#### BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Nathan Wiegand Farm	)	
(Property Identification Number	)	PCB No. 21
11-33-100-002)	)	(Tax Certification)
•	)	

#### **NOTICE OF FILING**

TO: See attached Certificate of Service.

PLEASE TAKE NOTICE that I have today electronically filed with the Office of the Clerk of the Illinois Pollution Control Board Illinois EPA's <u>NOTICE OF FILING</u>, <u>APPEARANCE</u>, <u>RECOMMENDATION</u>, and <u>CERTIFICATE OF SERVICE</u>, copies of which are herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: \_/s/ Gabriel H. Neibergall
Gabriel H. Neibergall
Assistant Counsel
Division of Legal Counsel
Gabriel.Neibergall@illinois.gov

DATED: February 16, 2021

1021 N. Grand Ave. East P.O. Box 19276 Springfield, IL 62794-9276 (217) 782-5544

#### BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Nathan Wiegand Farm	)	
(Property Identification Number	)	PCB No. 21-
11-33-100-002)	)	(Tax Certification)
	)	

#### **APPEARANCE**

The undersigned, as one of its attorneys, hereby enters an Appearance on behalf of the Illinois Environmental Protection Agency.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: \_/s/ Gabriel H. Neibergall

Gabriel H. Neibergall Assistant Counsel Division of Legal Counsel

Gabriel.Neibergall@illinois.gov

DATED: February 16, 2021

Gabriel H. Neibergall, #6323183 Division of Legal Counsel Illinois Environmental Protection Agency 1021 N. Grand Ave. East P.O. Box 19276 Springfield, IL 62794-9276 (217) 782-5544 Gabriel.Neibergall@illinois.gov

#### BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Nathan Wiegand Farm	)	
(Property Identification Number	)	PCB No. 21-
11-33-100-002)	)	(Tax Certification)
	)	

#### **RECOMMENDATION**

The Illinois Environmental Protection Agency ("Illinois EPA") hereby files its Recommendation pursuant to Section 125.204 of the regulations of the Illinois Pollution Control Board ("Board"), 35 Ill. Adm. Code 125.204.

- 1. On December 24, 2019, the Illinois EPA received a request from Nathan Wiegand Farm (log number TC-142138, Exhibit A) for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204.
- 2. The facility's address is:

  Nathan Wiegand Farm
  2157 County Highway 5
  Roanoke, IL 61561

The proposed water pollution control facilities in this request are located in the NW ¼ of Section 33, T27N, R1E of the 3rd P.M. in Woodford County, at the above street address and consist of the following:

Livestock waste handling facilities consisting of three adjoining and connected reinforced concrete pits that are located below a single building housing two swine gestation rooms and one farrowing room. The first concrete pit (approximately 115 ft. x 79.25 ft. x 10 ft.; 9,000 sq. ft. concrete slatted flooring) has three pump out pits (each approximately 6 ft. x 6 ft. x 10 ft.) to allow manure removal from the manure pit, and approximately 364 linear feet of 10 inch Form-A-Drain tile around the perimeter to prevent flotation of the pit. The second and third concrete pits (each approximately 33.5 ft. x 79.25 ft. x 6 ft.; 2,621 sq. ft. plastic slatted flooring) have one pump out pit each (both approximately 6 ft. x 6 ft. x 6 ft.), and approximately 85 linear feet of 10 inch Form-A-Drain tile.

- These livestock waste management facilities are used to collect, transport, and/or store livestock waste prior to cropland application, and are further described in Exhibit A.
- 3. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2018), and Section 125.200(a) of the Board's regulations, 35 Ill. Adm. Code 125.200(a), define "pollution control facilities" as:

any system, method, construction, device or appliance appurtenant thereto or any portion of any building or equipment, that is designed, constructed, installed or operated for the primary purpose of: eliminating, preventing, or reducing air or water pollution ...or treating, pretreating, modifying or disposing of any potential solid, liquid or gaseous pollutant which if released without treatment, pretreatment modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property.

- In order to receive preferential tax treatment as pursuant to 35 ILCS 200/11-5 (2018), pollution control facilities must be certified as such by the Board, 35 ILCS 200/11-20 (2018) and 35 Ill. Adm. Code 125.200(a).
- 5. Upon receipt of a tax certification application, the Illinois EPA must file a recommendation on the application with the Board, 35 Ill Adm. Code 125.204(a).
- Based on the information in the application and the purpose of the facility, it is the Illinois EPA's engineering judgment that the described facilities may be considered "pollution control facilities," pursuant to 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and are eligible for tax certification from the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the requested tax certification.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: /s/ Gabriel H. Neibergall
Gabriel H. Neibergall
Assistant Counsel
Division of Legal Counsel

Gabriel.Neibergall@illinois.gov

DATED: February 16, 2021

Gabriel H. Neibergall, #6323183 Division of Legal Counsel Illinois Environmental Protection Agency 1021 N. Grand Ave. East P.O. Box 19276 Springfield, IL 62794-9276 (217) 782-5544 Gabriel.Neibergall@illinois.gov 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397 JOHN J. KIM, DIRECTOR JB PRITZKER, GOVERNOR

#### Memorandum

To:

Mike Roubitchek, Division of Legal Counsel

From: Darin E. LeCrone, P.E., Manager, Industrial Unit, Permit Section, Division of Water Pollution

Control

Date:

August 17, 2020

Re:

Nathan Wiegand Farm - Roanoke Recommendation of Tax Certification

Log # TC-142138

BOW ID # W2038010001

Property Identification # 11-33-100-002

The Bureau of Water received a request on December 24, 2019 from Nathan Wiegand Farm, having a principal place of business at 2157 County Highway 5, Roanoke, IL 61561, for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 II. Adm. Code 125.204. We offer the following recommendation.

The water pollution control facilities in this request include the following:

Nathan Wiegand Farm 2157 County Highway 5 Roanoke, IL 61561

NW 1/4 of Section 33, Township 27-North, Range 1-East of the East 3rd PM in Woodford County.

Livestock waste management facilities consisting of 3 adjoining and connected reinforced concrete pits which are located below a single building housing 2 swine gestation rooms and 1 farrowing room and as further described below:

One (1) concrete livestock waste pit measuring 115 ft. (length) x 79.25 ft. (width) x 10 ft. (depth) with 3 concrete pump out pits approximately 6 ft. (length) x 6 ft. (width) x 10 ft. (depth) and approximately 364 linear feet of 10 inch Form-a-Drain foundation perimeter drain tile and approximately 9,000 sq. ft. of concrete slatted flooring over this manure pit.

Two (2) concrete livestock waste pits each measuring 33.5 ft. (length) x 79.25 ft. (width) x 6 ft. (depth) with 1 concrete pump out pit approximately 6 ft. (length) x 6 ft. (width) x 6 ft. (depth) and approximately 85 linear feet of 10 inch Form-a-Drain foundation perimeter drain tile and approximately 2,621 sq. ft. of plastic slatted flooring over each manure pit.

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this

Page No. 2 Tax Certification Recommendation Log No. TC-142138

section, and therefore eligible for tax certification from the Illinois Pollution Control Board. The Bureau of Water therefore recommends that the Board issue the requested tax certification for these facilities.

If you have any questions regarding the above, please contact Darren Gove at 217/782-0610.

DRG:TC-142138\_Tax Cert Recommendation\_24Dec19.docx

cc: Tax Cert File

# Illinois EPA - Bureau of Water - Division of Pollution Control Title 35 Subtitle A Part 125 Tax Certifications Illinois EPA Review Notes for:

# Agency Recommendation of Pollution Control Facilities.

BOW ID #: W2038010001

Project Name: Nathan Wiegand Farm

Date application received: 12/24/2019

Reviewer: DRG

Log number: TC-142138

Legal Description:

NW 1/4 of Section 33 Twp: 27-North Range: 1-

East PM:

County: Woodford

Facility Contact:

Phone: Laura Wiegand 309-261-2753

Pollution Control Facility Type:

Swine Livestock Waste Management Facility

Property ID: 11-33-100-002

Applicant: Nathan Wiegand Farm

2157 County Highway 5 Roanoke, IL 61561

Facility: Nathan Wiegand Farm

2157 County Highway 5 Roanoke, IL 61561

Date Control Devices installed: June 2015

Application Signature by: Nathan Wiegand

Title: Owner

Contents of Application: 3-page form, 7 pages (8.5x11) of construction diagram and narrative, livestock

documentation from IDOA, Woodford county Not. Of Tax assessment PTAx

228 and livestock waste testing results. Additional info rec'd 1/3/2020 provided process flow diagram and information on form-a drain.

Is there a pollutant control flow diagram? Yes

Is there sufficient diagrams showing the pollution control facilities? Yes

This facility generates the following pollutants and prevents their discharge as indicated:

Livestock waste is collected and land applied to cropland.

# Physical description of pollution control facilities that ARE recommended:

Livestock waste management facilities consisting of 3 adjoining and connected reinforced concrete pits below a single building housing 2 swine gestation rooms and 1 farrowing room and as further described below:

One (1) concrete livestock waste pit measuring 115 ft. (length) x 79.25 ft. (width) x 10 ft. (depth) with 3 concrete pump out pits approximately 6 ft. (length) x 6 ft. (width) x 10 ft. (depth) and approximately 364 linear feet of 10 inch Form-a-Drain foundation perimeter drain tile and approximately 9,000 sq. ft. of concrete slatted flooring over this manure pit.

Two (2) concrete livestock waste pits each measuring 33.5 ft. (length) x 79.25 ft. (width) x 6 ft. (depth) with 1 concrete pump out pit approximately 6 ft. (length) x 6 ft. (width) x 6 ft. (depth) and approximately

Illinois EPA Log #: TC-142138

Page 2 of 2

85 linear feet of 10 inch Form-a-Drain foundation perimeter drain tile and approximately 2,621 sq. ft. of plastic slatted flooring over each manure pit.

#### Notes:

Pages 5 thru 9 of the Frank and West construction drawing set were guiding in determining the description of the facilities. An Illinois DOA initial notice of plan completion issued 4/30/2015 described the facility as two facilities consisting of one gestation building and one farrowing bldg. The supplied plans do not confirm the IDOA document description; therefore, the plan set was used.

Nothing follows – DRG - (June 10, 2020)

# **Woodford County Notice of Property Assessment PTAX-228**

Mary Bell, Supervisor of Assessments 115 North Main Street, Room 101 Eureka, IL 61530 (309) 467-3708 8:00 a.m. to 5:00 p.m., Mon. - Fri.

678

DEC 24 2019

WIEGAND, ROY & JAN 2254 COUNTY ROAD 1100N SECOR, IL 61771

Taxpayer of Record: WIEGAND, ROY & JAN

Date of Notice: 10/05/2016

Parcel Index No. (PIN): 11-33-100-002

Property Class: 0011

	Equaliza	ed Assessed Valuatio	n (EAV)		
	(2015) Prior Year	ear (2016) Current Year Valued on 01/01/2016		Percent Change from	
Property Type	Board of Review	Township/ Multi-township assessor	Chief County Assessment Officer	Prior Year to Current Year valuations	Reason for Current Year's valuation change
Land/lot or farm homesite	0	0	0		New Impr(s) Com
Buildings/Structures	0	0	Ö		1
Farmland	66	75	75		1
Farm buildings/structures	7,810	203,619	203,619		
Total	7,876	203.694	203,694	2486.26%	1

2016 Full Fair Cash Value \$0

The current year's values are based upon 3 years of sales transactions from 2013 to 2015, and includes a local equalization factor (multiplier) of 1.0065 for Greene. (See page 2 for explanation.) Assessment changes after equalization will be published in the Woodford County Journal newspaper on 10/20/2016. Newspaper's price per copy by mail is \$3.00

#### Steps to Review and Appeal Your Property's Assessment

Step 1. Review your property's records	A detailed description and assessment records of all parcels within your Township are available in the Woodford Count Assessor's office during regular business hours. Detailed records are available on the internet at www.Woodford-Count					
Step 2. Questions? Contact your assessor to discuss your	If you believe the full fair market value of your property is incorrect, or its assessed value is not uniform with other comparable properties in your area, or an error has been made, (e.g., property characteristics), you should first talk to your assessor.					
property's assessment.	Supervisor of Assessments Office 115 North Main Street, Room 101 Eureka, IL 61530 Office hours: 8:00 a.m. to 5:00 p.m. Phone: (309) 467-3708 www.Woodford-County.org					
Step 3. File an assessment appeal with the Board of Review. The deadline to file	Before filing an assessment appeal, an attempt should be made to review the details of your property with your local assessor. If you are not satisfied with that informal review, you may appeal your assessment to the Board of Review. Appeals must be filed by the deadline (30 days after the publication date of the assessment changes by CCAO in the newspaper). If you tile late, your appeal will not be heard. Contact the Board of Review for Rules of the Board of Review an complaint forms.					
your appeal is 11/21/2016.	Board of Review Phone: (309) 467-3708 115 North Main Street, Room 101 www.Woodford-County.org Eureka, IL 61530					
Step 4. Attend hearing	Present your evidence at Board of Review hearing.					
Step 5. Notice of Final Decision by Board of Review.	The Board of Review will mail you a notice of its decision. You have 30 days from the postmark date of the notice to file a appeal with the state Property Tax Appeal Board.					

New Barn

· 2018 WOODFORD COUNTY REAL ESTATE TAY BULL

IST INSTALLM DUE DATE	ENT 06/14/2019	2ND INSTALLME	NT 09/06/2019	CLASS CODE	0011
AMOUNT	\$8,051.14	AMOUNT	\$8,051.14	TOWNSHIP	Greene
BACK TAXES		PENALTIES		ACREAGE	2,74
TOTAL PAID	\$0.00	TOTAL PAID	\$0.00	TAX CODE	11006

ASSESSED TO: WIEGAND, ROY & JAN MAIL TO:

WIEGAND, ROY & JAN **2254 COUNTY ROAD 1100N** 

**SECOR IL 61771** 

2017 TAX AMO	JNT TAXING BODIES	TAX RATE	2018 TAX AMOUNT	PENSION
1,085.13 1,004.47 11,374.13 1,009.16 403.75 30.15 528.82 763.29	WOODFORD COUNTY ICC514 EL PASO-GRIDLEY U11 SECOR FIRE DISTRICT EL PASO DISTRICT LIBRARY LIN/CL/GR/PAN MTA GREENE TOWNSHIP GREENE ROAD DISTRICT	0.5211 0.4848 5.5701 0.4946 0.2016 0.0145 0.2317 0.3858	1,061.58 987.62 11,347.30 1,007.59 410.70 29.54 472.01 785.94	199.04 15.69 523.55 0.00 0.00 0.00 0.00
16,198.90	*TOTALS**	7.9042	16,102,28	0.00

#### WOODFORD COUNTY COLLECTOR **MELISSA ANDREWS**

115 N MAIN STREET, SUITE 105 EUREKA, ILLINOIS 61530-1287 PHONE (309)467-4621 FAX (309)467-4728

**TAX YEAR: 2018** 

PARCEL NUMBER:

11-33-100-002

FAIR CASH VALUE		0
LAND VALUE	1	0
BUILDING VALUE		0
TOTAL VALUE		0
HOME IMPIVET EXEM	-	0
STATE MULTIPLIER	×	1.0000
STATE EQUAL VALUE	=	¥ 5 0
SENIOR TAX FR EX	-	0
OWNER OCCUP EXEM	-	0
SENIOR CITIZEN EX	-	0
RETURNING VETERAN		0
DISABLED/DISABLED VET	r -	0
NATURAL DISASTER EX	-	0
FARM LAND VALUE	+	99
FARM BLDG VALUE	+	203,619
NET TAXABLE VALUE	=	203,718
TAX RATE	х	7.9042
TOTAL 2018 TAX		\$16,102.28
DRAINAGE TAX		\$0.00
FORFEITED TAX		
LOTAL AMOUNT DUE		\$16,102.28

# RETURN THIS PORTION WITH 1ST INSTALLMENT PAYMENT

PARCEL NUMBER:

11-33-100-002

PAID BY		DUE DATE		FORFEITED TAXES		
		06/14/2019				
	اللا	FOR THE YEA	FOR THE YEAR		HENT	
CASH	CHECK	1/2	2018		\$8,051.14	
X here if paid by other than assessed to		TAX CODE	11006	PENALTY	COSTS	
		TOTAL TAX	\$16,102.28	TOTAL PAID	\$0.00	
See Reverse side for Name and Address Corrections.				BALANCE DUE	\$8,051.14	

POSTMARKED AFTER

06/14/2019 07/14/2019 08/14/2019

\$8,171.91 \$8,292,67

WIEGAND, ROY & JAN 2254 COUNTY ROAD 1100N **SECOR IL 61771** 

#### RETURN THIS PORTION WITH 2ND INSTALLMENT PAYMENT PARCEL NUMBER: 11-33-100-002

PAID BY **DUE DATE** FORFEITED TAXES 09/06/2019 FOR THE YEAR SECOND INSTALLMENT CASH CHECK 2018 \$8,051.14 TAX CODE X here if paid PENALTY COSTS by other than 11006 assessed to TOTAL TAX TOTAL PAID \$16,102.28 \$0.00 See Reverse side for BALANCE DUE Name and Address Corrections. \$8,051.14

POSTMARKED AFTER PLEASE PAY

09/06/2019 10/06/2019

\$8,171.91 Contact Office WIEGAND, ROY & JAN 2254 COUNTY ROAD 1100N **SECOR IL 61771** 





18-306-9755

NOV 02, 2018
RECEIVED DATE
Oct 31, 2018

39734

NATHAN WIEGAND NATHAN WIEGAND 2157 COUNTY HWY 5 ROANOKE JL 61561



PAGE 1/1

Nov 02, 2018

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 www.midwestlabs.com

> Nutrient Land Application For: (39734) NATHAN WIEGAND MANURE TEST

Sample ID: NEW BARN

Lab Number: 10142076

Pounds of Nutrient AR Est. First Year

f desirable of tentral property and the same						
	Analysis	per	per	<b>Availability</b>		*
Parameter	As Received	1000 gal	acre-in	ibs per 1000 gal	Method	Reviewer-Date
Ammonium nitrogen (total)	0.13 %	11.0	293	11	AOAC 2001.11	mjs5 2018-11-02 14:36:04
Organic nitrogen	0.03 %	2.5	67.6	1	Calculation	Auto 2018-11-02 14:36:05
Total Kjeldahl nitrogen (TKN)	0.16 %	13.5	361	12	AOAC 2001.11	mjs5 2018-1 1-02 14:36:04
Phosphorus (as P2O5)	0.05 %	4.2	113	3	AOAC 985.01 (mod)	Auto 2018-11-02 14:36:05
Potassium (as K2O)	0.11 %	9.3	248	8	AOAC 985.01 (mod)	Auto 2018-11-02 14:36:05
Sulfur (total)	< 0.01 %	***			AOAC 985.01 (mod)	mjs5 2018-11-02 14:36:04
Calcium (total)	0.03 %	2.5	67.6	2	AOAC 985.01 (mod)	mjs5 2018-11-02 14:36:04
Magnesium (total)	< 0.01 %			***	AOAC 985.01 (mod)	mjs5 2018-11-02 14:36:04
Sodium (total)	0.03 %	2.5	67.6	2	AOAC 985.01 (mod)	mjs5 2018-11-02 14:36:04
Copper (total)	1 ppm	0.01	0.23	0.01	AOAC 985.01 (mod)	mjs5 2018-11-02 14:36:04
Iron (total)	18 ppm	0.15	4.06	0.10	AOAC 985.01 (mod)	mjs5 2018-11-02 14:36:04
Manganese (total)	3 ррт	0.03	0.68	0.02	AOAC 985.01 (mod)	mjs5 2018-11-02 14:36:04
Zinc (total)	8 ppm	0.07	1.80	0.05	AOAC 985.01 (mod)	mjs5 2018-11-02 14:38:04
Moisture	99.5 %				SM 2540 G-(1997)	mjs5 2018-11-02 14:36:04
Total solids	0.50 %	42.2			Calculation	Auto 2018-11-02 14:36:05
Total salts	0.30 %	25.4	676	A	Calculation	Auto 2018-11-02 14:36:05
рH	8.4 S.U.				EPA 9045C *	mjs5 2018-11-02 14:36:04

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 ba/acre. Less than 500 ba/acre. Less than

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our report of the sample and the sample (s) submitted the sample (s) submitted to the sample (s) submitted.



Bureau of Environmental Programs

State Fairgrounds • P.O. Box 19281 • Springfield, IL 62794-9281 • 217/785-2427 (voice TDD) • Fax 217/524-4882 Pesticide Misuse Hotline 1-800-641-3934 (voice TDD)

April 30, 2015

ALTERNATIVE DESIGN

Nathan Wiegand 2157 County Highway 5 Roanoke, IL 61561

RE: LF2030140002

Dear Applicant:

The Department is in receipt of your request for an alternative design concerning the Nathan Wiegand facility (See Attached). As required, the request did contain a certification from a Licensed Professional Engineer that the grant of the modification is at least as protective of the groundwater, surface water and the structural integrity of the livestock waste management facility as the stated requirements or that the alternative or waiver is at least as protective as the stated requirements.

Please consider this letter as your written notification that the alternative design request(s) has been granted pursuant to 35 Illinois Administrative Code 506.106. If you have any questions or if the Department may be of service to you, please contact us at 217-785-2427.

Sincerely,

ILLINOIS DEPARTMENT OF AGRICULTURE

Warren D. Goetsch, P.E.

Bureau Chief, Environmental Programs

cc: file

LF2030140002Alternativedesign



DEC 2 = 1513

**Bureau of Environmental Programs** 

State Fairgrounds • P.O. Box 19281 • Springfield, IL 62794-9281 • 217/785-2427 (voice/TDD) • Fax 217/524-4882 Pesticide Misuse Hotline 1-800-641-3934 (voice/TDD)

# LIVESTOCK WASTE PROGRAM INITIAL NOTICE OF CONSTRUCTION PLAN COMPLETENESS Non-Lagoon Livestock Waste Handling Facility

Registrant:

Nathan Wiegand 2157 County Highway 5 Roanoke, IL 61561 Facility Location:

Secor, IL Facility ID# LF2030140002

#### Date Issued: April 30, 2015

A Notice of Non-Lagoon Construction Plan Completeness is hereby granted to the above-designated registrant to construct a livestock waste handling facility as stated in the construction plan application submitted to the Department as follows:

Construction of two livestock waste handling facilities that shall have the following dimensions and capacity:

One Gestation Building measuring:

Maximum Length = 115 feet

Maximum Width = 79 feet

Maximum Depth = 10 feet

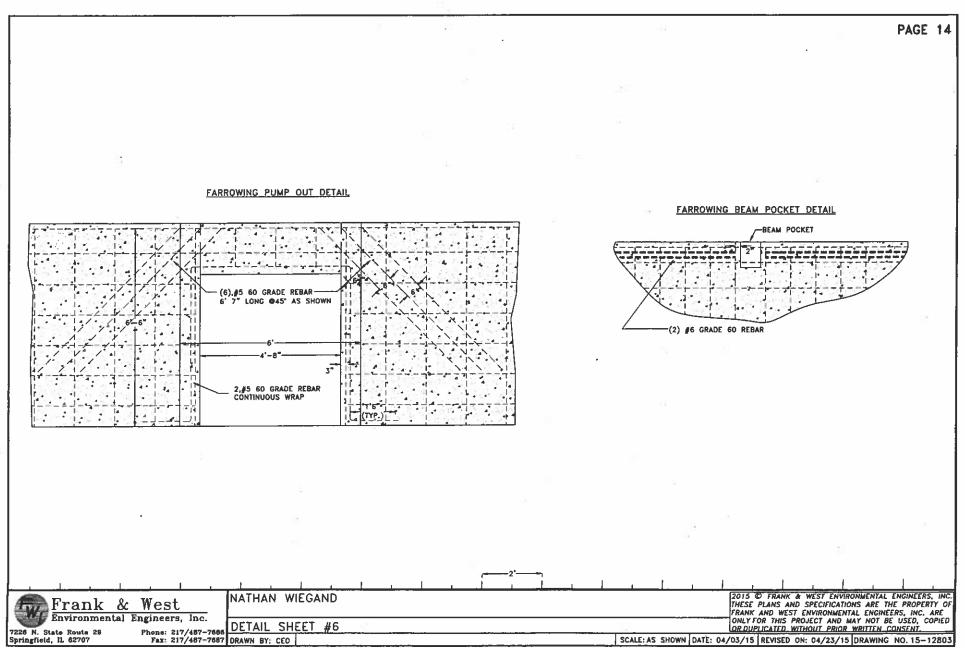
Total Design Capacity = 90,800 ft<sup>3</sup>

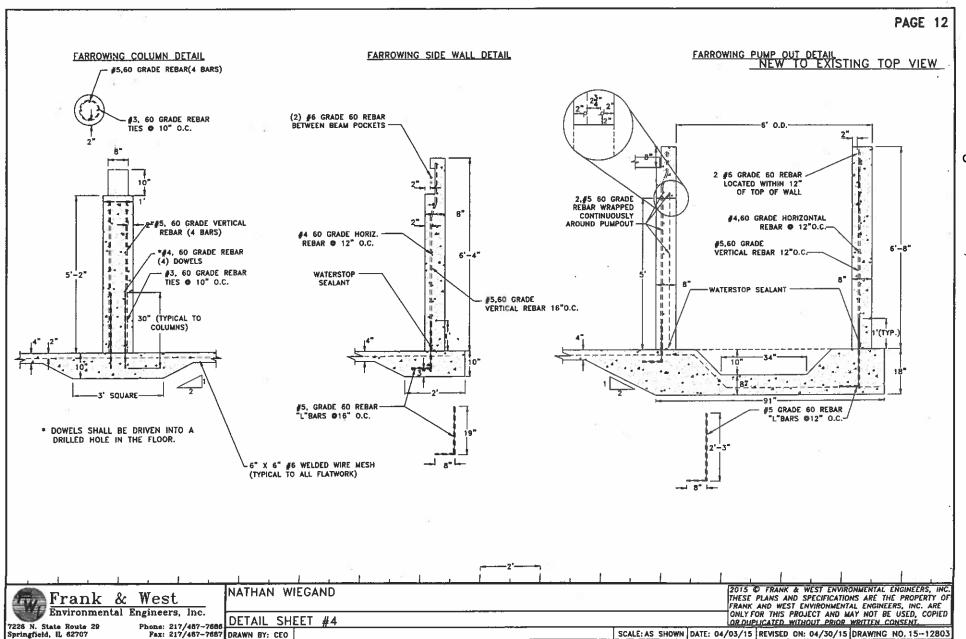
One Farrowing Building measuring:

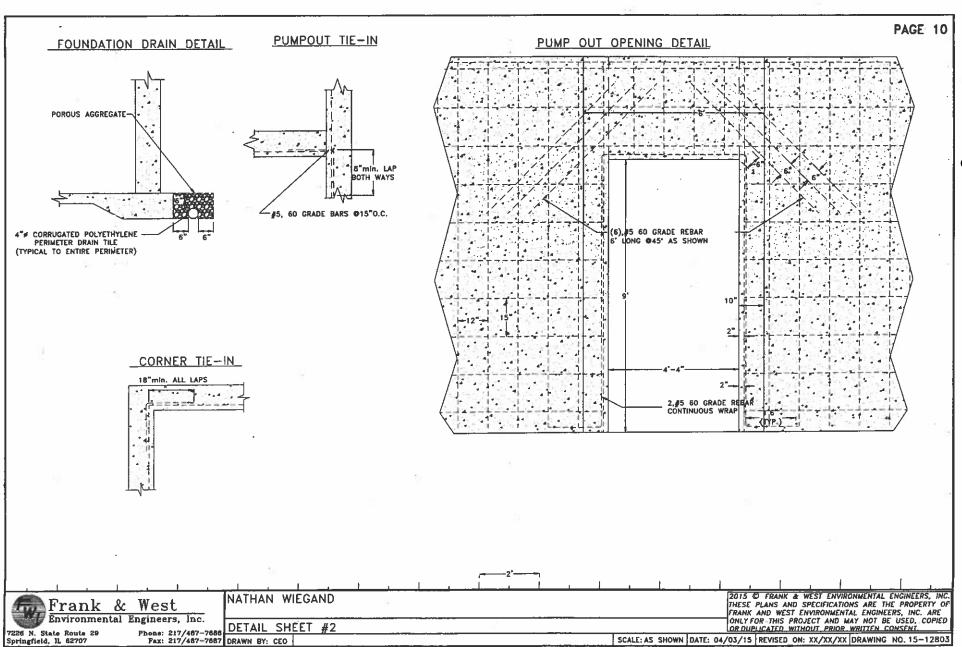
Maximum Length = 79 feet
Maximum Width = 64 feet
Maximum Depth = 6 feet
Total Design Capacity = 30,300 ft

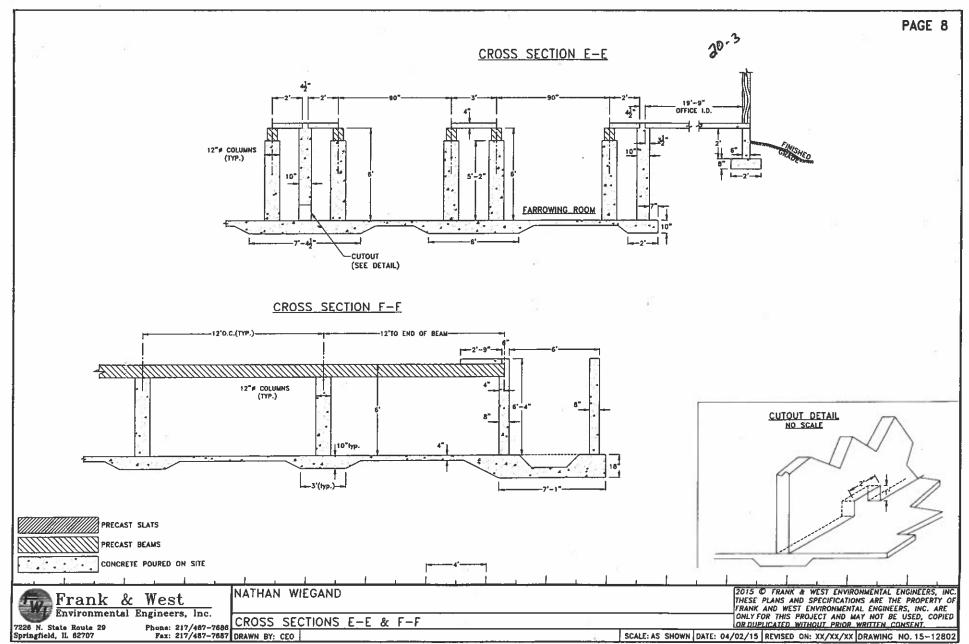
Pursuant to 35 Illinois Administrative Code 506.304 (c), this structure shall include a perimeter foundation drain, which must include a sampling port to allow for quarterly sampling pursuant to 8 Illinois Administrative Code 900.511.

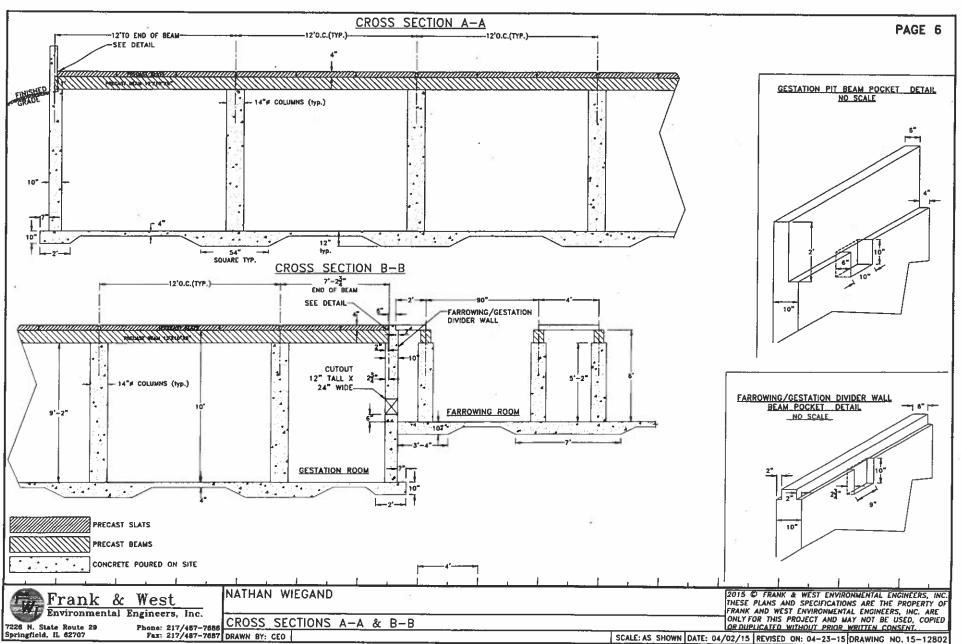
The construction plan for the aforementioned structure has been reviewed and deemed complete by the Illinois Department of Agriculture pursuant to the Livestock Management Facilities Act (Act), 510 Illinois Compiled Statutes 77/13.











#### CONSTRUCTION NOTES

PAGE 4

#### CONCRETING IN HOT WEATHER:

#### A.) HOT WEATHER DEFINITION:

- 1. FOR THE PURPOSE OF THIS SPECIFICATION, HOT WEATHER IS DEFINED AS ANY COMBINATION OF HIGH TEMPERATURE, (GENERALLY ABOVE 80 DEGREES F). HIGH CONCRETE TEMPERATURE, LOW RELATIVE HUMBITY, AND WIND VELOCITY TEMPING TO IMPAIR THE QUALITY OF FRESH OR HARDENED CONCRETE OR OTHERWISE RESULTING IN ABNORMAL PROPERTIES.
- 2. SPECIAL PROVISIONS SHALL BE MADE TO IMMEDIATELY PROTECT AND CURE THE CONCRETE DUE TO RAPID DRYING CONDITIONS. CONCRETE SURFACES SHALL NOT BE ALLOWED TO DRY AFTER PLACEMENT AND DURING THE CURING PERIOD.
- 3. IN EXTREME CONDITIONS, IT MAY BE NECESSARY TO (1) RESTRICT PLACEMENT TO LATE AFTERNOON OR EVENING, (2)
  RESURRECT THE DEPTH OF LAYERS TO ASSURE COVERAGE OF THE PREVIOUS LAYER WHILE IT WILL STILL RESOUND READLY. VIBRATION, (3) SUSPEND PLACEMENT UNTIL CONDITIONS IMPROVE.

#### B.) PREPARATIONS FOR PLACING AND CURING:

1. PLANING HOT WEATHER PLACEMENTS

UNDER HOT WEATHER CONTITIONS, SCHEDULING CONCRETE PLACEMENTS AT OTHER-THAN-NORMAL HOURS MAY BE ADVISABLE. PERTINENT CONSIDERATIONS INCLUDE EASE OF HANDLING AND PLACING, AND MINIMIZING THE RISK OF PLASTIC SHRINKAGE AND THERMAL CRACKING.

2. EXPEDITING PLACEMENT

PREPARATIONS SHOULD BE MADE TO TRANSPORT, PLACE, CONSOLIDATE, AND FINISH THE CONCRETE AT THE FASTEST POSSIBLE POSSIBLE RATE. CONCRETE DELIVERY TO THE JOB SHOULD BE SCHEDULED SO THAT IT IS PLACED PROMPTLY ON ARRIVAL. PARTICULARLY THE FIRST BATCH.

3. PLACING EQUIPMENT

FOREPMENT FOR PLACING THE CONCRETE SHOULD BE OF SHITARLE DESIGN AND HAVE AMPLE CAPACITY TO PERFORM FERLIGINALLY.

4. CONSOLIDATION EQUIPMENT

THERE SHOULD BE AMPLE VIBRATION EQUIPMENT AND WORKERS TO CONSOLIDATE THE CONCRETE IMMEDIATELY AS IT IS RECEIVED IN THE FORM, (SEE PAGE 3 ITEM H)

5. REPARATIONS FOR PROTECTING AND CURING THE CONCRETE

AMPLE WATER SHOULD BE AVAILABLE AT THE PROJECT SITE FOR MOISTENING THE SUBGRADE, AS WELL AS FOR FORGOING FORMS AND REINFORCEMENT BEFORE CONCRETE PLACEMENT, FOR MOIST CURING, USE WATER WITH A TEMPERATURE NO MORE THAN 20°F (11°C) COOLER THAN THE CONCRETE TEMPERATURE TO AVOID THERMAL SHOCK.

#### C.)PLACEMENT AND FINISHING:

1. GENERAL

EXPEDITIOUS PLACEMENT AND FINISHING MATERIALLY REDUCES HOT WEATHER DIFFICULTIES. DELAYS INCREASE SLUMP LOSS AND NYTE THE ADDITION OF WATER OFFSETS TO OFFSET THOSE LOSSES. THE CONCRETE SHOULD NOT BE PLACED FASTER THAN IT CAN BE PROPERLY CONSOLIDATED AND FINISHED.

2. PLACEMENT OF FLATWORK

WHEN CONCRETE IS DEPOSITED FOR FLATWORK ON THE GROUND, THE SUBGRADE SHOULD BE MOIST, BUT FREE OF STANDING WATER,

#### D.)CURING\_AND\_PROTECTION:

1. GENERAL

IMMEDIATELY FOLLOWING COMPLETION OF FINISHING OPERATIONS, EFFORTS SHOULD BE MADE TO PROTECT THE CONCRETE FROM LOW HUMBUTY, DRYING WINDS, AND EXTREME AMBIENT TEMPERATURE DIFFERENTIAL, WHENEVER POSSIBLE. THE CONCRETE AND SURROUNDING FORMWORK SHOULD BE KEPT IN A UNIFORM MOISTURE AND TEMPERATURE CONDITION TO ALLOW THE CONCRETE TO DEVELOP ITS MAXIMUM POTENTIAL STRENGTH AND DURABILITY. PROCEDURES FOR KEEPING EXPOSED SURFACES FROM DRYING SHOULD REGIN PROMPTLY AND CONTINUE WITHOUT INTERRUPTION. FAILURE TO DO SO CAN RESULT IN EXCESSIVE DRYING SHRINKAGE AND RELATED CRACKING. AN APPROVED CURING METHOD SHOULD BE CONTINUED FOR AT LEAST 7 DAYS. IN ADDITION, CONCRETE SURFACES SHOULD NOT BE ALLOWED TO BECOME SURFACE-DRY AT ANY POINT DURING THE TRANSITION. CONCRETE SHOULD ALSO BE PROTECTED AGAINST THERMAL SHRINKAGE CRACKING DUE TO RAPID TEMPERATURE DROPS, PARTICULARLY DURING THE FIRST 24 HOURS, THERMAL SHRINKAGE CRACKING IS ASSOCIATED WITH A COOLING RATE OF MORE THAN 5°F (3°C) PER HOUR, OR MORE THAN SOF (28°C) IN A 24 HOUR PERIOD FOR CONCRETE WITH A LEAST DIMENSION LESS THAN 12 IN. HOT WEATHER PATTERNS INCREASE THE POTENTIAL FOR THERMAL CRACKING DUE TO VAST DAY AND NIGHT TEMPERATURE DIFFERENCES.

2. MOIST CURING OF FLATWORK

A COMMON PRACTICAL METHOD OF MOIST CURING IS TO COVER THE CONCRETE WITH IMPERVIOUS SHEETING OR FABRIC MAYS KEPT CONTINUOUSLY WET WITH A SOAKER HOSE OR SIMILAR MEANS. THE TEMPERATURE OF WATER USED FOR INITIAL CURING SHOULD BE AS CLOSE AS POSSIBLE TO THAT OF THE CONCRETE TO AVOID THERMAL SHOCK.

3. MEMBRANE CURING OF FLATWORK

CONCRETE SURFACES EXPOSED TO DIRECT SUNLIGHT SHOULD USE HEAT-REFLECTING, WHITE-PIGMENTED COMPOUNDS WHERE APPLICABLE. FOR USE IN HOT WEATHER CONDITIONS, A MATERIAL SHOULD BE SELECTED THAT ENSURES EQUAL OR GREATER MOISTURE RETENTION THAN REQUIRED BY ASTM C309. APPLICATION OF AN APPROVED MOISTURE-RETENTIVE MATERIAL SHOULD MIMEDIATELY FOLLOW THE DISAPPEARANCE OF SURFACE WATER SHEEN AFTER THE FINAL FINISHING PASS. MOST CURRING COMPOUNDS SHOULD NOT SE USED ON ANY SURFACE AGAINST WHICH ADDITIONAL CONCRETE OR OTHER MATERIALS ARE TO BE BONDED.

#### CONCRETING IN COLD WEATHER:

#### A.)COLD WEATHER DEFINITION:

- 1. WHEN AM TEMPERATURE HAS FALLEN TO, OR IS EXPECTED TO FALL BELOW, 40°F (4°C) DURING THE PROTECTION PERIOD; PROTECTION PERIOD IS DEFINED AS THE TIME REQUIRED TO PREVENT CONCRETE FROM BEING AFFECTED BY EXPOSURE TO COLD WEATHER
- 2. WHEN THE MINNUM DALLY ATMOSPHERIC TEMPERATURE IS LESS THAN 40 DEGREES F, CONCRETE SHALL BE INSURATED OR HOUSED AND HEATED HANDDATELY AFTER PLACEMENT. THE TEMPERATURE OF THE CONCRETE AND AIR ADJACEMT TO THE CONCRETE SHALL BE MANTARMED AT NO LESS THAN 50 DEGREES F FOR THE DURING OF THE CURRED PERIOD.
- 3. THE CURING PERIOD MAY BE REDUCED TO 3 DAYS WHEN TYPE II CEMENT IS USED. AN ADDITIONAL 100 POUNDS OF TYPE I CEMENT AND A MAXIMUM OF 6 GALLONS OF ADDED WATER PER CUBIC YARD MAY BE USED IN LIEU OF TYPE IN CEMENT.
- 4. COMBUSTION HEATERS SHALL HAVE EXHAUST FLUE GASES VENTED OUT OF THE CONCRETE PROTECTION ENCLOSURE AND SHALL NOT BE PERMITTED TO DRY THE CONCRETE.

#### B.)OBJECTIVES PRINCIPLES, AND PLANNING:

1. OBJECTIVES

PREVENT DAMAGE TO CONCRETE DUE TO EARLY AGE FREEZING. AT 50°F (10°C), MOST WELL-PROPORTIONED CONCRETE MIXTURES REACH A COMPRESSIVE STRENGTH OF 500 pai WITHIN 48 HOURS. ENSURE THAT THE CONCRETE DEVELOPS THE REQUIRED STRENGTH FOR SAFE REMOVAL OF FORMS, SHORES AND RESHORES, AND FOR

SAFE LOADING OF THE STRUCTURE DURING AND AFTER CONSTRUCTION.

2. PRINCIPLES

CONCRETE PROTECTED FROM FREEZING UNTIL IT ATTAINS A COMPRESSIVE STRENGTH OF 500 pal WILL NOT BE DAMAGED BY EXPOSURE TO A SINGLE FREEZING CYCLE (POWERS 1962).

3. PLANNING

PLANS TO PROTECT FRESH CONCRETE FROM FREEZING AND TO MAINTAIN TEMPERATURES ABOVE THE RECOMMENDED MINIMUM VALUES SHOULD BE MADE WELL BEFORE FREEZING ARE EXPECTED TO OCCURE. EQUIPMENT AND MATERIALS SHOULD BE AT THE WORK SITE BEFORE COLD WEATHER IS LIKELY TO OCCUR, NOT AFTER CONCRETE IS PLACED AND ITS TEMPERATURE APPROACHES THE FREEZING POINT.

4. SUBGRADE CONDITION

CONCRETE SHOULD NOT BE PLACED ON FROZEN SUBGRADE. REMOVE ALL FROST BEFORE PLACING THE CONCRETE AND RECOMPACT THAWED SOIL DISTURBED BY FROST, PLACEMENT OF INSULATION OVER THE SUBGRADE, OR PROVISION OF HEAT, IS REQUIRED TO REMOVE ANY FROST IN THE SOIL AND RAISE THE SUBGRADE TEMPERATURE ABOVE 32°F. WHEN THE CONCRETE TEMPERATURE IS MORE THAN 10°F COOLER OR 5'F WARMER THAN THE SUBGRADE, DIFFERENTIAL RATES OF SETTING BETWEEN THE TOP AND BOTTOM OF THE SLAB MAY RESULT IN VARIOUS SURFACE DEFECTS INCLUDING PLASTIC SHRINKAGE CRACKING, BLISTERING, AND DELAMBATIONS.

#### C.)TEMPERATURE DROP AFTER REMOVAL OF PROTECTION:

1. AT THE END OF THE PROTECTION PERIOD, CONCRETE SHOULD BE COOLED GRADUALLY TO REDUCE CRACK-INDUCING DIFFERENTIAL STRAINS BETWEEN THE INTERIOR AND EXTERIOR OF THE STRUCTURE. THE TEMPERATURE DROP OF CONCRETE BURFACES SHOULD NOT THE RATES INDICATED IN TABLE 1.

#### D.) EQUIPMENT. MATERIALS. AND METHODS OF TEMPERATURE PROTECTION:

THE TEMPERATURE OF CONCRETE PLACED DURING COLD WEATHER SHOULD BE MAINTAINED AS CLOSE AS POSSIBLE TO THE RECOMMENDED TEMPERATURES IN LINE 1 OF TABLE 1 AND FOR THE LENGTHS OF TIME RECOMMENDED IN TABLE 2 UNTIL THE IN-PLACE STRENGTH HAS REACHED A PREVIOUSLY ESTABLISHED TARGET VALUE.

2. INSULATING MATERIALS

HEAT OF HYDRATION IS RETAINED BY USING INSULATING BLANKETS ON UNFORMED SURFACES AND BY USING INSULATING FORMS. TO BE EFFECTIVE, KEEP INSULATION IN CLOSE CONTACT WITH THE CONCRETE OR THE FORM SURFACE.

TABLE 1 RECOMMENDED CONCRETE TEMPERATURES

LINE	AIR TEMPERATURE	SECTION SIZE MINIMUM >72 In (1800 mm)
1	-	40°F(5°C)
2	ABOVE 30'F(-1'C)	45°F(7°C)
3	0"-30"F(-18"to-1"C)	50°F(10°C)
4	BELOW OF(-18°C)	55°F(13°C)
5	-	20°F(11°C)

TABLE 2 LENGTH OF PROTECTION PERIOD FOR

	CONCRETE	PLACED DURING COLD REATHER
LINE	SERVICE CONDITION	PROTECTION PERIOD AT MINIMUM TEMPERATU INDICATED IN LINE 1 OF TABLE 5.1, DAYS* (NORMAL SET CONCRETE)
1	NO LOAD, NOT EXPOSED	2
2	NO LOAD, EXPOSED	3
3	PARTIAL LOAD, EXPOSED	6
4	FULL LOAD	=

\*A DAY IS A 24 HOUR PERIOD.

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NATHAN WIEGAND

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- H. PLACEMENT AND CONSOLIDATION OF CONCRETE:
- 1. NO CONCRETE SHALL BE PLACED ON ICE, SNOW, OR FROZEN FOUNDATION MATERIAL.
- 2. THE METHOD AND MANNER OF PLACING CONCRETE SHALL BE SUCH AS TO AVOID SEGREGATION OR SEPARATION OF THE AGGREGATES OR THE DISPLACEMENT OF THE REINFORCEMENT. THE EXTERNAL SURFACE OF ALL CONCRETE SHALL BE THOROUGHLY WORKED DURING THE OPERATIONS OF PLACING IN SUCH A MANNER AS TO WORK THE MORTAR AGAINST THE FORMS TO PRODUCE A SMOOTH FINISH FREE OF HONEYCOMB AND WITH A MINIMUM OF WATER AND AIR POCKETS.
- 3. OPEN TROUGHS AND CHUTES SHALL EXTEND AS NEARLY AS PRACTICABLE TO THE POINT OF DEPOSIT. DROPPING THE CONCRETE A DISTANCE OF MORE THAN 5' (1.5m) OR DEPOSITING A LARGE QUANTITY AT ANY POINT AND RUNNING OR WORKING IT ALONG THE FORMS WILL NOT BE PERMITTED. THE CONCRETE FOR WALLS WITH AN AVERAGE THICKNESS OF 12 in. (300 m) OR LESS SHALL BE PLACED WITH TUBES SO THAT DROP IS NOT GREATER THAN 5' (1.5 m).
- 4. THE CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION, EXCEPT IN THIN SECTIONS OR INACCESSIBLE LOCATIONS WHERE CONSOLIDATION BY INTERNAL VIBRATION IS NOT PRACTICABLE.
- 5. THE CONTRACTOR SHALL PROVIDE AND USE A SUFFICIENT NUMBER OF VIBRATORS TO ENSURE THAT CONSOLIDATION CAN BE STARTED IMMEDIATELY AFTER THE CONCRETE HAS BEEN DEPOSITED IN THE FORMS.
- 6. THE VIBRATORS SHALL BE INSERTED INTO THE CONCRETE IMMEDIATELY AFTER IT IS DEPOSITED AND SHALL BE MOVED THROUGHOUT THE MASS SO AS TO THOROUGHLY WORK THE CONCRETE AROUND THE REINFORCEMENT, EMBEDDED FIXTURES, AND INTO THE CORNERS AND ANGLES OF THE FORMS. VIBRATORS SHALL NOT BE ATTACHED TO THE FORMS, REINFORCEMENT BARS, OR THE SURFACE OF THE CONCRETE.
- 7. APPLICATION OF VIBRATORS SHALL BE AT POINTS UNIFORMLY SPACED AND NOT FARTHER APART THAN TWICE THE RADIUS OVER WHICH THE VIBRATION IS VISIBLY EFFECTIVE. THE DURATION OF THE VIBRATION AT THE POINTS OF INSERTION SHALL BE SUFFICIENT TO THOROUGHLY CONSOLIDATE THE CONCRETE INTO PLACE BUT SHALL NOT BE CONTINUED SO AS TO CAUSE SEGREGATION.
- B. CONCRETE SHALL BE PLACED IN CONTINUOUS HORIZONTAL LAYERS. WHEN IT IS NECESSARY BY REASON OF AN EMERGENCY TO PLACE LESS THAN A COMPLETE HORIZONTAL LAYER IN ONE OPERATION, SUCH LAYER SHALL TERMINATE IN A VERTICAL BULKHEAD, SEPARATE BATCHES SHALL FOLLOW EACH OTHER CLOSELY AND IN NO CASE SHALL THE INTERVAL OF TIME BETWEEN THE PLACING OF SUCCESSIVE BATCHES BE GREATER THAN 20 MINUTES.
- 9. DO NOT ADD EXTRA MIX WATER TO THE MIX AT JOB SITE.
- 10. PLACE CONCRETE WITHIN 90 MINUTES OF BATCHING AT THE PLANT.

VIDRATION SPECEFICATIONS:

DIAMETER OF HEAD		AVERAGE AMPLITUDE (Inches)	CENTRIFUGAL FORCE	RADIUS OF ACTION (Inches)	RATE OF CONCRETE PLACEMENT (yds. per hr.)
1% - 2%	8,500-12,500	0.02-0.04	300-1000	20-32	12-45

- 1. THE CONCRETE CONTRACTOR SHALL PERFORM AT LEAST 1 SLUMP TEST PER DAY, 1 EVERY MINIMUM 100 CUBIC YARDS. OR AT TIMES NOT MEETING DESIGN SPECIFICATIONS ARE SUSPECTED.
- 2. SPECIFY THAT CONTRACTOR OR PROJECT ENGINEER OR HIS REPRESENTATIVE MAY REJECT MATERIALS DEEMED UNSUITABLE, NOT MEETING SPECIFICATIONS.
- 3. THE CONCRETE CONTRACTOR SHALL PERFORM AT LEAST 1 BREAK TEST PER SECTION(S) OF STRUCTURE POURED.
- 4. ALL TEST RESULTS WILL BE PROVIDED TO FWI AS SOON AS RECEIVED.

REMOVAL OF FORMS:

- 1. REMOVAL OF CONCRETE FORMS ARE SUBJECT TO THE EXERCISE OF GOOD JUDGMENT AND OBSERVATION OF THE CONCRETE WHEN STRIPING OF THE FORMS START.
- 2. AT A MINIMUM, OBSERVE THE FOLLOWING:
  - 24 HOURS SLABS ON GRADE
  - 48 HOURS WALLS AND COLUMNS
  - 144 HOURS BEAMS AND SUSPENDED SLABS
  - FOR FURTHER CONSTRUCTION TYPES NOT LISTED ABOVE, SEE ACI 347.

REPAIRS TO CONCRETE:

1. ALL REPAIRS TO CONCRETE BECAUSE OF CRACKING, HONEYCOMBING, OR ANY OTHER DEFORMITY WILL BE COMPLETED ACCORDING TO: (NRCS NATIONAL ENGINEERING HANDBOOK CONSTRUCTION SPECIFICATION 31-CONCRETE FOR MAJOR STRUCTURES DATED JANUARY 2009)

BACKFILLING:

- 1. ONCE THE CONCRETE IS PROPERLY CURED, BACK FILL CAN BE PLACED. AVOID BACK FILL CONTAINING LARGE ROCKS, HARD OR FROZEN SOIL LUMPS, OR CONSTRUCTION DEBRIS. BACK FILL SHOULD BE PLACED NO HIGHER THAN 12" FROM THE TOP OF THE WALL.
- 2. DO NOT PLACE BACKFILL UNTIL PRECAST SLATS ARE PROPERLY IN PLACE.
- 3. ADJACENT TO STRUCTURES AND PIPES WITHIN 2 FEET OF STRUCTURES OR PIPES, EARTH FILL SHALL BE PLACED IN 4-INCH LIFTS (PRIOR TO COMPACTION) IN A MANNER ADEQUATE TO PREVENT DAMAGE TO THE STRUCTURE AND TO ALLOW THE STRUCTURE OR PIPE TO GRADUALLY AND UNIFORMLY ASSUME THE BACK FILL LOADS, COMPACTION SHALL BE ACCOMPLISHED BY MEANS OF MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS OR HAND TAMPING UNLESS OTHERWISE SPECIFIED. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN 5 FEET OF ANY STRUCTURE OR PIPE. COMPACTION BY MEANS OF DROP WEIGHTS OPERATING FROM A CRANE OR HOIST OF ANY TYPE WILL NOT BE PERMITTED.
- 4. LENSES OR POCKETS OF UNSUITABLE SOIL SHALL BE REMOVED AND REPLACED WITH SPECIFIED MATERIALS AS DIRECTED BY THE TESTING AND INSPECTION AGENCY. THE EXTENT OR REMOVAL AND THE QUALITY OF REPLACEMENT MATERIALS WILL BE DETERMINED BY THE TESTING AND INSPECTION AGENCY.
- 5. THE SITE SMALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 1% SLOPE.

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#### CONSTRUCTION OF LIVESTOCK FACILITIES:

- 1. CONTACT JULIE (JOINT UTILITY LOCATING FOR EXCAVATORS) BEFORE BEGINNING ANY EXCAVATION OF SOIL FOR PROJECT (PH 811).
- B. STORAGE OF STEEL REINFORCEMENT:
- 1. SCHEDULE DELIVERY TO MINIMIZE LONG TERM STORAGE AT JOB SITE.
- 2. STORE BUNDLES ABOVE GROUND ON TIMBERS OR OTHER CRIBBING.
- SPACE SUPPORT CRIBBING CLOSE ENOUGH TOGETHER TO PREVENT EXCESSIVE SAGGING OF THE BUNDLES.
- 4. BLOCK MATERIAL AND STORE ON A SLANT TO ALLOW FOR WATER DRAINAGE AND AIR FLOW.
- 5. CONTRACTOR SHALL CONFIRM THAT ALL STEEL REINFORCEMENT DOCUMENTATION MEETS PROJECT REQUIREMENTS.

#### PREPARATION OF SUBGRADES:

- ALL ORGANIC TOPSOIL INSIDE THE CONSTRUCTION AREA AND AT SITE FILL AREAS SHALL BE REMOVED. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION PER THE GENERAL CONDITIONS.
- 2. TOPSOIL SHALL BE STRIPPED FROM THE FOUNDATION AREA AND STOCKPILED FOR USE AS TOP DRESSING FOR VEGETATION ESTABLISHMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 3. PROOF ROLL SUBGRADES BELOW FLOOR, BEFORE FILLING OR PLACING AGGREGATE COURSES, WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES.
- 4, AGGREGATE BEDDING SUBGRADE SHALL BE PLACED TO A THICKNESS OF 3 TO 6 INCHES, AS NECESSARY, TO LEVEL THE FOUNDATION EXCAVATION TO FINISHED GRADE.
- S. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES.
- WHEN SUBSURFACE DRAINS ARE ENCOUNTERED DURING ANY EXCAVATION. THEY SHALL BE REMOVED TO A MINIMUM DISTANCE OF 50' AWAY FROM EXTERIOR HORIZONTAL EXTENT OR EXTERIOR BERM TOE OF ANY WASTE STORAGE STRUCTURE AND REROUTED AROUND THE FACILITY.

#### D. FILL PLACEMENT:

- 1. FILL SHALL NOT BE PLACED UNTIL THE REQUIRED EXCAVATION AND PREPARATION OF THE UNDERLYING FOUNDATION IS COMPLETED AND APPROVED BY THE TESTING AND INSPECTION AGENCY. FILL SHALL BE PLACED BEGINNING AT THE LOWEST ELEVATION OF THE FOUNDATION, NO FILL SHALL BE PLACED ON A FROZEN SURFACE.
- 2. IF THE SURFACE OF ANY LAYER BECOMES TOO HARD AND SMOOTH FOR PROPER BOND WITH THE SUCCEEDING LAYER, IT SHALL BE SCARIFIED PARALLEL TO THE AXIS OF THE FILL TO A DEPTH NOT LESS THAN 2 INCHES BEFORE THE NEXT LAYER IS PLACED.
- 3. ALL FILL UNDER CONSTRUCTION AREAS SHALL BE PIT RUN GRAVEL, OR APPROVED ENGINEERED GRANULAR MATERIAL, PLACED IN 8" MAXIMUM LIFTS, AND COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DENSITY, GRAVEL 6. THE EPOXY MUST BE CHEMICALLY RESISTANT TO LIVESTOCK MANURE. BASE BENEATH ALL CONCRETE SLABS SHALL BE 6" OF CLEAN SAND OR 3/4" CURED STONE WITH FINES COMPACTED. FILL MAY NOT BE PLACED ON FROZEN CROUND AND NO FROZEN MATERIALS MAY BE USED AS BACK FILL.
- 4. EXCAVATION CONTRACTOR MAY HIRE SOIL TESTING FIRM AND ALLOW TESTING OF SUBGRADES AND EACH FILL LAYER. PROVIDE (1) TEST FOR EVERY 2,500 SQ. FEET OF SUBGRADE AREA AND ONE TEST FOR EVERY 100 LINEAR FEET OF WALL FOOTING. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS PREVIOUSLY COMPLETED WORK COMPLY WITH COMPACTION REQUIREMENTS.

#### EARTHEN FILL TESTING GOAL:

1. FOR ALL COMPACTED OR INSITU EARTHEN MATERIAL UTILIZED AS A LINER FOR AN EARTHEN WASTE STORAGE STRUCTURE, A PERMEABILITY OF 1X10-7 CM/SEC SHOULD BE ACHIEVED.

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- PREPARATION OF FORMS
- 1. PRIOR TO THE PLACEMENT OF CONCRETE, THE FORMS AND SUBGRADE SHALL BE FREE OF CHIPS, SAWDUST, DEBRIS, WATER. ICE. SNOW, EXTRANEOUS, OIL, MORTAR, OR OTHER HARMFUL SUBSTANCES OR COATINGS. ANY OIL IN THE REINFORCING STEEL OR OTHER SURFACES REQUIRED TO BE BONDED TO THE CONCRETE SHALL BE REMOVED. ROCK SURFACES SHALL BE CLEANED BY AIR-WATER CUTTING, WET SANDBLASTING, OR WIRE BRUSH SCRUBBING AS NECESSARY.
- 2. THE SITE SHALL BE GRADED TO THE DIMENSIONS AND ELEVATIONS AS SPECIFIED IN THE CONSTRUCTION PLANS.
- 3. ALL SURFACES SHALL BE FIRM AND DAMP PRIOR TO PLACING CONCRETE, CONCRETE SHALL NOT BE PLACED IN THE MUD. DRIED EARTH, UNCOMPACTED FILL OR FROZEN SUBGRADE OR IN STANDING WATER. THE USE OF PLASTIC SHEETING TO ISOLATE THE CONCRETE FROM UNSUITABLE FOUNDATIONS WILL NOT BE PERMITTED.
- 4. THE FORMS AND ASSOCIATED FALSE-WORK SHALL BE SUBSTANTIAL AND UNYIELDING AND SHALL BE CONSTRUCTED SO THAT THE FINISHED CONCRETE WILL CONFORM TO THE SPECIFIED DIMENSIONS AND CONTOURS. METAL CHAIRS, FORMS SHALL BE MORTAR TIGHT. FORMS WITH TORN SURFACES, WORN EDGES, DENTS OR OTHER DEFECTS WILL NOT BE USED. FORMS SHALL BE COATED WITH A FORM RELEASE AGENT BEFORE BEING SET INTO PLACE. EXCESS FORM COATING MATERIAL SHALL NOT COME IN CONTACT WITH THE STEEL REINFORCEMENT OR WITH HARDENED CONCRETE AGAINST WHICH FRESH CONCRETE IS TO BE PLACED.
- 5. REINFORCEMENT SHALL BE ACCURATELY PLACED AS SHOWN ON THE DRAWINGS AND SECURED IN POSITION IN A MANNER THAT WILL PREVENT ITS DISPLACEMENT DURING THE PLACEMENT OF CONCRETE. METAL CHAIRS, METAL HANGERS, METAL SPACERS, PLASTIC CHAIRS, OR CONCRETE CHAIRS SHALL BE USED TO SUPPORT THE REINFORCEMENT. PRECAST CONCRETE CHAIRS SHALL BE MANUFACTURED FROM CONCRETE EQUAL IN QUALITY TO THE CONCRETE BEING PLACED, PRECAST CONCRETE CHAIRS SHALL BE MOIST AT THE TIME CONCRETE IS PLACED.
- 6, REINFORCEMENT FOR FLATWORK SHALL BE BY A MINIMUM OF 1 SUPPORT EVERY THIRD BAR OR EVERY 4 FEET IN EACH DIRECTION, WHICHEVER SPACING IS SMALLER. SUPPORT CHAIRS SHALL HAVE A MINIMUM BASE AREA OF 4 SQUARE INCH IN CONTACT WITH THE SUB GRADE.
- 7. STEEL TYING AND FORM CONSTRUCTION ADJACENT TO NEW CONCRETE SHALL NOT BE STARTED UNTIL CONCRETE HAS CURED FOR AT LEAST 12 HOURS.
- 8. CONCRETE JOINTS SHALL BE OF THE TYPE SHOWN ON THE CONSTRUCTION DRAWINGS.
- 9. WATERSTOPS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS AND SECURED IN POSITION SO THAT DISPLACEMENT DOES NOT OCCUR DURING CONCRETE PLACEMENT. WATERSTOPS MAY BE SECURED TO REINFORCEMENT USING WIRE OR "HOG RING" TYPE FASTENERS.
- G. EPOXY GROUTING OF REBAR OR INSTALLATION OF OTHER APPURTENANCES:
- 1. DRILL HOLE IN CONCRETE NO MORE THAN ! THE THICKNESS OF THE SLAB OR WALL BEING PREPPED.
- 2. DRILL HOLE I" LARGER THAN REBAR TO BE INSTALLED.
- 3. CLEAN HOLE BY BLOWING COMPRESSED AIR INTO HOLE TO REMOVE ALL LOOSE PARTICLES.
- 4. HOLE MUST BE FREE OF WATER
- S. PULLOUT STRENGTH & OK W/SULPHER. THE EPOXY MUST HAVE A PULLOUT STRENGTH GREATER THAN 5,000 LBS.
- 7. USE EPOXY APPROVED BY PROJECT ENGINEER OF THE COMPANY IN THE TITLE BLOCK OF THIS DRAWING.
- 8. ANY BOLT OR ANY OTHER ANCHORING TYPE DEVICES SHALL BE TIED TO STRUCTURAL STEEL AT THE DEPTH RECOMENDED BY THE MANUFACTURER.

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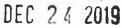
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# Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

# Application for Certification (Property Tax Treatment) Pollution Control Facility

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		File Number:					
Facility Type (check o	one): O Air Ø Water	Certification Nur	nber:		Di.	*	***
Illinois EPA. Separate a	for any application for certification applications must be completed for ated, file two applications.	of property tax to reach control fa	reatment for a polluticility claimed. Do no	tion co of mix	Please to DR	assign	and
If attachments are need	ed, record them consecutively on	an index sheet.				<del>-</del>	
You may complete this	s form online, save a copy local	ly, print, sign a	nd submit it to:				
		20 1	llinois EPA				
		A	Attention: Al Keller	r, Permit S	Section		
			Division of Water P				
*	-80		1021 North Grand . Springfield, IL 627		ast, P.O. Box	19276	
l. Applicant info	rmation:						
Company Name:	Nathan Wiegand Farm	. N					
Person Authorized to			Person to Contac				
Receive Certification	Nathan Wiegand		for Additional De	etails <u>L</u>	aura Wiegand		
Street Address:	2157 County Highway 5		Street Address:	2157 Cou	inty Highway 5		
City:		State: <u>IL</u>		Roanoke		State: IL	
Zip:		09-303-2381	Zip:	61561	Phone	: <u>309-261-275</u>	3
Email Address:	nathanwiegandfarm@gmail.c	om	Email Address:	nathanwie	egandfarm@gn	nail.com	
II. Facility Inform	ation:						
Facility Location: Qu	arter Section: NW1/4-33 Town	nship: T27N	Range: 1 i	East			
	nicipality:		Township:	Greene			
Note: A plat map local	tion is requested for facilities to	ocated outside	of municipal bour	ndaries.			
Address: 2157 Count	y Highway 5		City:Roan	oke			
State: L Zip Code	: 61561 County: W	loodford	Book Num	nber:	- 10		0
Property Index Numb	er: 11-33-100-002			č.i		'	
Note: The Property In- taxation purposes.	dex Number is the numerical re	eference used	to identify a parce	el of real p	property for ass	essment and	
Manufacturing Operations	ations Information: Conducted at the Above Locat	ion:	φ				
Swine Production							
Permit Information:			<del></del>				
WPC Construction Pe	ermit Number: 16880-15	10	Date Issued:	:May 12.	2015		
NPDES Permit Numb			Date Issued		Exp. [	)ate·	
APC Construction Pe	mit Number:		Date Issued			·a.c	
APC Operating Permi			Date Issued:	:	——————————————————————————————————————	)ate:	
Note: Submit copies of	of all relevant permits issued by	local pollution	n control agencies	. (e.g. M	SD Construction	n Permit)	

IL 532-0222 APC 151 4/2016 This Agency is authorized to request this information under 415 ILCS 5/4(b)(2012). Disclosure of this information is voluntary and no penalties will result from the failure to provide the information. However, the absence of the information could prevent your application from being processed or could result in denial of your application.

Please provide information on the manufacturing process and materials on which pollution control facility is used, including each major piece of equipment associated with the pollution control facility (or low sulfur dioxide emission coal fueled device). Description of the Process:

This pollution control facility, A livestack waste storage, was constructed May-June 2015 Frank + west Environmental Engineers designed the facility. The detailed description of concrete, rebox, Epoxy, and other materials are listed on the attacked sheets from Frank + West. The Illimis neparament of Ag reviewed and approved the plans

#### Materials Used in the Process:

Corcrete Forms, Beams, pillars + stats webar + steel reinforcing components water proof spary that resistant to Animal waste

#### Pollution Control Facility Information:

Please provide a narrative description of the pollution control facility (or low sulfur dioxide emission coal fueled device), and an explanation of why its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility, as well as a narrative description and a process flow diagram describing the pollution control facility. Include an average analysis of the influent and effluent of the control facility stating the collection efficiency, if applicable.

Describe the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

A debuiled print of the facility plans are attached, but brishy: The Gestadion/Farmung pro is 186 ft 3 meles long 79' 3" wike Gestation pit dipth is 10ft, Farrowing pit dipth in 6 feet. 4 minure purposes are on the closes side of the facility, waste from the animals flow directly through concrete + plastic stated flows into the holding pit below. Courte is pumped directly onto steller as any tablizer with the first to the courte for pumped directly onto steller as any tablizer with the first to the form the supper directly onto steller as any tablizer with the first to the form the supper directly onto steller as any tablizer with the first to the first to the form the supper directly onto steller as any tablizer with the supper to the first to the fir

Describe the Primary Purpose of the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

The primary purpose of this Pollubion Control Facility is to contain 100% of the animal waste produced in the above building, until it is applied to farmland as a source of crop fertilizer

Identify the statute or regulation (federal or state), or local ordinance, if any, requiring the installation of the subject pollution control facility (or low sulfur dioxide emission coal fueled device).

35 Illinois Administrative code Parts 501 and 502, and for 506.106 see attacked Approval Note: Catho

#### Nature of Contaminants or Pollutants:

List air contaminants or water pollution substances released as effluents to the manufacturing processes. Also list the final disposal of any contaminants removed from the manufacturing processes.

poder of erry corner or	Material Retained, Captured or Recovered				
Contaminant or Pollutant Swine Manage	Description	Disposal or Use			
	See Affected Midwest Laks	Incorporable to croppany as fertilizer			
	Anglys's				

Note: Contaminant or pollutant means that which is removed from the process by the pollution control facility.

Point(s) of Waste Water Discharge:	
Identify the location of the discharge to the receiving stream. This will typically refer to a solinclude water-carried wastes from air pollution control facilities. $NONE$	rce of water pollution but can
Plans and Specifications Attached O Yes No	
Submit Drawings, which clearly show:  (a) Point(s) of discharge to receiving stream; and NONE  (b) Sewers and process piping to and from the control facility. NONE	
Are contaminants (or residues) collected by the control facility? O Yes 🔊 No	
Note: If the collected contaminants are disposed of other than as wastes, state the disposition dollars reclaimed by the sale or reuse of the collected substances. State the cost of reclamations are disposed of other than as wastes, state the disposition dollars reclaimed by the sale or reuse of the collected substances.	n of the materials, and the value tion and related expense
Project Status:	
Date Installation Completed: August 1 2015  Provide the date the pollution control facility was first placed into service and operated. If no	t, explain.
Animals were placed in the facility Mid August 2015	
119 110 109 (30 2013	
Status of installation on date of application:	
Complete	
III. Verification and Signature:	
The following information is submitted in accordance with the Illinois Property Tax Code, as a knowledge is true and correct.	amended, and to the best of my
Any person who knowingly makes a false, fictitious, or fraudulent material statement, Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction ILCS 5/44(h))	orally or in writing, to the on is a Class 3 felony. (415
ALATINA INTERNIA	
Printed Name: Title:	
nide.	
FULBICACIONAIRO ROMAR SIGNATURA CHAUID NA Francia de Cultural de Companyo de Cultural de Companyo de Cultura de Companyo de Comp	
For incorporated entities, signature should be from an authorized corporate representative.	
Signature:	

#### Gove, Darren

From:

Nathan Wiegand <nathanwiegandfarm@gmail.com>

Sent:

Friday, January 3, 2020 7:06 PM

To:

Gove, Darren

Subject:

[External] Fwd: Form-a-drain pics and info.

#### Darren,

This is the info we received from the builder. Let me know if you still need more information or if Nathan's diagram wasn't detailed enough.

Thanks again, Laura

Sent from Laura's iPhone (so if there is a typo, the phone did it)

#### Begin forwarded message:

From: Jonathon Ruzich < jruzich.longhorn@gmail.com>

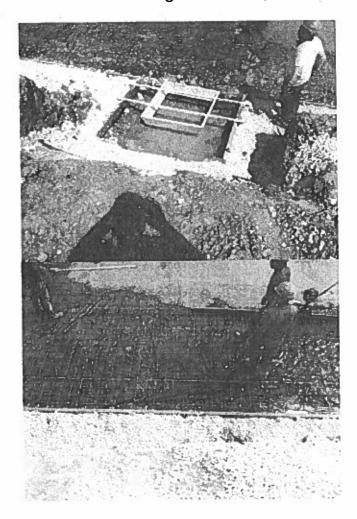
Date: January 3, 2020 at 2:03:08 PM CST To: nathanwiegandfarm@gmail.com Subject: Form-a-drain pics and info.

#### Nathan,

I am attaching a link with some information about Form-A-Drain as well as pics from your personal build. If there is anything else that you need please let me know.

https://buildblock.com/products/accessories/form-a-drain/







Thank you,

Jonathon Ruzich Operations Manager Longhorn Cattle & Swine Confinements Ph:(217)285-6379 Fax:(217)285-4028

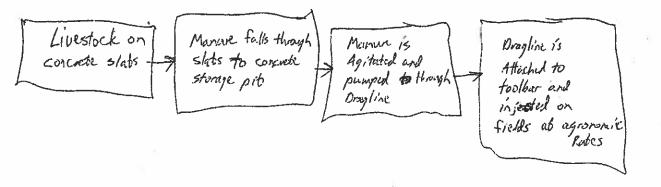
600,000 gallons are sumped 2X/year for a total not 1,200,000 Gallons. The manure is incorporated directly to formland 1 mily with a dragline system. The manure is tested for nutrients value to ensure maximum use of nutrients. This system prevents any runoff to water supplies collection efficiency is 100% No drain tiles or scrapers are used

Leaste Holding pumpout

Nathan Wiegand Pending Applicate.

Nathan Wiegard Form

Pollution Control Facility process Flow Diagram



#### Gove, Darren

From:

Nathan Wiegand <nathanwiegandfarm@gmail.com>

Sent:

Tuesday, December 24, 2019 5:40 PM

То:

Gove, Darren

Subject:

[External] Wiegand Farm PTax Application

**Attachments:** 

2019-12-21\_PTax Application.pdf; 2019\_PTax Attachment 1.pdf; 2019\_Ptax Attachment

2.pdf; 2019\_PTax Attachment 3.pdf; Wiegand plans 2015 Farrowing Barn PTAX

drawing.pdf

#### Darren,

#### Happy holidays!

I contacted you about 10 days ago in a bit of a panic about getting a PTax application filed with your office before the end of the year. The application is for a confinement hog barn (with a deep pit) built in 2015 that never received a property tax break for pollution control.

You were so helpful on the phone and walked me through the process as much as possible. Then I left for Florida the next day. SOO, I am finally getting around to emailing you a copy of our application and hopefully all the attachments you need. I will also be sending a copy of all these papers via USPS after Christmas. I just wanted the e-copy to be in your hands as soon as you returned to the office from Christmas.

Please let me know if you get this message and if I need to send anything else to you. Thanks again for all your help!
Blessings,
Laura Wiegand
309-261-2753

Sent from Mail for Windows 10

#### Gove, Darren

From:

Gove, Darren

Sent:

Friday, January 3, 2020 7:59 AM

To:

Nathan Wiegand

Subject:

RE: [External] Wiegand Farm PTax Application

Attachments:

Process flow diagram example.pdf

It has been received. I will print the application and stamp it as rec'd on 12/24/2019. Th only item that appears to be missing and needed is a process flow diagram, I have attached an example of such to aid in your submittal of one. thank you.

Darren Gove Permit Section, DWPC BOW, Illinois EPA 217 782-3362

From: Nathan Wiegand <nathanwiegandfarm@gmail.com>

Sent: Tuesday, December 24, 2019 5:40 PM
To: Gove, Darren < Darren.Gove@Illinois.gov>
Subject: [External] Wiegand Farm PTax Application

Darren,

#### Happy holidays!

I contacted you about 10 days ago in a bit of a panic about getting a PTax application filed with your office before the end of the year. The application is for a confinement hog barn (with a deep pit) built in 2015 that never received a property tax break for pollution control.

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Please let me know if you get this message and if I need to send anything else to you. Thanks again for all your help!
Blessings,
Laura Wiegand
309-261-2753

Sent from Mail for Windows 10

#### Gove, Darren

From:

Nathan Wiegand <nathanwiegandfarm@gmail.com>

Sent:

Tuesday, January 7, 2020 7:54 AM

To:

Gove, Darren

Subject:

Re: [External] Fwd: Form-a-drain pics and info.

The only pipe to daylight is the sample tile, a 10" vertical tile to take water samples around the barn.

Thanks Nathan

Sent from Nathan's iPhone

On Jan 6, 2020, at 7:48 AM, Gove, Darren < <u>Darren.Gove@illinois.gov</u>> wrote:

Received, thanks. Now that I know this I can determine the length from the plans. Also if there is additional/other pipe taking drainage to daylight please let me know the dimensions for each pit.

Darren Gove Permit Section; DWPC BOW, Illinois EPA 217 782-3362

From: Nathan Wiegand <nathanwiegandfarm@gmail.com>

Sent: Friday, January 3, 2020 7:06 PM

To: Gove, Darren < <u>Darren.Gove@Illinois.gov</u>>
Subject: [External] Fwd: Form-a-drain pics and info.

Darren,

This is the info we received from the builder. Let me know if you still need more information or if Nathan's diagram wasn't detailed enough.

Thanks again,

Laura

Sent from Laura's iPhone (so if there is a typo, the phone did it)

Begin forwarded message:

From: Jonathon Ruzich < iruzich.longhorn@gmail.com >

Date: January 3, 2020 at 2:03:08 PM CST To: nathanwiegandfarm@gmail.com
Subject: Form-a-drain pics and info.

Nathan,

I am attaching a link with some information about Form-A-Drain as well as pics from your personal build. If there is anything else that you need please let me know.

# https://buildblock.com/products/accessories/form-a-drain/ <image001.jpg> <image003.jpg> <image004.jpg> <image005.jpg> <image006.jpg> <image007.jpg>

Thank you,

Jonathon Ruzich Operations Manager Longhorn Cattle & Swine Confinements Ph:(217)285-6379 Fax:(217)285-4028

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

STATE OF ILLINOIS	)
COUNTY OF SANGAMON	)

#### **CERTIFICATE OF SERVICE**

I, the undersigned attorney at law, hereby certify that I have served on the date of February 16, 2021, the attached **NOTICE OF FILING**, **APPEARANCE**, and **RECOMMENDATION**, upon the following persons by causing to be mailed a true copy thereof in an envelope duly addressed, bearing proper first class postage, and deposited in the United States mail at Springfield, Illinois:

Nathan Wiegand Farm 2157 County Highway 5 Roanoke, IL 61561

#### Copies also provided electronically as follows:

Illinois Department of Revenue via email at <u>REV.PropTaxApp@illinois.gov</u> 101 West Jefferson P.O. Box 19033
Springfield, Illinois 62794

#### [Electronic Filing]

Illinois Pollution Control Board Don Brown, Clerk State of Illinois Center 100 West Randolph, Suite 11-500 Chicago, Illinois 60601 don.brown@illinois.gov

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: \_/s/ Gabriel H. Neibergall
Gabriel H. Neibergall
Assistant Counsel
Division of Legal Counsel
Gabriel.Neibergall@illinois.gov

DATED: February 16, 2021

1021 N. Grand Ave. East P.O. Box 19276 Springfield, IL 62794-9276 (217) 782-5544