparent	38,940	7.5
61A	Atterberry silt loam, 0 to 2 percent slopes-----		4,290	0.8
61B2	Atterberry silt loam, 2 to 5 percent slopes, eroded-----		4,730	0.9
68	Sable silty clay loam-----		10,280	2.0
88B	Sparta loamy fine sand, 1 to 5 percent slopes-----		1,150	0.2
112	Cowden silt loam-----	5-8' apparent	7,830	1.5
119C2	Elco silt loam, 5 to 10 percent slopes, eroded-----		3,980	0.8
134B	Camden silt loam, 2 to 5 percent slopes-----		1,310	0.3
134C2	Camden silt loam, 5 to 10 percent slopes, eroded-----		430	0.1
138	Shiloh silty clay-----		1,020	0.2
250D2	Velma loam, 10 to 15 percent slopes, eroded-----		880	0.2
257A	Clarksdale silt loam, 0 to 2 percent slopes-----	1-3'	18,990	3.6
257B	Clarksdale silt loam, 2 to 5 percent slopes-----		570	0.1
257B2	Clarksdale silt loam, 2 to 5 percent slopes, eroded-----	1-3'	22,530	4.3
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded-----	2.5-4.5 perched	5,110	1.0
268B	Mt. Carroll silt loam, 2 to 5 percent slopes-----		270	0.1
274A	Seaton silt loam, 0 to 2 percent slopes-----		340	0.1
274B	Seaton silt, 2 to 5 percent slopes-----		2,980	0.6
274C2	Seaton silt loam, 5 to 10 percent slopes, eroded-----		2,430	0.5
274D3	Seaton silt loam, 10 to 18 percent slopes, severely eroded-----		970	0.2
278A	Stronghurst silt loam, 0 to 2 percent slopes-----		830	0.2
279B	Rozetta silt loam, 2 to 5 percent slopes-----		28,390	5.4
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded-----		19,820	3.8
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded-----		2,740	0.5
379B	Dakota loam, 1 to 5 percent slopes-----		240	*
386B	Downs silt loam, 2 to 5 percent slopes-----	2.5-4.5 perched	9,130	1.8
417G	Derinda silt loam, 30 to 60 percent slopes-----		1,160	0.2
440B	Jasper loam, 1 to 5 percent slopes-----		470	0.1
440C2	Jasper fine sandy loam, 5 to 10 percent slopes, eroded-----		300	0.1
470C2	Keller silt loam, 5 to 12 percent slopes, eroded-----		12,990	2.5
516	Faxon silty clay loam-----		50	*
605E3	Ursa clay loam, 15 to 22 percent slopes, severely eroded-----		4,160	0.8
647A	Lawler clay loam, bedrock substratum, 0 to 2 percent slopes-----		250	*
660C3	Coatsburg silty clay loam, 5 to 10 percent slopes, severely eroded-----		1,710	0.3
785C	Lacrescent silt loam, 5 to 10 percent slopes-----		140	*
785G	Lacrescent cobbly silt loam, 30 to 60 percent slopes-----		1,610	0.3
802B	Orthents, loamy, gently sloping-----		280	0.1
802F	Orthents, loamy, steep-----		210	*
864	Plts, quarries-----		180	*
874F	Dickinson-Hamburg complex, 10 to 60 percent slopes-----		330	0.1
915D2	Elco-Ursa complex, 10 to 15 percent slopes, eroded-----	2.5-4.5 perched	9,250	1.8
936F	Fayette-Hickory complex, 15 to 30 percent slopes-----		5,180	1.0
936G	Fayette-Hickory complex, 30 to 60 percent slopes-----		1,760	0.3
937F	Seaton-Hickory complex, 15 to 30 percent slopes-----		1,540	0.3
937G	Seaton-Hickory complex, 30 to 60 percent slopes-----		1,690	0.3

See footnote at end of table.

Taken from
Soil
Interpretation
records at
NRCS

TABLE A.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	Percent
971D3	Fishhook-Atlas complex, 10 to 15 percent slopes, severely eroded-----	11,040	2.1
1070	Beaucoup silty clay loam, undrained-----	940	0.2
3070	Beaucoup silty clay loam, frequently flooded-----	1,950	0.4
3073	Ross silt loam, frequently flooded-----	590	0.1
3107	Sawmill silty clay loam, frequently flooded-----	3,430	0.7
3284	Tice silty clay loam, frequently flooded-----	1,390	0.3
3331	Maymond silt loam, frequently flooded-----	780	0.1
3333	Wakeland silt loam, frequently flooded-----	4,830	0.9
3334	Birds silt loam, frequently flooded-----	1,220	0.2
3415	Orion silt loam, frequently flooded-----	540	0.1
3428	Coffeen silt loam, frequently flooded-----	9,260	1.8
3451	Lawson silt loam, frequently flooded-----	10,860	2.1
3452	Riley silty clay loam, frequently flooded-----	830	0.2
3789	Volney silt loam, overwash, bedrock substratum, frequently flooded-----	770	0.1
7430	Raddle silt loam, rarely flooded-----	240	*
8070	Beaucoup silty clay loam, occasionally flooded-----	1,240	0.2
8071	Darwin silty clay, occasionally flooded-----	180	*
8077	Huntsville silt loam, occasionally flooded-----	330	0.1
8092	Sarpy loamy sand, occasionally flooded-----	490	0.1
8107	Sawmill silty clay loam, occasionally flooded-----	1,510	0.3
8162	Gorham silty clay loam, occasionally flooded-----	1,600	0.3
8284	Tice silt loam, occasionally flooded-----	2,140	0.4
8304	Landes loam, occasionally flooded-----	790	0.2
8404	Titus silty clay loam, occasionally flooded-----	2,400	0.5
8405	Zook silty clay loam, occasionally flooded-----	2,080	0.4
8415	Orion silt loam, occasionally flooded-----	1,150	0.2
8451	Lawson silt loam, occasionally flooded-----	560	0.1
8452	Riley silt loam, occasionally flooded-----	1,010	0.2
8682	Medway loam, occasionally flooded-----	2,860	0.5
W	Water-----	865	0.2
W>40	Water, greater than 40 acres-----	12,095	2.3
	Total-----	521,220	100.0

* Less than 0.1 percent.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 Mary A. Gade, Director

217/782-0610

September 8, 1998

JK Pork, Inc.
c/o Dan Carlisle
2041 N. County Road 1800
Carthage, IL 62321

Re: JK Pork, Inc. - NPDES Permit No. IL0072648
Notice of Incomplete Submission

Dear Mr. Carlisle

The Application for Permit received October 30, 1997 and the waste management plan of October 29, 1997 for the above listed project have been reviewed and have been determined to be an incomplete submission for purposes of review towards the issuance of a NPDES Permit.

The following specific additional information must be submitted within 30 days in order that we may continue our review:

1. Please indicate any projected changes to the size of the operation pursuant to Section 502.201 of Subtitle E. If any changes are anticipated, provide an estimated schedule for those changes. Please provide details of any changes to the facility size or operations that are not covered by the submittal received by the Agency on October 30, 1997.
2. Please submit a plat map or USGS map indicating the location and acreage of each land application area proposed in the waste management plan.
3. Please provide a description of the equipment and methods for the land application of the livestock waste.
4. Please submit soil survey maps and soil descriptions from a soil survey for each land application site.
5. Provide the slope of each land application site.
6. Please indicate the depth to seasonal high or mean annual water table for each land application site.
7. Please depict on the maps of the land application sites the location of waterways, streams, lakes and other surface waters.

Page 3

J. Pork, Inc. - NPDES Permit No. IL0072648

Notice of Incomplete Submission

application rate (e.g., gallons/acre) of the livestock waste. Please revise the calculations indicating the application rate to be used.

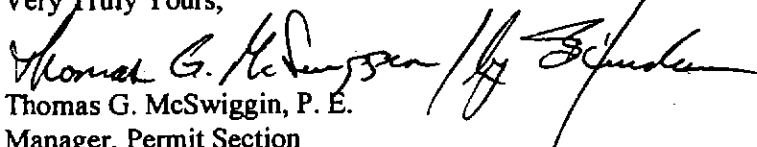
- F. Please indicate the points of withdrawal of the livestock waste from the livestock waste handling facilities (i.e., surface of lagoons, manure pits, etc.).

The Agency also has received a plan that was prepared by NRCS dated September 5, 1997. Please indicate if this plan will be used by your facility. If so, indicate the specific components that will be used so that the Agency can complete its review. Some components of the September, 1997 plan differ from the plan dated October 29, 1997. These differences would need to be resolved if both plans will be used.

If for any reason you cannot supply the above requested information within the time period allowed, please explain the reasons in writing and state when the information will be submitted. Failure to respond within the specified time period could be cause for Denial of your NPDES Permit. Include on all correspondence the above proposed NPDES Permit No.

If you have any questions or comments concerning the content of this letter, please contact Dan Heacock of my staff at the telephone number and address shown above.

Very Truly Yours,



Thomas G. McSwiggin, P. E.
Manager, Permit Section
Division of Water Pollution Control

TGM/DLH/jkpork2.doc

cc: DWPC/FOS Region 3
Chuck Gunnarson/DLC
Records Unit

To: IEPA

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OCT 30 1997

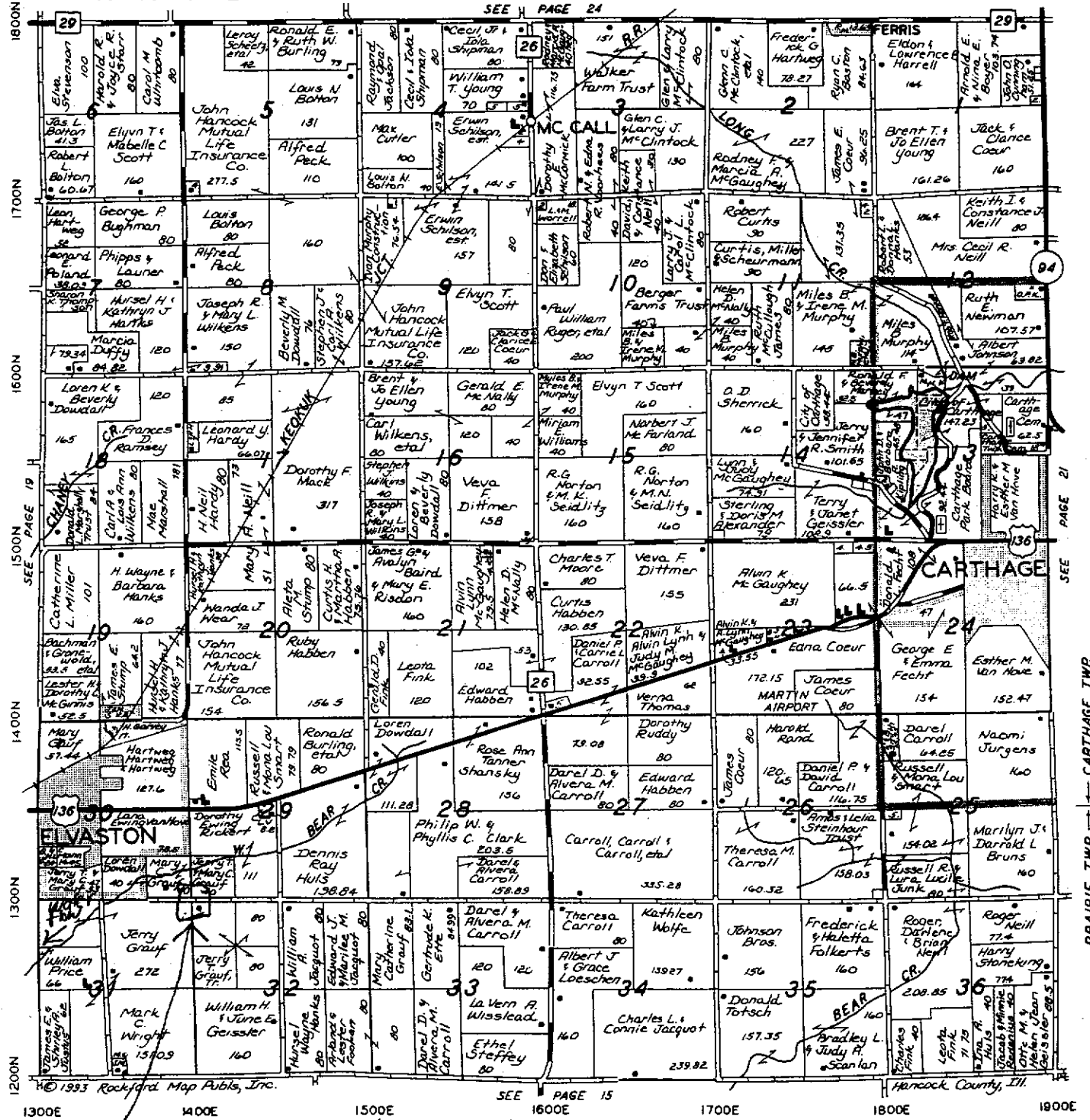
From: Dan Carlisle, Perry Graut

Environmental Protection Agency
WPC- Permit Log In

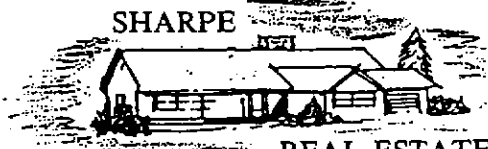
Enclosed are the applications for the NPDES permit. Plat maps are enclosed to show the water flow from this facility for Prairie and Montebello townships. There are also detailed maps of the swine unit showing the lagoons. These maps also show where runoff from feed lots enter the lagoons, and the drain pipes from the buildings enter the lagoons. If you need more information feel free to contact me at anytime.

Respectfully,
Dan Carlisle

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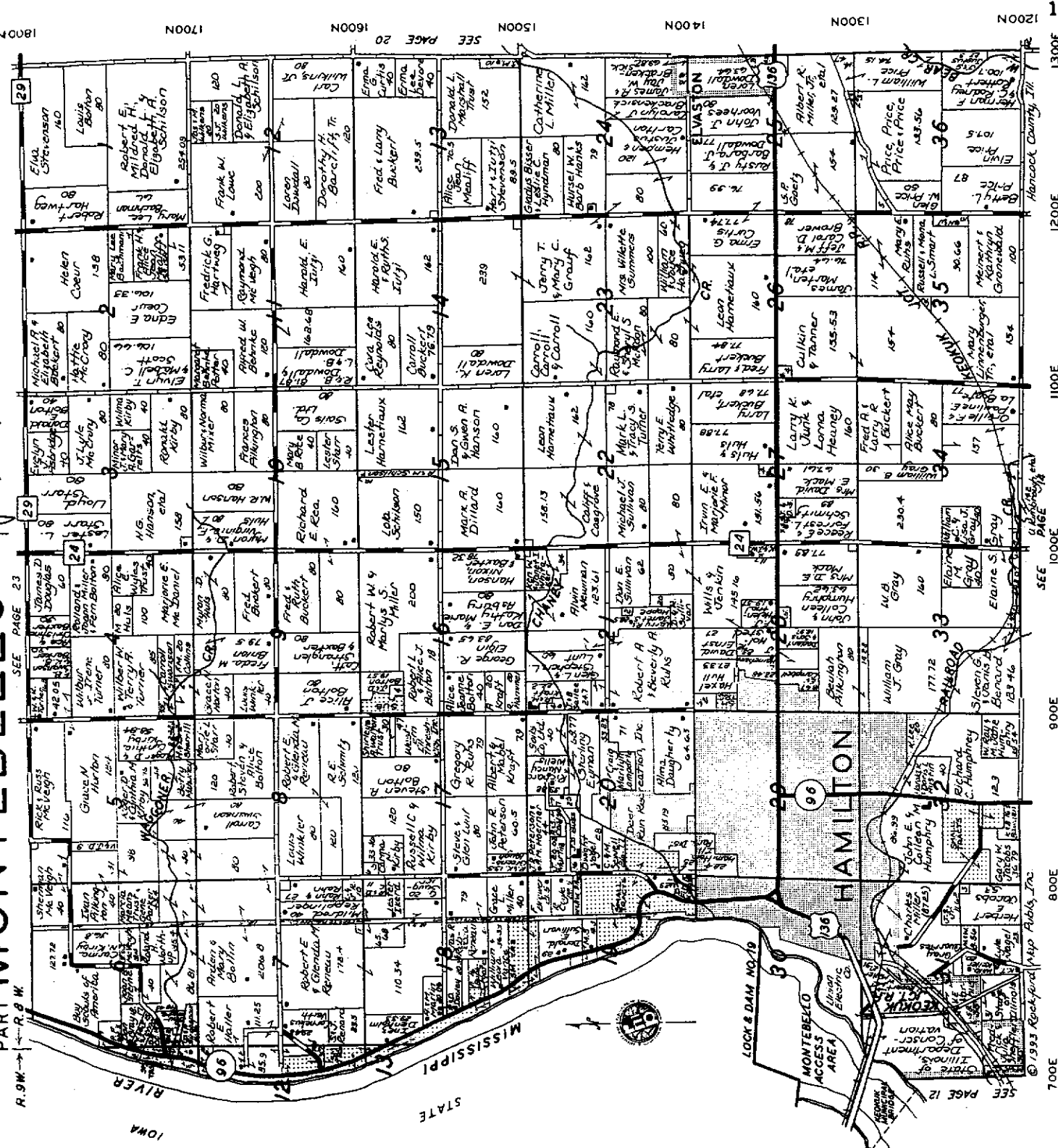
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R. 9 W. → ← R. 8 W.

SEE PAGE 23

SEE PAGE 20



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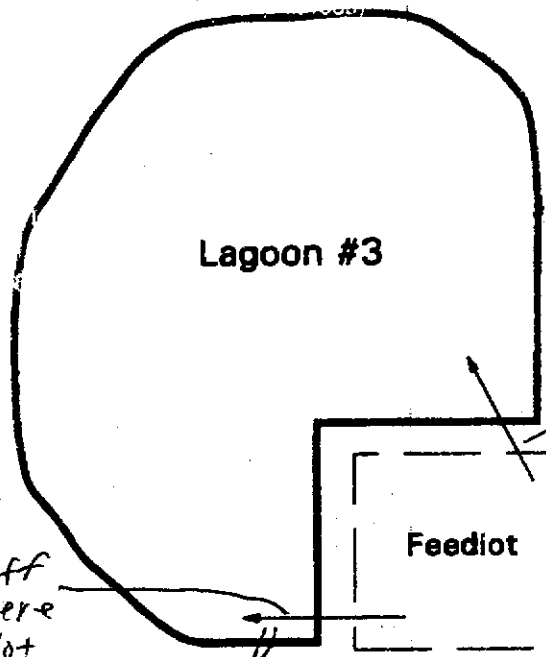
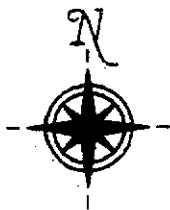
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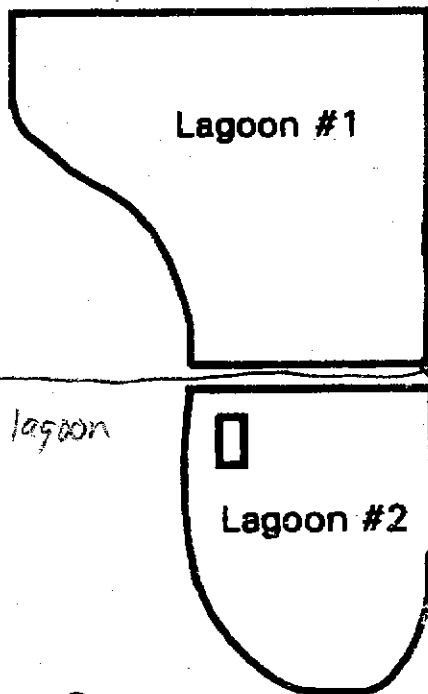
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29600E



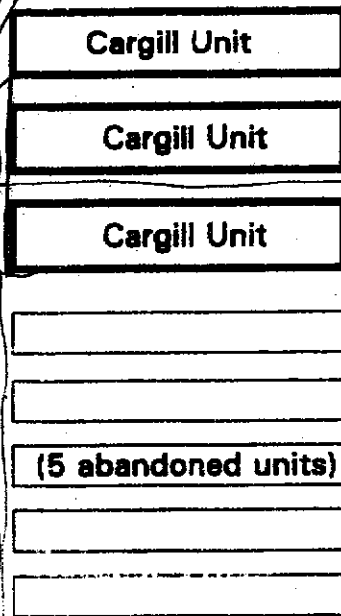
gravel road

1300 N



Lagoon #1

Lagoon #2



Cargill Unit

Cargill Unit

Cargill Unit

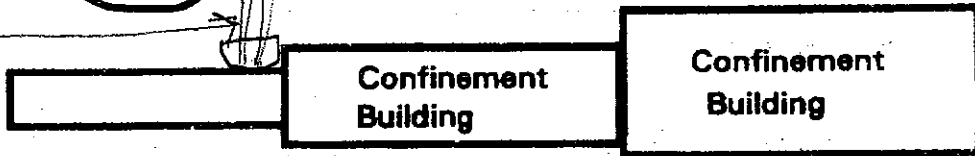
(5 abandoned units)

Settling basin
for cargill floors,
liquid from floors
enters in this
location.

residence

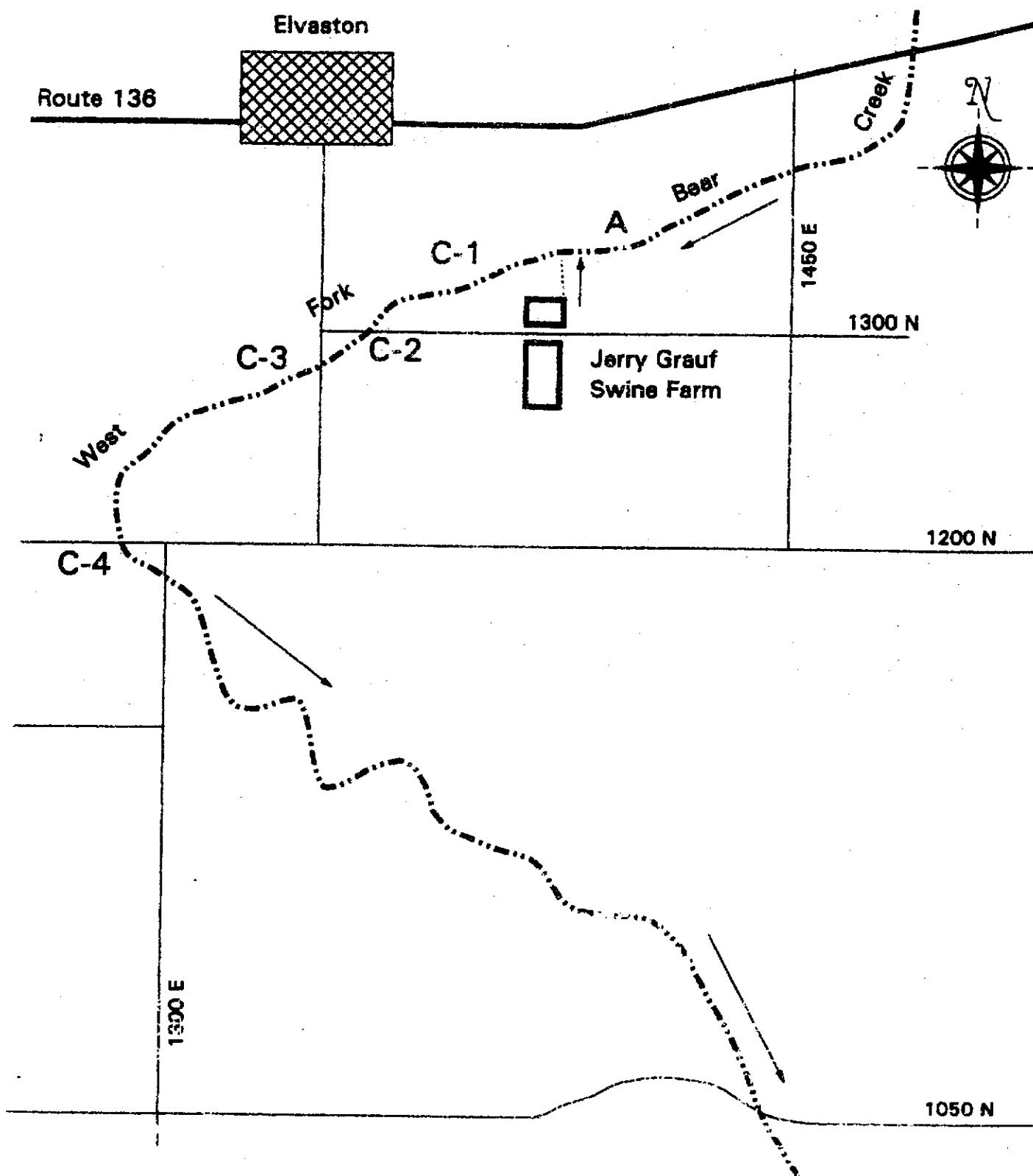
Drain from
Buildings to lagoon
#3

Drain from
buildings to
Lagoon #1



Confinement
Building

Confinement
Building



LEPA - Peoria

To: Dan Heacock

Permits - DWPC

October 29, 1997

To: IEPA

From: Dan Carlisle, Jerry Grauf

Enclosed you will find a waste management plan for the JK Pork, Inc./Jerry Grauf Swine Farm. The plan was calculated on current practices and the current inventory the farm has at this time. Due to changes in inventory and changes that may be made with application there may be changes made in this plan from time to time. Lagoon #1 and #2 have already been dewatered this fall. An adequate amount of water from lagoon #3 will be transferred to lagoon #1 and #2 to keep those lagoons operating properly. There has been enough manure removed from #1 and #2 to keep those lagoons operating properly. If more dewatering is needed next spring or summer it will be done. The primary time of application will be in the fall. Lagoon markers will be monitored and lagoons will be dewatered as needed if it needs to be done before fall application. If you have any questions feel free to contact us at anytime.

Respectfully,


Dan Carlisle

Jerry Grauf Swine Farms
Hancock County

CC: - Chuck Gunnarson }
- Tom Davis } cover page
- DWPC/FOS & RU } only