

In The Matter Of:
LIVESTOCK MANAGEMENT FACILITIES ACT
PARKS E5

PUBLIC INFORMATIONAL MEETING
September 5, 2019

Area Wide Reporting and Video Conferencing
www.areawide.net
scheduling@areawide.net
301 W. White Street
Champaign, IL 61820

Original File 0905HRG1.txt

Min-U-Script® with Word Index

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

PUBLIC INFORMATIONAL MEETING

PARKS E5

PURSUANT TO SECTION 12
of
LIVESTOCK MANAGEMENT FACILITIES ACT
510 ILCS 77

September 5, 2019
5:30 PM

Iroquois County Administrative Center
1001 East Grant Street
Watseka, Illinois

Illinois Department of Agriculture:
John Teefey, Assistant General Counsel
Warren D. Goetsch, P.E., Deputy Director
Douglas C. Owens, Bureau of Environmental Programs
Rosario Johnstone, Technical Services and Pesticide
Laboratory

Proposed Facility Representatives:
David James
Wade Harrison
Jake Nims, Agricultural Engineer
Frank & West Environmental Engineers, Inc.

June Haeme: CSR # 084-003038
Area Wide Reporting and Video Conferencing
301 West White Street
Champaign, Illinois 61820
800.747.6789

| | | |
|----|--|--------|
| 1 | INDEX OF EXHIBITS | |
| 2 | Exhibit 1..... | 15 |
| 3 | Completed Notice of Intent to Construct application and correspondence file | |
| 4 | Exhibit 2..... | 15 |
| 5 | Department of Agriculture PowerPoint presentation | |
| 6 | Exhibit 3..... | 33 |
| 7 | Proposed facility PowerPoint presentation | |
| 8 | Exhibit 4..... | 37 |
| 9 | Email from Findlay Drilling | |
| 10 | Exhibit 5..... | 66 |
| 11 | Hog farm hearing notes | |
| 12 | Exhibit 6..... | 84 |
| 13 | Lucht family letter | |
| 14 | Exhibit 7..... | 84 |
| 15 | Chuck Gocken letter | |
| 16 | Exhibit 8..... | 84 |
| 17 | sign-up sheet for oral testimony | |
| 18 | Exhibit 9..... | 84 |
| 19 | attendance sign-in sheet | |
| 20 | INDEX OF PRESENTATION | |
| 21 | Warren Goetsch, Department of Agriculture.... | 9 |
| 22 | David James, Park E5..... | 16 |
| 23 | Jake Nims, Frank & West Environmental..... | 19 |
| 24 | INDEX OF QUESTIONS | |
| 25 | Marvin Stichnoth..... | 34, 53 |
| 26 | Nic Anderson..... | 45, 61 |
| 27 | Roger Bard..... | 45, 55 |
| 28 | Mark Tweedy..... | 49, 60 |
| 29 | Duane Stichnoth..... | 53 |
| 30 | Ben Smith..... | 54 |
| 31 | Mike Haag..... | 59 |
| 32 | INDEX OF ORAL TESTIMONY | |
| 33 | Marvin Stichnoth..... | 63 |
| 34 | Randy Poskin..... | 66 |
| 35 | Ron Bork..... | 69 |
| 36 | Jennifer Tirey..... | 71 |
| 37 | Mark Tweedy..... | 73 |
| 38 | Mike Haag..... | 74 |
| 39 | Nic Anderson..... | 77 |

PUBLIC INFORMATIONAL MEETING

3

1 (Commencing at 5:30 p.m.)

2 HEARING OFFICER TEEFEY: This evening is
3 going to be a little different than maybe some
4 public informational meetings you've been a part of
5 in the past. There's actually two separate meetings
6 tonight, one at 5:30 and one again at 8:00. So just
7 for clarity sake, the first meeting at 5:30 p.m. is
8 for what is being referred to as the Parks E5
9 livestock facility and the eight o'clock meeting
10 will be for the Parks E6 livestock facility.

11 Before we get started, please if everyone
12 would turn your cell phones to silent. Thank you.

13 On behalf of John Sullivan, Director of
14 the Illinois Department of Agriculture, we thank you
15 very much for the invitation to come to Iroquois
16 County today. My name is John Teefey. I am with
17 the Illinois Department of Agriculture and I will be
18 serving as the hearing officer for tonight's public
19 informational meeting. Also with me on behalf of
20 the department are Warren Goetsch, Deputy Director
21 of the Illinois Department of Agriculture; Doug
22 Owens, Chief of the Department's Bureau of
23 Environmental Programs; and Rosario Johnstone,
24 Manager of the Bureau's Technical Services and

PUBLIC INFORMATIONAL MEETING

4

1 Pesticide Laboratory section.

2 This meeting is being conducted pursuant
3 to Section 12 of the Livestock Management Facilities
4 Act. The informational meeting is being held at the
5 request of the Iroquois County Board and is to
6 afford members of the public an opportunity to ask
7 questions and present oral and written testimony
8 regarding the proposed construction of a new 1,800
9 animal unit swine facility by Parks Livestock.

10 My task this evening is to ensure that
11 this meeting is conducted in an orderly fashion and
12 to ensure that all comments and testimony received
13 are entered into the record. Tonight's meeting is
14 being transcribed -- is being transcribed. The
15 transcript of this meeting will be sent to the
16 Iroquois County Board as well as used by the
17 Department of Agriculture in making its
18 determination regarding the proposed construction of
19 this facility. In order to ensure that we have an
20 orderly process, I will quickly explain how this
21 meeting will proceed this evening.

22 First, following my comments, Warren
23 Goetsch will provide an overview of the provisions
24 of the Livestock Management Facilities Act as it

PUBLIC INFORMATIONAL MEETING

5

1 relates to this particular project, specifically
2 outlining the current status of this project and how
3 the process will proceed following this meeting.

4 Following Mr. Goetsch, representatives for
5 the proposed construction project will be given an
6 opportunity to describe the project and demonstrate
7 how they believe it meets the siting criteria of the
8 Livestock Management Facilities Act.

9 After their presentation, I will open the
10 meeting to questions. Anyone wishing to ask
11 questions of the facility representatives or the
12 department will be given an opportunity to do so.

13 During the question and answer session, I
14 will ask that you state your name and spell your
15 last name for the court reporter. You then may ask
16 your question. Depending on the number of people
17 who wish to testify in the oral testimony phase of
18 the meeting, which is after the question phase,
19 there may be time -- there may be a time limit
20 placed on the questioning phase of tonight's
21 meeting.

22 Following the question and answer phase, I
23 will ask for written testimony. If anyone has
24 written testimony that is not part of your oral

PUBLIC INFORMATIONAL MEETING

6

1 testimony, I will accept it and enter it into the
2 record for this proceeding. If you have written
3 material that you will be using as part of your oral
4 testimony, it can be entered into the record
5 following your oral testimony. Depending on the
6 amount of time that has elapsed at this point in the
7 meeting, we will then take a short break.

8 Following the written testimony, I will
9 ask for oral testimony from the public. Sign-in
10 sheets were placed at the door as you came in, the
11 second door over there, one sheet for attendance and
12 a second sheet for testimony. People who wish to
13 provide comments during this oral testimony phase
14 are asked to sign the oral testimony sheet.

15 People providing oral comments will be
16 sworn in. Each person will be given three minutes
17 to provide his or her comments. Legal counsel
18 speaking on behalf of multiple clients will be given
19 a total of 15 minutes for all clients and will be
20 asked to state the names of all the persons on whose
21 behalf he or she is speaking. Deferring time to
22 other speakers will not be allowed. If you signed
23 the oral testimony sheet, you may either speak or,
24 if you have changed your mind, you may pass. You

PUBLIC INFORMATIONAL MEETING

7

1 may not give your time to someone else.

2 The meeting will then conclude with
3 closing comments from the facility and from the
4 Department of Agriculture.

5 So to summarize the procedure, tonight we
6 will first have comments from the department, then
7 we'll have comments from the facility, then we'll
8 have questions directed to the department and the
9 facility. Please remember to state your name and
10 spell your last name for the court reporter. I will
11 then accept written testimony. Then oral testimony
12 will be given from the public. People will be sworn
13 in and questions may be asked following the
14 testimony and then closing comments.

15 Please keep in mind that we are not here
16 this evening to discuss or debate the merits or
17 perceived inadequacies of the existing regulations
18 or laws. We are here tonight to receive information
19 on this particular proposed livestock facility to
20 assist with determining compliance with the existing
21 regulations. This is a public informational
22 meeting, not a court proceeding. The purpose is to
23 share information and provide an opportunity for the
24 department, members of the county board and you, the

PUBLIC INFORMATIONAL MEETING

8

1 public, to learn about the proposed facility.

2 Again, we very much appreciate your
3 hospitality for inviting us here tonight to consider
4 the proposed construction of the Parks E5 swine
5 facility. Please remember to confine your comments
6 and questions to this subject matter as we continue.

7 Before we move to the department's initial
8 comments, do we have any members from the Iroquois
9 County Board here with us this evening? All right,
10 thank you very much for coming. If you wouldn't
11 mind just standing and stating your name for the
12 record, that would be great.

13 MR. ZUMWALT: My name is John Zumwalt,
14 spelled Z-U-M-W-A-L-T.

15 MR. BARD: Roger Bard, B-A-R-D.

16 MR. STICHNOTH: Marvin Stichnoth spelled
17 S-T-I-C-H-N-O-T-H.

18 MS. DUBY: Leann Duby, D-U-B-Y.

19 MS. CROW: Donna Crow, C-R-O-W.

20 MR. SHURE: John Shure, S-H-U-R-E, county
21 board chairman.

22 MR. TEEFEY: Thank you very much for
23 attending this meeting tonight. It is greatly
24 appreciated. I will now turn the proceedings over

PUBLIC INFORMATIONAL MEETING

9

1 to Warren Goetsch for remarks from the Illinois
2 Department of Agriculture.

3 MR. GOETSCH: Good evening. Can you hear
4 me okay or do I need to use the mic? My name is
5 Warren Goetsch. I currently serve as the Deputy
6 Director at the Illinois Department of Agriculture.
7 One of our duties -- one of our responsibilities at
8 the department is the administration of various
9 provisions of the Livestock Management Facilities
10 Act. On behalf of the department, let me welcome
11 you to this public informational meeting.

12 Before we hear from the proposed
13 facility's representatives, I'd like to say a few
14 words regarding the applicable provisions of the
15 Livestock Management Facilities Act and the current
16 status of this proposed project.

17 The Livestock Management Facilities Act
18 was originally passed and became law on May 21st of
19 1996. Since that time, the act has been amended
20 seven times, three of which have been substantive.
21 The act can be generally described as covering five
22 major areas, those being facility design standards,
23 waste management planning requirements, facility
24 operator training and testing, anaerobic lagoon

PUBLIC INFORMATIONAL MEETING

10

1 financial responsibility demonstration, and facility
2 setback requirements.

3 Each of these provisions impacts various
4 types of facilities in different ways depending upon
5 their size, expressed in animal units, and whether
6 the proposed facility is considered as a new
7 facility, a modified facility or the expansion of an
8 existing site.

9 The Livestock Management Facilities Act
10 provisions are quite complicated, and specific
11 facility designs and situations certainly can
12 differ. It is, however, the department's intention
13 to always fairly and equitably apply these
14 requirements to the livestock industry in this
15 state.

16 Now, regarding the current status of this
17 project, the department received a formal Notice of
18 Intent to Construct application for the proposed
19 construction of a swine facility on June 19th of
20 2019. The proposed project is to consist of the
21 construction of one 108[sic] foot 8 inch by 341 feet
22 swine finishing building with concrete slats and an
23 8 foot deep underbuilding concrete livestock waste
24 holding facility.

PUBLIC INFORMATIONAL MEETING

11

1 The project is proposed to be located
2 approximately 1.75 miles east of Stockland,
3 Illinois, in southeastern Iroquois County. The
4 application was submitted by Frank and West
5 Environmental Engineers on behalf of Parks
6 Livestock.

7 The maximum design capacity of the
8 proposed facility is 1,800 animal units or 4,500
9 head of swine greater than 55 pounds.

10 As I mentioned earlier, the department
11 received the Notice of Intent to Construct
12 application on June 19th and reviewed it for
13 compliance with the applicable provisions of the
14 act. On July 17th, the department determined that
15 the notice was complete and forwarded a copy of the
16 completed application to the Iroquois County Board.
17 Notice of that application was also published in the
18 appropriate newspapers at that time.

19 The design capacity of the proposed
20 facility requires compliance with a residential
21 setback distance of not less than 1,320 feet and a
22 populated area setback distance of not less than
23 2,640 feet.

24 On August 16th, the department received

PUBLIC INFORMATIONAL MEETING

12

1 official notice from the Iroquois County Board
2 requesting that a public informational meeting be
3 scheduled regarding the proposal. After further
4 consultation with the county board, the department
5 scheduled this meeting and caused notice of the
6 meeting to be published in the appropriate
7 newspapers.

8 An additional requirement of the Livestock
9 Management Facilities Act deals with the design and
10 construction plans of a livestock waste handling
11 facility. The department has received a formal
12 submittal of detailed engineering design plans and
13 specifications for the proposed project's
14 underbuilding livestock waste handling facility.
15 However, a detailed review of the aforementioned
16 plans has not been completed at this time. As such,
17 the department is currently unable to comment as to
18 the compliance with the statutory requirements of
19 the act.

20 We are here this evening to receive
21 testimony regarding the proposed livestock
22 management facility's compliance with the eight
23 siting criteria as defined in Section 12 Paragraph D
24 of the Livestock Management Facilities Act. In

PUBLIC INFORMATIONAL MEETING

13

1 general, information regarding the following would
2 be appropriate for this evening's meeting: manure
3 management planning, potential impact of the
4 proposed facility on the surrounding area's
5 character, whether the proposed facility is located
6 within any floodplains or other sensitive areas,
7 odor control plans, possible impact of the proposed
8 facility on existing area traffic patterns, and
9 possible impact of the proposed facility on
10 community growth, tourism and recreation or economic
11 development of the area.

12 Copies of the specific criteria were
13 available on the table with the sign-in sheets.
14 There were two: a little booklet form and also a
15 single sheet. If anyone wants a copy and didn't get
16 one, if you'd just raise your hand, we'll make sure
17 that you have one if you need it.

18 Finally, the process that will be followed
19 after this evening's meeting is as follows. The
20 county board will have up to 30 business days from
21 today's meeting to submit to the department a
22 nonbinding recommendation relative to the proposed
23 siting of the facility. Thus, a recommendation from
24 the Iroquois County Board is due at the department

PUBLIC INFORMATIONAL MEETING

14

1 on or before October 18, 2019.

2 After the close of the county's 30
3 business day comment period, the department will
4 have 15 calendar days, or until November 2nd, to
5 review all the information submitted to date,
6 including the Notice of Intent to Construct, the
7 construction plans, transcripts from tonight's
8 meeting, the county board's recommendation, and any
9 other additional information submitted by the owners
10 at the request of the department.

11 Based on that review, the department will
12 determine whether the eight siting criteria have
13 been met by the application. Once that
14 determination has been made, the department will
15 notify both the county board and the applicant of
16 the department's determination.

17 Mr. Hearing Officer, at this time I'd like
18 to submit the complete Notice of Intent to Construct
19 application and its associated correspondence file
20 for formal entry into the record as an exhibit. I'd
21 also like to submit a copy of the PowerPoint
22 presentation associated with my comments for an
23 exhibit as well.

24 HEARING OFFICER TEEFEY: Entered into the

PUBLIC INFORMATIONAL MEETING

15

1 record as Exhibit No. 1 is the completed Notice of
2 Intent to Construct including correspondence between
3 the department and the applicant, notices of the
4 public informational meeting and correspondence with
5 the Iroquois County officials. Also entered into
6 the record as Exhibit No. 2 is the department's
7 PowerPoint presentation. Thank you, Mr. Goetsch.

8 At this time, we will hear comments from
9 the facility. Before those comments begin, for
10 those who will be presenting information, please
11 state your name and spell your last name for the
12 court reporter, and then after you've done that, I
13 will swear you in together. So if you would go
14 ahead and start here and say your name for the court
15 reporter.

16 MR. HARRISON: Yes, my name is Wade
17 Harrison, H-A-R-R-I-S-O-N.

18 HEARING OFFICER TEEFEY: Are you the only
19 one to --

20 MR. JAMES: No.

21 HEARING OFFICER TEEFEY: Okay.

22 MR. JAMES: David James, J-A-M-E-S.

23 MR. NIMS: Jake Nims, N-I-M-S.

24 HEARING OFFICER TEEFEY: So would all

PUBLIC INFORMATIONAL MEETING

16

1 representatives raise your right hand?

2 (Mr. Wade Harrison, Mr. David James and
3 Mr. Jake Nims were duly sworn.)

4 HEARING OFFICER TEEFEY: Thank you. You
5 may proceed with your testimony.

6 MR. JAMES: Good evening. First of all,
7 my name is David James and I serve as the finishing
8 construction and production manager for the Parks
9 Companies. I'd like to welcome all of you all here
10 tonight for this public hearing.

11 I have a veterinary degree from Auburn
12 University and a master's degree from the University
13 of Illinois. For the past 11 years, I've worked
14 with the Parks Companies, and prior to this I worked
15 for Premium Standard Farms in a production role,
16 they are now Smithfield, and prior to that I was in
17 private practice.

18 I'd like to share a bit of information
19 about the Parks Companies. Parks family has deep
20 roots in Vermilion County. Lawrence, president of
21 the Parks Companies, learned how to buy and sell
22 livestock from his grandfather Lloyd Parks and
23 father Gary Parks as a young boy and has been doing
24 so ever since. This inspired him to create his own

PUBLIC INFORMATIONAL MEETING

17

1 swine marketing business. Lawrence and his wife
2 Deanna have five children including Lauren, Hayden,
3 Hailey, Marissa and MacKenzie. With their
4 involvement in the business, they are the fourth
5 generation to serve the livestock industry.

6 Lawrence's focus has always been on
7 integrity and doing the right thing to build his
8 family-owned business. Parks currently works with
9 more than 30 farm families who raise pigs. The
10 Parks Company currently offers several services all
11 related to the swine industry. These services
12 include, cull swine marketing, butcher hog
13 marketing, roaster pig harvest and processing,
14 transportation, trailer wash facilities, early weans
15 and feeder pig marketing, finishing buildings,
16 consulting, forward pricing and orderly
17 liquidations. All of these services are
18 accomplished with a team of over 150 dedicated
19 employees.

20 The pig barn we propose to construct is a
21 wean-to-finish barn that has the capacity of 4500
22 pigs. Weaned pigs will come into this facility and
23 weaned pigs will weigh probably roughly 12 pounds or
24 so when they come in, and they'll all come in at

PUBLIC INFORMATIONAL MEETING

18

1 once or over a two week period. Then approximately
2 six months later, those pigs will be market weight,
3 which is roughly 280 to 300 pounds and they'll go to
4 market. At that time, the facility would be
5 emptied, cleaned up, sanitized and disinfected, and
6 then a new batch of wean pigs would come in to start
7 the cycle again.

8 Effingham Equity will own the pigs.
9 Anthony Lucht will provide daily pig care and will
10 utilize the manure on his crop ground. The pigs
11 will be fed a corn/soy ration produced at Effingham
12 Equity's Horace, Illinois, feed mill. The pigs in
13 the barn will consume 100,000 to 120,000 bushels of
14 corn and 3,000 to 4,000 bushels of soybean meal
15 annually and the pigs will drink on the average
16 about one and a half gallons of water per day.

17 Each barn represents a new investment in
18 the county of 1.2 to 1.4 million dollars and will
19 provide local tax revenues potentially of 15 to
20 \$20,000 annually, of which about 9 to 10,000 will go
21 to the Milford School District.

22 The pig barn as was said will be 101 feet
23 8 inches by 341 feet and will comply with all
24 Illinois Department of Agriculture requirements as

PUBLIC INFORMATIONAL MEETING

19

1 it relates to construction and containment according
2 to engineered plans prepared by our consulting
3 engineers Frank and West and approved by the
4 Illinois Department of Agriculture. The Illinois
5 Department of Agriculture makes inspections during
6 the preconstruction and construction process.

7 And Jake Nims is here with us tonight from
8 the engineering firm Frank and West, and he will now
9 go over the eight siting criteria requirements.

10 MR. NIMS: As David said, my name is Jake
11 Nims. I'm with Frank and West Environmental
12 Engineers in Springfield. Excited to be here
13 tonight. Actually I'm from Iroquois County, grew up
14 just down the road in Onarga, so this is my first
15 opportunity to have one of these public hearings
16 here in my home county.

17 What I'm going to talk about a little bit
18 is the -- just to give you a quick farm overview and
19 a layout of the building itself and then we'll go
20 over each one of the eight criteria that Warren
21 mentioned in his presentation.

22 Here's a Google Earth showing the
23 location. I'm not sure if you can see in the back,
24 but Stockland is located here, and then the pin over

PUBLIC INFORMATIONAL MEETING

20

1 here is where the actually barn is going to be
2 located.

3 This is just an AutoCAD drawing of the
4 layout of the barn itself. As mentioned earlier,
5 dimensions are 101 feet by 8 inches by 341 feet
6 long. It will be oriented in a north-south
7 direction.

8 This is a quick list of the eight siting
9 criteria that Warren mentioned before. As I go
10 through each one of them, I'll give a little more
11 detailed explanation. So we'll just move straight
12 into Siting Criteria 1, whether registration and
13 livestock waste management plan certification
14 requirements, if required, are met by the Notice of
15 Intent to Construct. The Notice of Intent to
16 Construct was filed with the Department of Ag on
17 June 19th and it was deemed complete by them on July
18 17th.

19 According to the Livestock Management
20 Facilities Act, a farm which exceeds 1,000 animal
21 units but has less than 5,000 shall prepare,
22 maintain and implement a nutrient management plan
23 within 60 days after commencing operation. This
24 particular farm intends to prepare, maintain and

PUBLIC INFORMATIONAL MEETING

21

1 implement a comprehensive nutrient management plan.

2 The farm will submit to the Department of
3 Ag the nutrient management plan certification form
4 certifying that the nutrient management plan has
5 been prepared. The farm will keep comprehensive
6 nutrient management plan records of waste disposal
7 on file at the farm, and the comprehensive nutrient
8 management plan and associated records will be
9 available for Department of Ag inspections.

10 The goal of the comprehensive nutrient
11 management plan, which I'll just say CNMP for here
12 on out, will be to utilize the manure at approved
13 agronomic loading rates that meet the nutrient needs
14 of locally grown crops in an environmentally sound
15 fashion.

16 This goal will be accomplished by
17 developing a CNMP which includes the following:
18 total annual manure volume calculations,
19 historically proven yields in agricultural -- in
20 application areas, manure analysis to provide the
21 nutrient content of the manure, agronomic loading
22 rates of manure, land application provisions for
23 setbacks and incorporation standards, and
24 documentation of all phases of the plan.

PUBLIC INFORMATIONAL MEETING

22

1 Moving on to criteria, Siting Criteria 2,
2 whether the design, location or proposed operation
3 will protect the environment by being consistent
4 with the Livestock Management Facilities Act.

5 Part 1 of this criteria is the design of
6 the concrete structure itself. The proposed manure
7 pit will be designed according to MidWest Plan
8 Service's concrete manure storage handbook guidance.
9 MidWest Plan Service is a university-based
10 publishing cooperative dedicated to publishing and
11 disseminating research-based and peer-reviewed
12 publications. Within that document, there are
13 requirements for concrete specifications,
14 reinforcement requirements and waterstop
15 requirements. And again, the design of this
16 particular farm will consist of plans for one
17 finishing barn.

18 This next slide is just a picture of a
19 typical finishing barn layout. The dimensions
20 aren't exactly the same as what's proposed on this
21 site, but the general look is the same from the
22 outside.

23 This shows a typical pen layout within the
24 barn itself.

PUBLIC INFORMATIONAL MEETING

23

1 And this is a graphic of a cross-section
2 of the pit itself. The super structure of the
3 building itself would -- doesn't look unlike a
4 typical house. The animals are standing on a
5 slatted floor that is 8 foot deep, and then the
6 manure storage is located in the pit beneath the
7 slats.

8 Part 2 of Siting Criteria 2 is the
9 location itself. The location and setback distances
10 have been met for both an occupied residence and a
11 populated area. As mentioned earlier, the location
12 was deemed complete by the Department of Ag on July
13 17th.

14 Part 3 of Siting Criteria 2 is the
15 proposed operation. The manager of the farm will be
16 a certified livestock manager. This is a program
17 developed by the Department of Ag to educate
18 livestock managers on manure management handling and
19 systems. Managers of farms over 1,000 animal units
20 are required to attend a training course and pass an
21 exam. The Livestock Waste Management Plan will
22 detail the operation at the farm so that all manure
23 applications will be based on site specific data.

24 Siting Criteria 3, location compatibility.

PUBLIC INFORMATIONAL MEETING

24

1 Whether the location minimizes any incompatibility
2 with the surrounding area's character by being zoned
3 for agriculture, where the county has zoning, or
4 where the county is not zoned, the setback
5 requirements established by the LMFA are complied
6 with.

7 This map shows the entire State of
8 Illinois and showing counties that are either zoned
9 agriculture or do not have zoning. The greenish
10 counties are counties that have adopted ag zoning
11 for agriculture and the reddish or purplish counties
12 are not zoned. As you can see from the map located
13 down in the southeast corner of Iroquois County, we
14 are in a county that has -- the location is zoned
15 for agriculture itself.

16 Setbacks. 4,500 animals over 55 pounds
17 equate to 1,800 animal units. This requires an
18 occupied residence setback of 1,320 feet or a
19 quarter mile, and a populated area setback of 2,640
20 feet or a half mile. And again, the setbacks were
21 deemed complete on July 17th.

22 Criteria 4, whether the farm is located
23 within a 100-year floodplain or an otherwise
24 environmentally sensitive area, and whether

PUBLIC INFORMATIONAL MEETING

25

1 construction standards set forth in the Notice of
2 Intent are consistent with the goal of protecting
3 the safety of the area.

4 This is a map obtained from the online
5 FEMA Flood Map Service Center showing the location
6 of the arrow -- location of the building would be
7 right in here [indicating]. The 100-year floodplain
8 does not show up in this area at all. If you would,
9 there's a lightish blue hatching, but as you can
10 see, there's no floodplain issues in the immediate
11 vicinity of the proposed location.

12 Part 4 -- or the next part of Siting
13 Criteria 4 is a karst area. This is defined as an
14 area with a land surface containing sinkholes, large
15 springs, disrupted land drainage and underground
16 systems associated with karstified carbonate bedrock
17 and caves or a land surface without these features
18 but containing a karstified carbonate bedrock unit
19 generally overlain by less than 60 feet of
20 unconsolidated materials.

21 The left side of the map shows the State
22 of Illinois. You can see Iroquois County is not
23 known to have any karst areas in this particular
24 area. The right side of the map is just a zoomed-in

PUBLIC INFORMATIONAL MEETING

26

1 area showing Iroquois County itself. Obviously
2 there's no hatched areas in the vicinity.

3 Aquifer material is the next part of this
4 criteria and that is defined as sandstone that is 5
5 feet or more in thickness or fractured carbonate
6 that is 10 feet or more in thickness, or sand,
7 gravel, or sand and gravel, such that there is at
8 least 2 feet or more present within any 5 foot
9 section of a soil boring.

10 Site investigation was conducted on July
11 23rd. Actually I did the site investigation myself,
12 pushed the soil boring to 11 foot below the current
13 surface. Typically an 8 foot pit would be put 5 to
14 6 feet in the ground, and with the requirements
15 having to go 5 foot below that, that's why I did an
16 11 foot boring. No aquifer material was found
17 within that boring.

18 Criteria 5, whether the owner or operator
19 has submitted plans for operation that minimize the
20 likelihood of any environmental damage to the
21 surrounding area from spills, runoff and leaching.

22 For spills, the proposed pit has proper
23 sizing. It has adequate storage capacity. The LMFA
24 requires a liquid storage tank like this to have 150

PUBLIC INFORMATIONAL MEETING

27

1 days of storage. In actuality, this particular pit
2 will have in excess of 365 days. And the pit itself
3 is designed as a closed system, so there's no
4 uncontrolled release of livestock manure.

5 Runoff. The final grade of the proposed
6 building will be so that any fresh water will be
7 diverted away from the pit and not into the pit,
8 therefore not decreasing any storage capacity of the
9 barn itself and not introducing any fresh water into
10 the system.

11 Leaching. The farm is designed so as to
12 prevent a release of livestock manure. This is
13 accomplished with solid concrete construction
14 reinforced with grade 60 rebar. Waterstop will be
15 placed in all construction and stoppage joints. And
16 all surfaces in contact with the livestock manure,
17 in this case concrete, will meet the required
18 permeability standards.

19 Siting Criteria 6, whether odor control
20 plans are reasonable and incorporate reasonable or
21 innovative odor reduction technologies given the
22 current state of such technologies.

23 The proposed farm will implement a
24 comprehensive odor control plan. This consists of

PUBLIC INFORMATIONAL MEETING

28

1 controlled land application of manure, routine
2 maintenance of the barn, feed management, and
3 location.

4 The controlled application of manure by
5 injection based upon nitrogen and phosphorus loading
6 from actual on-site data. The Parks 5E farm intends
7 to utilize injection as the application method for
8 manure. This minimizes the contact with air. It is
9 widely accepted as the best available technology for
10 manure application.

11 All livestock manure will be applied by a
12 custom applicator, and all application equipment
13 will contain the following safety controls. The
14 equipment will be visually monitored continuously,
15 there will be emergency shutoffs in the cab, and
16 there will be communication between personnel
17 available at all times.

18 This is an example of an injection with
19 manure tanker. The tractor would pull the manure
20 tank through the fields. The discs pull behind
21 similar to an anhydrous applicator that we see
22 commonly throughout this area. The manure is
23 injected into the ground at the root level, and then
24 the discs behind close up the furrow minimizing the

PUBLIC INFORMATIONAL MEETING

29

1 contact with air.

2 That's a close-up, little farther --
3 closer-up view of the back end of that tanker.

4 And then this is an example of an
5 injection with drag line system. The furrow -- the
6 back end of the machine is similar, but rather than
7 having one tank that you're pouring through the
8 field, there's an umbilical cord that stretches from
9 the tank and pumps directly into the application
10 machine.

11 The odor control plan continued. The
12 Parks Livestock E5 farm has at least 1,080 acres
13 locally available -- locally per year available for
14 livestock manure applications. Utilizing local
15 yields combined with area soil types, it is
16 anticipated that the farm would utilize
17 approximately 450 to 500 acres of a corn/corn
18 rotation.

19 The farm will utilize regular maintenance
20 to minimize dust originating from the facility.
21 Regular maintenance will include routine visual
22 walk-throughs of the barns to ensure there's no
23 manure buildup above the slatted floor and walkways,
24 and the regular cleaning of fans to prevent the

PUBLIC INFORMATIONAL MEETING

30

1 accumulation of dust.

2 The farm will be thoroughly pressure
3 washed and sanitized between each production cycle.
4 This will minimize the amount of odor-causing
5 particles that are able to leave the facility
6 through the ventilation fans. The farm will ensure
7 that the building's fans operate efficiently, thus
8 minimizing dust buildup. And regular maintenance is
9 know to reduce odor concentrations and odor
10 intensity.

11 The farm has incorporated an animal diet
12 formulated to allow the most efficient utilization
13 of proteins and nutrients in the feed. This dietary
14 practice aids in the reduction of overall odors from
15 the farm by reducing excess nutrients excreted by
16 the animals.

17 The farm complies with and exceeds
18 facility setback distances as established in the
19 Livestock Management Facilities Act. The
20 residential setback is exceeded by 800 feet and the
21 populated area setback is exceeded by 6,620 feet.

22 Again, just the three phases of the
23 comprehensive odor control plan: farm location and
24 maintenance, proper nutrition, and injection of the

PUBLIC INFORMATIONAL MEETING

31

1 manure.

2 The farm has diligently planned an overall
3 odor control strategy by incorporating numerous odor
4 control techniques and technologies. The farm will
5 also continue to look for and incorporate other
6 technologies as they become available. This
7 strategic plan incorporates reasonable and
8 innovative technologies that will allow the facility
9 to operate with minimal odor impact to the
10 surrounding area.

11 Criteria 7, traffic patterns, whether
12 traffic patterns minimize the effect on existing
13 traffic flows.

14 For the proposed E5 site, the primary
15 transportation route map would be leaving from the
16 farm, traveling west on County Road 880 North and
17 then south on 2870 East Road.

18 On County Road 880 North between the farm
19 and Stockland there's a weekly average of 1,225
20 vehicles. On 2870 East Road south of Stockland
21 there's a weekly average of 1,050 vehicles. The
22 farm itself will average three total trucks weekly.
23 This includes feed transportation and animal
24 transportation trucks. Parks Livestock traffic will

PUBLIC INFORMATIONAL MEETING

32

1 consist of less than .25 percent of the average
2 weekly vehicle traffic on County Road 880 North
3 between the farm and Stockland and less than .29
4 percent of the average weekly vehicle traffic on
5 2870 East south of Stockland. And those figures
6 were obtained from the Illinois Department of
7 Transportation.

8 Now, it is possible during months that
9 roads could be posted that the primary route would
10 not be an option. In that case, we have developed a
11 secondary transportation route. Again, from the
12 farm we would travel east on County Road 880 North
13 to U.S. Highway 41. On County Road 880 North
14 between the farm and the Indiana state line there's
15 a weekly average of 1,225 vehicles. Again, the farm
16 will average three total trucks weekly and this
17 equates to less than 0.25 percent of the average
18 weekly traffic on that particular road.

19 Parks Livestock farm traffic will comply
20 with the same seasonal posted road weight limits as
21 all other traffic in the area.

22 And Criteria 8, whether construction of a
23 new farm is consistent with existing community
24 growth, tourism, recreation or economic development

PUBLIC INFORMATIONAL MEETING

33

1 or with specific projects involving community
2 growth, tourism, recreation or economic development
3 that have been identified by government action for
4 development or operation within one year through
5 compliance with applicable zoning and setback
6 requirements for populated areas as established by
7 the Livestock Management Facilities Act.

8 The farm is consistent with existing and
9 planned community development of this rural
10 agricultural area by demonstrating compliance with
11 zoning and setback requirements. And the farm will
12 meet all requirements of the Livestock Management
13 Facilities Act.

14 With that, I appreciate the opportunity,
15 and we look forward to your questions.

16 HEARING OFFICER TEEFEY: Did you have
17 additional testimony? Thank you very much for those
18 remarks. At this time, we will enter into the
19 record Exhibit No. 3 which is the presentation from
20 the facility.

21 We will now open the meeting for any
22 questions that you may have of the facility or of
23 the department. If you have a question you would
24 like to ask, please raise your hand, and when called

PUBLIC INFORMATIONAL MEETING

34

1 upon, please state your name and spell your last
2 name. Please indicate to whom you are directing
3 your question. I will remind you that this portion
4 of the meeting will be limited to questions only.
5 After this question and answer session, there will
6 be another session dedicated to public testimony
7 where you can provide your oral comments. So please
8 limit this session to questions only. Also, please
9 keep in mind that questions need to pertain to this
10 particular facility.

11 At this time, are there any questions?

12 Yes, sir.

13 MR. STICHNOTH: Marvin Stichnoth,
14 S-T-I-C-H-N-O-T-H. I have a few questions. Mr.
15 Goetsch, first off, out of curiosity, how many of
16 these types of hog operation permits are denied in
17 the state?

18 MR. GOETSCH: I guess I would answer that
19 question a little differently than you asked it, and
20 the reason being, the department really doesn't
21 directly deny an application, we just don't approve
22 an application, that then the applicant, then, has
23 the opportunity to respond with whatever they need
24 to respond to possibly come into compliance.

PUBLIC INFORMATIONAL MEETING

35

1 So the way I would answer that, this would
2 have been as of July of this year. Since the
3 beginning of the project or the beginning of the
4 act, we've received approximately -- well, 2,432
5 projects and we have ultimately approved 79.4
6 percent of those, so just a tad over 20 percent were
7 never approved. That, I think, maybe fits your
8 definition of denial.

9 MR. STICHNOTH: Okay, thank you. Mr.
10 Nims, maybe you can answer this. What happens if a
11 well goes dry after never having done so in decades?
12 What are the repercussions? Who's responsible?

13 MR. NIMS: Well, from a legal standpoint,
14 I guess I wouldn't know who would be responsible.
15 What I will say is I've yet to see that happen in 17
16 years of permitting livestock buildings throughout
17 the state. We've yet -- I've not seen a well go
18 dry. Actually you -- we actually have a statement
19 from the driller that maybe will help alleviate some
20 concerns with that as well.

21 MR. JAMES: David James, J-A-M-E-S. We
22 contacted -- because from the last public hearing
23 there was a lot of questions about the well, so I
24 contacted Findlay Drilling who dug our wells for us

PUBLIC INFORMATIONAL MEETING

1 and they sent me this email. If it's all right,
2 I'll just read it to you. It's not very long.

3 MR. STICHNOTH: Sure.

4 HEARING OFFICER TEEFEY: That's fine.

5 MR. JAMES: Then I'll submit it. The
6 wells drilled for the future hog facility has been
7 brought up for a concern that the water table may
8 drop for close neighbors. The wells were developed
9 for one and a half hours each to ensure they will
10 maintain water flow. Each well produced 50 percent
11 more than the pumps that will be installed at the
12 facility. The vein of water we hit is a solid vein.
13 It was chosen by a geological company that studies
14 water flow across midwestern states. We see no
15 reason for the amount of water used in this facility
16 to draw down the water table in the area.

17 The system will only pull from one well at
18 a time. We have two wells per each site, so it will
19 only pull from one of those wells. It will
20 alternate between the two wells. The system will
21 only pull from one well at a time switching back and
22 forth to ensure the least amount of pressure on each
23 well, thus helping save the life of the pumps. The
24 system will pull 30 gallons per minute at the

PUBLIC INFORMATIONAL MEETING

37

1 maximum which will fulfill the demand for the
2 facility.

3 My investigation of other water usage in
4 the area would suggest that these farms should not
5 have any impact on total water use in the
6 surrounding areas. We do not believe these wells
7 used as prescribed will draw down the water table.
8 Jeff Martin, Findlay Drilling.

9 MR. STICHNOTH: Mr. Nims --

10 HEARING OFFICER TEEFEY: Real briefly, I
11 would like to just enter this email from Jeff Martin
12 from Findlay Drilling as Exhibit No. 4. Thank you.

13 MR. STICHNOTH: Mr. Nims, are you aware
14 that approximately ten years ago during a very dry
15 spell, I think I was chief of the fire department in
16 Stockland at that time, that our well stopped
17 pumping and we had to deepen it, so I think it's
18 possible, so I don't know if you were aware of that.

19 MR. NIMS: I was not.

20 MR. STICHNOTH: It was like a 400 foot
21 well. Okay. Mr. James, I suppose this is an
22 opinion, but how much smell will the surrounding
23 residents detect?

24 MR. JAMES: The amount of odor should be

PUBLIC INFORMATIONAL MEETING

38

1 minimal because of our setbacks from the distances
2 we are from the -- from the neighbors, from the
3 houses. There are times when there can be odor, but
4 it's not very often. I believe you visited with a
5 neighbor from one of our facilities that -- and I
6 think what you said is he said there are times he
7 can smell our facility but it isn't a problem.

8 MR. STICHNOTH: Okay, how do you -- how do
9 you control the odor?

10 MR. JAMES: Well, we control the odor like
11 Jake covered in his presentation. We have exhaust
12 fans for the pits that discharge on the ground.
13 Keeping the fans clean, keeping the dust down, and
14 the cleaning of the facility between groups of pigs
15 coming in. And then with the application of using
16 injection systems where we inject the manure 5 to 8
17 inches under the ground so we don't get a lot of
18 odor from that.

19 MR. STICHNOTH: Will you be using the
20 electrostatic fences?

21 MR. JAMES: We are trying the
22 electrostatic fence. You may have saw that at our
23 Parks finishing E3 facility. We are looking at
24 that. We haven't come to a determination yet. We

PUBLIC INFORMATIONAL MEETING

39

1 haven't had it up for a year. It is an
2 electrostatic fence which attracts dust particles.
3 And so we're still going -- in the looking at it,
4 but it's something that we would definitely
5 consider.

6 MR. STICHNOTH: There is a chemical that
7 you can apply in the pit that would help suppress.

8 MR. JAMES: Most of the chemicals that you
9 can apply in the pit, there's only anecdotal
10 information that they work or they don't work. We
11 can't -- we haven't come across one yet that has a
12 university back that using this pit additive had a
13 decrease in the odors, so there's not one that we're
14 currently thinking of applying.

15 MR. STICHNOTH: Okay. Mr. Harrison, you
16 are Effingham Equity?

17 MR. HARRISON: That's correct.

18 MR. STICHNOTH: Okay, thank you. How much
19 do you think the surrounding homes will devalue
20 after the operation?

21 MR. HARRISON: That's a good question.
22 I'm not an expert in real estate appraisal. Really
23 honestly, I couldn't begin to tell you with any kind
24 of science or certainty that there would be any

PUBLIC INFORMATIONAL MEETING

40

1 impact to the houses' value in the surrounding area.
2 I don't even have an opinion.

3 MR. STICHNOTH: Okay, so you think there's
4 no study been done for that even though --

5 MR. HARRISON: I'm not an expert in real
6 estate appraisal.

7 MR. STICHNOTH: It's pretty obvious.
8 Okay. I guess one thing that's up in the air, what
9 is the plan for upgrading any roads that need to be
10 upgraded, Mr. James?

11 MR. JAMES: We're only talking about E5
12 now.

13 MR. STICHNOTH: E5, okay, let's skip that
14 one then.

15 MR. JAMES: Okay.

16 MR. STICHNOTH: I'm wondering, is the E5
17 facility too close to the house that's four-tenths
18 of a mile away, even though a quarter mile is the
19 recommended or the statute? Do you have any -- any
20 facilities that have homes that close to them?

21 MR. JAMES: Is that for me?

22 MR. STICHNOTH: Yes.

23 MR. JAMES: Yes, we have facilities that
24 have homes closer than that.

PUBLIC INFORMATIONAL MEETING

41

1 MR. STICHNOTH: Okay. Another thing, Mr.
2 James, how is the runoff from the three acre site
3 controlled to prevent erosion to the surrounding
4 farmland?

5 MR. JAMES: As you saw when you saw the
6 E3, we sow grass. Part of our, you know, part of
7 our responsibilities are to sow the grass. And we
8 -- if we need to, I have some facilities in Iowa
9 where we do retention ponds. We haven't had to do
10 that on our facilities here, the rainfall hasn't
11 been such that we would control it, but we control
12 the erosion.

13 MR. STICHNOTH: So what happens, then, if
14 we get like a 3 or 4 inch rain, which is not
15 completely uncommon in this area, and it does wash
16 into the field and erode? Is there any plan?

17 MR. JAMES: Yeah, if we're getting
18 erosion, we would take care of that.

19 MR. STICHNOTH: Okay. Also, Mr. James, I
20 think Parks owns the facility?

21 MR. JAMES: Yes.

22 MR. STICHNOTH: What's the life of this
23 facility?

24 MR. JAMES: You know, we expect the life

PUBLIC INFORMATIONAL MEETING

42

1 of the facility to be 30 years or more. There's
2 25-year-old facilities right now that are still
3 being used. With the construction materials that
4 we're using, it gives a long life. 25, 30 years,
5 you're probably going to have to do some ceiling
6 repair, maybe some roof repair, maybe some of the
7 gating, but the concrete structure itself should be
8 just fine.

9 MR. STICHNOTH: When it does reach the end
10 of its life, how will it be -- two parts, how will
11 it be decommissioned and is Parks an LLC that will
12 declare bankruptcy and walk away from the facility
13 without decommissioning?

14 MR. JAMES: Go ahead.

15 MR. NIMS: You answer the second part and
16 I'll answer the first. There is a procedure through
17 the Livestock Management Facilities Act for closing
18 down a manure holding structure.

19 MR. STICHNOTH: Is there any financial
20 guarantees in place? The wind farms in the county
21 have some financial guarantees. Anything for the
22 hog farms?

23 MR. JAMES: Not that I'm aware of.

24 MR. STICHNOTH: Okay.

PUBLIC INFORMATIONAL MEETING

43

1 HEARING OFFICE TEEFEY: At this time we're
2 going to ask -- we'll come back to you, but I just
3 want to make sure that everyone has an opportunity
4 to speak.

5 MR. STICHNOTH: I only have two more
6 questions.

7 HEARING OFFICER TEEFEY: Go ahead. Two
8 more and then we'll be done and move on.

9 MR. STICHNOTH: Who owns the three acres
10 of land?

11 MR. JAMES: Parks will own that ground.

12 MR. STICHNOTH: And how much -- and this
13 is public record, but how much was paid -- will be
14 paid for the land?

15 MR. JAMES: Well, the way this is, that we
16 have done the Parks farms here, basically we're
17 getting the ground so the farmer gets the manure.

18 MR. STICHNOTH: Okay, okay, so it's sort
19 of a trade-off maybe.

20 MR. JAMES: Right.

21 MR. STICHNOTH: I'm sorry, just one more.

22 HEARING OFFICER TEEFEY: All right, one
23 more and then we need to move on, so last one,
24 thanks.

PUBLIC INFORMATIONAL MEETING

44

1 MR. STICHNOTH: I was wondering, Mr. Nims,
2 the environmental report you had lists that there
3 would be -- there are no abandoned wells within a
4 thousand feet or tile within a hundred feet.

5 MR. NIMS: Sure.

6 MR. STICHNOTH: And I know for sure that
7 there are some old wells that have been abandoned.
8 Why do you put that on the report when obviously you
9 don't know?

10 MR. NIMS: Well, to the best of our
11 knowledge, we don't know.

12 MR. STICHNOTH: Okay.

13 MR. NIMS: I mean there are websites that
14 you can go to that list registered wells in the
15 state. There's obviously nothing listed. When I
16 did the site investigation, I drive around and check
17 out every homestead nearby, even what appeared to be
18 an old homestead. I know exactly what area you're
19 probably talking about. Short of trespassing, you
20 know, I can't go around -- can I see a well from the
21 road? No. Is there any well database that shows a
22 well there? No. Did anybody involved with this
23 project know of any specific wells that were there?
24 No, we did not.

PUBLIC INFORMATIONAL MEETING

45

1 MR. STICHNOTH: Okay.

2 MR. NIMS: So to the best of our ability,
3 there wasn't.

4 MR. STICHNOTH: As far as you know.

5 MR. NIMS: Correct, correct.

6 MR. STICHNOTH: Okay, I'm finished.

7 HEARING OFFICER TEEFEY: Okay, thank you.
8 Any other questions?

9 MR. ANDERSON: Nic Anderson,
10 A-N-D-E-R-S-O-N. David James, on the well drilling,
11 you filled out a county application for that permit.
12 Does that permit from the county site investigate
13 other wells of -- do you know what they do on the
14 county permit?

15 MR. JAMES: I don't know what they do, but
16 I know that we've got permits for all the wells.

17 MR. ANDERSON: So you met the county
18 qualifications.

19 MR. JAMES: Yes.

20 MR. ANDERSON: Thanks.

21 HEARING OFFICER TEEFEY: Other questions
22 for the facility or the department? Yes, sir.

23 MR. BARD: Yes, Roger Bard. I don't know
24 which of you would answer this, but what is the

PUBLIC INFORMATIONAL MEETING

46

1 gross weight of the trucks that is hauling the feed
2 from Effingham up to the farms?

3 MR. HARRISON: Good question, Roger. I
4 can't quote you the number, okay? We have spoken to
5 your county road commissioner, county engineer
6 that's in charge of the roads, and we've
7 communicated with him on the weights of the feed,
8 and he has -- he has designed this route in and out
9 of the site for us for the primary route eight
10 months of the year as well as the secondary route
11 for the additional four months out of the year. I
12 mean we as a -- as a cooperative, all right, we've
13 got trucks running all over the state transporting
14 feed, fertilizer, chemical.

15 I'm sorry I can't quote you the exact
16 number, but I would tell you that we're in
17 compliance across 22 different facilities around the
18 state on everything we do. We're obviously abiding
19 by the rules that are in place within the State of
20 Illinois for transporting different goods around the
21 state. So I want to give you some confidence that
22 as of our hundred years in business, that we're not
23 out, you know, willy-nilly running around, you know,
24 exceeding the laws that are in place when we're

PUBLIC INFORMATIONAL MEETING

47

1 hauling products around.

2 MR. BARD: Right, because the 700 road has
3 a 20 ton posted weight limit on a bridge there.

4 MR. HARRISON: Right.

5 MR. BARD: And then it's posted in the
6 springtime so that you wouldn't even be able to use
7 it.

8 MR. HARRISON: Yeah. Again, your county
9 engineer has designed the route for us to be legal
10 year-round. So when those roads are posted, that
11 back -- that backup or the secondary route that Jake
12 put up on the slide is how we're going to leave the
13 area and stay legal when the roads get posted.
14 We're not going to be on that road that you
15 mentioned.

16 MR. BARD: And how much do those tankers
17 or whatever you call them weigh when they are loaded
18 with manure to go out to the fields?

19 MR. JAMES: I can't -- it's going to
20 depend on the tanker. We're planning on using drag
21 lines for these barns, so there may not be tankers
22 depending on what's available, but they won't be
23 getting on the road. They'll just be on -- if
24 they're running on the roads, they're going to be

PUBLIC INFORMATIONAL MEETING

48

1 legal, but they're primarily just going to be
2 running in the fields.

3 MR. BARD: Okay, what is the mortality
4 rate of these hogs in the barn?

5 MR. JAMES: Usually -- you know, the
6 number varies, but usually it's 2 and a half to 3
7 percent.

8 MR. BARD: And are those taken care of
9 immediately as far as with that many, and is the
10 facility walked two or three times a day to make
11 sure that nothing is dead and laying around in
12 there?

13 MR. JAMES: Yeah, the facilities are seen
14 to at least once a day if not twice. The dead
15 animals are put into containers and then we have a
16 rendering service that will pick up those dead and
17 they'll come once to twice a week.

18 MR. BARD: Okay, and you said you drilled
19 wells, so obviously you are going to be building on
20 these sites.

21 MR. JAMES: That is our plan.

22 MR. BARD: Okay, that's your plan then.
23 Okay.

24 HEARING OFFICER TEEFEY: Any other

PUBLIC INFORMATIONAL MEETING

49

1 questions? Yes, sir.

2 MR. TWEEDY: Mark Tweedy, I live at --

3 HEARING OFFICER TEEFEY: Could you spell
4 your last name?

5 MR. TWEEDY: T-W-E-E-D-Y. Mr. Nims, Jake,
6 right?

7 MR. NIMS: Yeah.

8 MR. TWEEDY: I'm concerned about the water
9 usage total on this aquifer, that we're not on the
10 Mahomet aquifer, we're on the one that goes up
11 through Indiana and northwestern Indiana. Locally
12 there's at least nine center pivots. One is a half
13 mile center pivot 3 miles from my house and maybe 4
14 from -- 3 and a half from these facilities, and then
15 there's at least a 6500 cow dairy farm, milking
16 farm, there right now. I don't know how much milk
17 cows use daily of water and obviously it's a lot
18 more than a pig, but on average.

19 And then these 13,500 hogs with
20 approximately 7 million gallons annually of water
21 usage, somebody is going to have to explain to me
22 how -- there's got to be a limit to this, somehow
23 some way, and the residents of Stockland and the
24 neighbors are concerned about the cumulative water

PUBLIC INFORMATIONAL MEETING

50

1 usage of that. When -- you know, when's enough
2 enough.

3 And somebody's going to have to explain to
4 me why, with that amount of water usage in a
5 drought, if there was a drought like we had this
6 year, somebody has got to explain to me why that
7 won't dry me up because 90 percent of us out there
8 have wells less than 30 feet, 20, 18 feet in the
9 Stockland area, and that's just -- that's the norm.
10 And so I need a -- I need an answer to that
11 question.

12 MR. NIMS: Sure. One, I'm not a
13 hydrologist, so I'll give you my best explanation,
14 mostly going off of deferring to the drill, the well
15 driller's recommendation. Obviously we need water
16 for the pigs or they won't build the barns. That's
17 why they did -- they drilled the two test wells at
18 each site, just to see if there was adequate water
19 available.

20 According to the driller, there's more
21 than enough water available for the amount that this
22 building -- if you want to say the three buildings,
23 whatever, you know, that it won't impact the current
24 water situation. I will say in general what these

PUBLIC INFORMATIONAL MEETING

51

1 finishing barns use for water compared to a typical
2 center pivot is fractions of that, so --

3 MR. HARRISON: And I --

4 MR. NIMS: Having them in the area, I just
5 don't think that this is going to add a significant
6 tax on the water supply like you think it might.

7 MR. HARRISON: Yeah, Mark, I would just
8 add that, you know, based upon the --

9 HEARING OFFICER TEEFEY: State your name.

10 MR. HARRISON: Sorry, Wade Harrison. I
11 would just add that the wells that were drilled on
12 the site produce in excess of 12 times the expected
13 daily consumption of water. So those wells were
14 very strategically sought out and drilled in
15 locations to make sure that we had this windfall of
16 water available, okay?

17 I don't know about your house, I don't
18 know about Stockland, I don't know what kind of
19 methodology was used to go find water. You know,
20 maybe it's not as good a water source. And I can
21 appreciate why you're concerned about, you know,
22 these facilities, but they spared no expense making
23 sure they had the water available and excess
24 availability of what the pigs would consume on a

PUBLIC INFORMATIONAL MEETING

52

1 daily basis. Again, it's over 12 times the water
2 produced for what the expected average consumption
3 is out of the facility.

4 MR. TWEEDY: I assume they didn't let that
5 run for a week, you know, they didn't sit there and
6 pump 30 gallons a minute for a week. They looked
7 for, they looked for 30 -- you know, the minimum or
8 maximum for their numbers, they needed that number.
9 And so, yeah, at that time they pumped 30 gallon a
10 minute but for a half-hour or an hour, I don't know
11 what their guidelines were, but --

12 So I am aware that a little town,
13 Templeton, Indiana, that the farmer drilled a center
14 pivot reasonably close to town and it dried
15 everybody's -- small town but like Stockland, it
16 dried everybody's well up and they had to shut the
17 well down. And I think Stevens come in and drilled
18 everybody a new well, because that was just -- that
19 was one center pivot, but, you know, that's where
20 the cumulative water usage on this aquifer.

21 HEARING OFFICER TEEFEY: I hate to cut you
22 off, but do you have a follow-up question because
23 there will be opportunity for testimony at the end,
24 but if you have a follow-up question --

PUBLIC INFORMATIONAL MEETING

53

1 MR. TWEEDY: No.

2 HEARING OFFICER TEEFEY: Okay. Are there
3 any other questions at this time. Yes, sir.

4 MR. DUANE STICHNOTH: Duane Stichnoth,
5 S-T-I-C-H-N-O-T-H. You tell us that the average
6 consumption is so much. Well, I'd like to know what
7 the consumption is when they're 180 to 250 pounds.
8 That's going to be a lot more than average.

9 MR. HARRISON: Yeah, so just what we
10 figure, an average weight pig, somewhere around 150
11 pounds, will consume a gallon and a half a day. The
12 most I've seen water consumption for a three to four
13 week period of time, it maxes out about 3 gallons
14 per pig a day, so essentially double the
15 consumption. But again, we're still close to ten
16 times the amount of water produced and available for
17 the pigs relative to what's consumed.

18 HEARING OFFICER TEEFEY: Any other
19 questions?

20 MR. STICHNOTH: If there are none, I have
21 a follow-up.

22 HEARING OFFICER TEEFEY: Okay.

23 MR. STICHNOTH: Marvin Stichnoth. You
24 have it. So, Mr. Harrison, Mr. James, you're really

PUBLIC INFORMATIONAL MEETING

54

1 saying there's really no chance of the surrounding
2 wells going dry; is that correct? What you assume,
3 there's no risk?

4 MR. JAMES: What our well -- Jack Martin
5 with Findlay Drilling, what he said was that my
6 investigation of other water usage in the area would
7 suggest that these farms should not have an impact
8 on total water use in the surrounding area.

9 MR. STICHNOTH: Okay. So would you be
10 willing to guarantee that the wells, financially
11 guarantee that if anyone's well goes dry that you
12 would repair it because there is no risk?

13 MR. JAMES: No, we wouldn't.

14 MR. STICHNOTH: Okay, thank you.

15 MR. SMITH: Yeah, Ben Smith, S-M-I-T-H.
16 You know, we're small town folks and we gather at
17 the local restaurant, we all talk amongst ourselves,
18 that's just the way it is. The local well drillers
19 are Reiners, Becks. Mr. Beck, I've known him
20 forever. Findlay, I didn't even stop and talk to
21 them. But Mr. Reiner said that they weren't asked
22 to dig test wells because they're familiar with the
23 area and there's just not that kind of water in our
24 area. That's well driller number one.

PUBLIC INFORMATIONAL MEETING

55

1 HEARING OFFICER TEEFEY: I hate to cut you
2 off, but is there -- do you have a question for --

3 MR. SMITH: No, this is just a statement.

4 HEARING OFFICER TEEFEY: Okay, there will
5 be an opportunity at the end for statements.

6 MR. SMITH: Okay, I didn't --

7 HEARING OFFICER TEEFEY: This is just for
8 questions now.

9 MR. SMITH: I just -- okay, sorry I didn't
10 go through the proper procedure.

11 HEARING OFFICER TEEFEY: No problem, but
12 there's an opportunity to present that oral
13 testimony after the question phase of this meeting.
14 Are there any other questions for the facility or
15 the department at this time?

16 MR. BARD: Yes, Roger Bard. And you have
17 it, thank you, ma'am. You inject this manure. Is
18 it liquified, do you make it into a slurry, or how
19 does it come out of the pit?

20 MR. JAMES: It comes out as a slurry,
21 liquid slurry.

22 MR. BARD: Okay, and it is injected how
23 deep?

24 MR. JAMES: About 5 to 8 inches

PUBLIC INFORMATIONAL MEETING

56

1 underground.

2 MR. BARD: And it will be injected over
3 the same amount of land year after year?

4 MR. JAMES: Well, it's going to depend
5 on -- he's got enough land available that we'll
6 probably rotate between corn or soybeans. If we go
7 with just corn on corn, it would be injected in the
8 same ground year after year.

9 MR. BARD: How deep is it injected?

10 MR. JAMES: 5 to 8 inches.

11 MR. BARD: Okay. Now, say you get a --
12 over a three or four day period you get 4 inches of
13 rain. What is the chance of that slurry, however --
14 whatever it is that's injected, leaching into some
15 shallow tile and ending up contaminating a stream?

16 MR. NIMS: Can I jump in on that a little
17 bit? So part of the advantage of having a year's
18 worth of storage is that we're not, we don't -- we
19 have a lot of time to find good stretches of weather
20 to apply to the fields, so we don't have to worry
21 about rain that much. Obviously storms, rains blow
22 up out of nowhere, but 4 inch storms don't typically
23 happen out of the blue, so --

24 MR. BARD: It's been known to happen, sir.

PUBLIC INFORMATIONAL MEETING

57

1 MR. NIMS: Never say never, but yeah,
2 okay. So there was another part of that. Part of
3 the nutrient management plan, you were talking about
4 crop fields and stuff, that I mentioned in my
5 presentation. So we will take nutrient values of --
6 take soil samples to figure out what nutrient
7 content is already in the soil, then come up with an
8 application rate, and take samples of the manure
9 itself to come up with the nutrient value of the
10 manure, and then look at those different fields and
11 then come up with a plan and a crop rotation and an
12 application rate for each one of those fields, and
13 those plans are done five years, planned out five
14 years in advance, so --

15 MR. BARD: Then you're saying there's no
16 problem at all of leaching into the tile.

17 MR. NIMS: Within that plan -- that's what
18 I forgot to mention. Within that plan itself, there
19 are setbacks from waterways, surface waters, tile
20 risers. There are regulations that the EPA has that
21 we have to meet. If you have a 40 acre field, you
22 don't necessarily get to apply on 40 acres depending
23 on what that field is made up of. Like I said,
24 waterways, tile lines, field risers, stuff like

PUBLIC INFORMATIONAL MEETING

58

1 that, there are setbacks to all of those.

2 MR. BARD: But, in other words, these
3 fields he's putting the manure in, then, has no tile
4 or does it -- or it has no tile that will be -- have
5 a problem of leaching?

6 MR. NIMS: I don't know about fields, I
7 don't know individual fields, but it's applied at a
8 rate that we're not allowed to run off, so --

9 MR. BARD: I'm not talking runoff, sir.
10 I'm talking leaching down into the tile.

11 MR. NIMS: Sure. It's typically not an
12 issue, no.

13 MR. BARD: Typically.

14 MR. NIMS: No.

15 MR. BARD: So like being a little bit
16 pregnant?

17 MR. HARRISON: Here's the only thing I
18 would add is, you know, we're trying to use this
19 manure source as fertilizer for the crops, so it
20 doesn't make any good sense for us to go out and
21 apply it ahead of a rain where we're going to lose
22 all those nutrients, right? I mean we're trying to
23 put it in the ground where the crops can grab ahold
24 of it and utilize it. That's part of the value

PUBLIC INFORMATIONAL MEETING

59

1 here, right? That's really the goal.

2 MR. BARD: Okay, thank you.

3 MR. HAAG: Mike Haag, H-A-A-G. Jake,
4 maybe you could explain a little bit. By injecting
5 the manure into the ground, doesn't that
6 automatically filter the manure out? The only thing
7 that can leach is the raw nutrients not the manure,
8 right? Isn't that -- could you explain that
9 process? By injecting it in the ground, it's
10 saturated into the ground, it can't go anywhere.

11 MR. NIMS: You guys want to explain it
12 better?

13 MR. HARRISON: I'm not an agronomist.

14 MR. JAMES: Yeah, it is placed where it
15 can remain there for the crop. It's not going to --
16 you know, you never say never, but it shouldn't
17 leach from there. And as it showed in the -- in the
18 presentation, where those grooves are cut, that
19 ground is covered back up right behind it. It's not
20 leaving a ditch that's got, you know, the slurry in
21 it.

22 HEARING OFFICER TEEFEY: Other questions?

23 MR. TWEEDY: So --

24 HEARING OFFICER TEEFEY: Could you state

PUBLIC INFORMATIONAL MEETING

60

1 your name?

2 MR. TWEEDY: Mark Tweedy. As that
3 applicator, if that's what you're using, turns on
4 the end rows, does it shut off or does it
5 continually run as it turns the corner and get backs
6 on the long row?

7 MR. JAMES: It's going to depend. He's
8 got -- he will have the area that he can spread on.
9 And so at the end rows, he can't continually pump,
10 you know, in an end row. He's going to have to
11 follow the map that shows him where he'll put the
12 manure.

13 MR. TWEEDY: Yes, but does the applicator
14 shut off pumping as they -- as it lifts up and turns
15 on the end row?

16 MR. JAMES: Oh, yeah. Oh, yeah.

17 MR. TWEEDY: That would shut off on the
18 end rows.

19 MR. JAMES: Oh, yeah.

20 MR. TWEEDY: And it won't deposit on the
21 surface.

22 MR. JAMES: Yes.

23 MR. TWEEDY: Okay.

24 HEARING OFFICER TEEFEY: Yes.

PUBLIC INFORMATIONAL MEETING

61

1 MR. ANDERSON: Nic Anderson. Just a
2 little clarification. So if we were using a tanker
3 on application, that they pulled up at the end and
4 turned around and stuff was on top of the surface,
5 what's the practice, best management practice to
6 address manure that's not incorporated?

7 MR. HARRISON: They would disc it in,
8 right.

9 MR. ANDERSON: Is that a practice you will
10 follow?

11 MR. JAMES: Yes.

12 MR. ANDERSON: Jake, maybe some clarity in
13 understanding. The reason -- can you tell me if
14 rain falls in a runoff surface area and you're
15 putting manure 8 inches below, does that come in
16 contact with the runoff from rainfall?

17 MR. NIMS: It shouldn't, no.

18 MR. ANDERSON: Is that why you incorporate
19 it?

20 MR. NIMS: Sure.

21 MR. ANDERSON: Okay, thanks.

22 HEARING OFFICER TEEFEY: Any other
23 questions? Okay, we will now accept written
24 testimony. So if you have written testimony that

PUBLIC INFORMATIONAL MEETING

62

1 has not been referred to previously or is not going
2 to be referred to in your oral testimony, I will
3 accept it now and enter it into the record. So if
4 you have written testimony that you will be
5 referencing during your oral testimony, it will be
6 entered into the record after you present your oral
7 testimony. So is there any written testimony to be
8 offered at this time?

9 Okay, I have in front of me the sign-up
10 sheets for oral testimony that were at the entrance
11 to the room listing the people who wish to provide
12 oral testimony. I will call the names of those who
13 wish to testify. When called upon, please come up
14 to the microphone, state your name and spell your
15 last name for the court reporter. I will then swear
16 you in. Please remember, you will have three
17 minutes to speak. I have a timer up here and you
18 will hear it beep at the end of that three minutes.

19 As I mentioned earlier, if there are
20 attorneys who are representing clients, you will
21 have the opportunity to speak for a total of 15
22 minutes on behalf of all those clients -- on behalf
23 of all those clients. Are there any attorneys here
24 that are representing clients?

PUBLIC INFORMATIONAL MEETING

63

1 Okay. So at this time, I will just go
2 down the list of those who signed up for oral
3 testimony, and I apologize if I botch your last
4 name, but I will do my best. First we have Marvin
5 Stichnoth. And again, as you come up here, please
6 state your name, spell your last name for the court
7 reporter, and then I'll ask you to raise your right
8 hand and I will swear you in.

9 MR. STICHNOTH: Okay, Marvin Stichnoth,
10 the same as before, S-T-I-C-H-N-O-T-H.

11 (Mr. Marvin Stichnoth was duly sworn.)

12 HEARING OFFICER TEEFEY: You may proceed.

13 MR. STICHNOTH: I visited with Kim and
14 Darrell Cambron who live nine-tenths of a mile
15 northeast of the Rankin hog finishing operation.
16 They do smell the hogs. Electrostatic fencing
17 didn't help them. The chemical to treat the manure
18 pit was apparently too expensive. They wear masks
19 when they have to be outside when the wind is in the
20 right direction, and that's almost a mile away. I
21 have a letter from Mr. Cambron.

22 Just to be clear, Kim and I think the
23 smell from the hog place is unacceptable. When the
24 wind is from the southeast, it is unbearable. We

PUBLIC INFORMATIONAL MEETING

64

1 want to sell our home of over 25 years and move away
2 as soon as possible. The smell is an invasion of
3 our property rights without our consent or
4 compensation. Elected officials and the Illinois
5 Department of Pork are no help. It's all rigged in
6 favor of the greedy farmer.

7 Take my word for it, you do not want one
8 of these things within two miles of your home. No
9 matter which direction the wind is from, someone is
10 getting the full effect of the stench. It persists
11 in the yard for days. The smell lingers in the barn
12 and other outbuildings. As soon as you open the
13 door, you get blasted by the smell. It gets on your
14 clothes. Sometimes when it's bad in the morning, I
15 get to work and still the smell is on my clothes.
16 It gets on the dogs and they bring it into the
17 house.

18 First the wind turbines and now the hog
19 stench. In our area the neighbors do not care about
20 each other. They only worship the dollar and what
21 they can get for themselves.

22 I visited with Mr. Chris Elliott who lives
23 northeast across the section about a mile. He says
24 the smell isn't too bad. He says it usually occurs

PUBLIC INFORMATIONAL MEETING

65

1 when they're having a party outside. But if he
2 leaves his tractor cab door open and the shed door
3 open when the wind is right, the smell gets into the
4 cab and doesn't leave for some time. The hog smell
5 seems to penetrate and stay, even on one's skin.
6 Mr. Elliott's home is 1.2 miles northeast. The
7 Cambron home is nine-tenths of a mile north. There
8 is a house for sale six-tenths of a mile south
9 southeast. It's been on the market for some time
10 and the real estate agent doesn't have much hope for
11 selling it very soon. The Wilken farm from E5 is
12 four-tenths of a mile from the E5 facility.

13 The environmental survey, I think, means
14 very little when it says that tile is within a
15 hundred feet and no abandoned wells were within a
16 thousand feet of E5. There is an abandoned well
17 less than 400 feet from E5.

18 My son is a VP of a group of rural banks
19 in northern Illinois between Rockford and Freeport.
20 There are a few corporate hog farms in that area.
21 The nearby homes are mostly turning into rental
22 property as the owners move away. It pretty much
23 destroys the quality of life in the area.

24 My constituents pretty much agree with Mr.

PUBLIC INFORMATIONAL MEETING

66

1 Cambron that the corporate hog farm and a greedy
2 local farmer are destroying the property values and
3 quality of life in the community. Why do homes in a
4 small community have a half-mile setback but two or
5 three homes only have a quarter mile?

6 HEARING OFFICER TEEFEY: Thank you. Would
7 you like to enter that written testimony --

8 MR. STICHNOTH: I could, I could.

9 HEARING OFFICER TEEFEY: -- as an exhibit?
10 I can accept that over here.

11 MR. STICHNOTH: Okay.

12 HEARING OFFICER TEEFEY: So this written
13 exhibit will be entered as Exhibit No. 5 into the
14 record.

15 Next on the sign-up sheet for oral
16 testimony is Randy Poskin. If you could please
17 state your name and spell your last name for the
18 court reporter.

19 MR. POSKIN: Randy Poskin, P-O-S-K-I-N.

20 HEARING OFFICER TEEFEY: Could you raise
21 your right hand?

22 (Mr. Randy Poskin was duly sworn.)

23 MR. POSKIN: Good evening. I am Randy
24 Poskin. I'm the District 6 director for the

PUBLIC INFORMATIONAL MEETING

67

1 Illinois Farm Bureau. I represent Ford-Iroquois,
2 Kankakee and Livingston County Farm Bureaus. I am
3 also a fifth generation grain farmer and livestock
4 farmer in the Ashkum area in northwest Iroquois
5 County.

6 Today's farms have changed over the course
7 of a few decades just as many of our homes and
8 businesses have evolved through the years. Although
9 the size of farms has grown for some, the values we
10 hold dear are just as strong today as they were
11 generations ago. We too want safe food, quality
12 care of animals, and protection for our environment.

13 The Livestock Management Facilities Act
14 governs the siting, construction and certain aspects
15 of operating livestock farms in our state. It
16 ensures that livestock farms are sited on scientific
17 objective criteria, and rules are applied uniformly
18 throughout the state.

19 Tonight this meeting provided neighbors
20 and community members an opportunity to ask
21 questions or comment on the proposed construction of
22 a new barn in this county. The testimony presented
23 outlined for all of us in attendance the plans for
24 this proposed barn to meet each set of criteria in

PUBLIC INFORMATIONAL MEETING

68

1 the LMFA, including environmental protections,
2 manure management and odor mitigation.

3 Should the department discover through the
4 testimony tonight, the information contained within
5 the application and inspections of the proposed site
6 that the project has the ability to meet the
7 standards set forth in the LMFA, then it should be
8 allowed to proceed through the LMFA process to the
9 next phase.

10 Illinois Farm Bureau supports all aspects
11 of agriculture, including the development of
12 livestock farms. Animal agriculture plays a vital
13 role in the economies of Illinois, including
14 counties such as Iroquois. As an organization, our
15 policy is to encourage the growth and enhancement of
16 livestock in Illinois, provided these farms comply
17 with statutory and regulatory requirements.

18 Bringing more livestock production into
19 Illinois, and specifically Iroquois County, allows
20 future generations an opportunity to become involved
21 in animal agriculture. The prospects available to
22 newer farmers can be limited, but expanding a farm
23 to include livestock allows those interested a place
24 in the agriculture industry.

1 On behalf of the Illinois Farm Bureau, I
2 appreciate the opportunity to speak to you tonight.
3 Thank you.

4 HEARING OFFICER TEEFEY: Thank you. Next
5 on the list is, and I might have this last name
6 completely wrong, but Ron Bork?

7 MR. BORK: Bork, yes. Ron Bork, B-O-R-K.

8 (Mr. Ron Bork was duly sworn.)

9 MR. BORK: As I stated, my name is Ron
10 Bork. My family and I have been farming in the
11 Piper City area for in excess of a hundred years,
12 and I currently serve as president of Ford-Iroquois
13 County Farm Bureau which most of you know is a
14 general farm organization representing a majority of
15 the farmers in Ford and Iroquois Counties.

16 Ford-Iroquois Farm Bureau supports the
17 growth and enhancement of the livestock industry in
18 Iroquois County. Like many of the speakers tonight,
19 I live and farm this area. Although I don't raise
20 livestock currently, the commodities grown on my
21 farm can be used by farmers who do. We need
22 livestock in this area not only as a market for our
23 grain but also as an opportunity to bring or keep
24 our young people in our rural communities instead of

1 leaving for the urban areas. Livestock helps keep
2 our hometowns alive and provides permanent
3 employment opportunities, construction jobs and
4 adding tax base to our local area.

5 Our proximity to large grain supplies,
6 excellent transportation infrastructure as well as a
7 work force in Iroquois County make ideal raising
8 livestock. Livestock farms in Iroquois County
9 currently contribute 73.8 million to the economy
10 each year as well as providing around 225 jobs.
11 This very project with the family will bring new
12 opportunities to our area.

13 Ford-Iroquois Farm Bureau supports the
14 Livestock Facilities Management Act, LMFA, which
15 provides statewide standards for siting,
16 construction and certain operating procedures of
17 livestock farms in the state under the direction of
18 the Illinois Department of Agriculture. This
19 facility must demonstrate the ability to meet the
20 eight siting criteria for the Department of
21 Agriculture. Testimony we heard here tonight will
22 help to make that decision and allow this farm the
23 opportunity to continue towards development and
24 remaining provisions of the LMFA.

PUBLIC INFORMATIONAL MEETING

71

1 As farmers, we work hard to provide safe,
2 affordable food for our neighbors, our families and
3 our communities. Farms like the one proposed
4 tonight implement new technologies and designs as
5 well as trainings, like pork quality assurance, to
6 ensure protection of the environment and proper
7 animal care. A properly managed barn will be
8 beneficial to Iroquois County. Bringing new
9 livestock barns to our area will help our rural
10 areas survive for future generations.

11 On behalf of Iroquois County Farm Bureau,
12 I appreciate the opportunity to present these
13 comments.

14 HEARING OFFICER TEEFEY: Good timing.
15 Thank you. Next is Wade Harrison.

16 MR. HARRISON: I'll pass.

17 HEARING OFFICER TEEFEY: Jennifer Tirey.

18 MS. TIREY: Jennifer Tirey, T-I-R-E-Y.

19 (Ms. Jennifer Tirey was duly sworn.)

20 MS. TIREY: Good evening. First of all,
21 I'd like to thank the county board for being here
22 tonight. I know that several of you have actually
23 been out to the barn, one of the barns that are
24 similar to this proposed barn, and have been out and

PUBLIC INFORMATIONAL MEETING

72

1 asked questions. I appreciate that. The thing that
2 we enjoy and appreciate about these sort of events,
3 these hearings in the counties, is that it allows us
4 to be transparent and answer your questions.

5 I represent -- am with the Illinois Pork
6 Producers Association, I'm their executive director,
7 and I represent nearly 1900 pork producing families
8 throughout the State of Illinois. This is how we do
9 our livelihood. We live and work and contribute to
10 the communities, just like this one in Iroquois
11 County, and so we want to be able to answer
12 questions that you have as county board members and
13 as members of the community.

14 One of the questions that came up this
15 evening directed to property values and the question
16 of devaluing. I can give you examples across our
17 state where we have actually had pig farmers that
18 have had their barns, and after their barns were
19 already in place and had been up and running for
20 years, we've had full-fledged subdivisions come up
21 near those farms. And so that is a situation where
22 every preference is different, but however, we do
23 actually have those situations where these
24 multi-generation farms have been in operation before

PUBLIC INFORMATIONAL MEETING

73

1 people move into those areas.

2 Once again, I want to thank you for the
3 opportunity to be here tonight and we appreciate the
4 opportunity to answer any of your questions and
5 concerns. Thank you.

6 HEARING OFFICER TEEFEY: Thank you. Mark
7 Tweedy.

8 MR. TWEEDY: Mark Tweedy, T-W-E-E-D-Y.

9 (Mr. Mark Tweedy was duly sworn.)

10 MR. TWEEDY: One barn might not be so bad,
11 but you've got three barns and 13,500 pigs. That
12 can be a problem. I think it's going to be a
13 problem. How many people live -- want to live next
14 to a 13,500 pig facility? And there's nothing,
15 nothing we can do about it. You know, you can't say
16 no. They went through their guidelines, and thank
17 God you got guidelines, or otherwise they'd be right
18 on your doorstep but -- and they've dotted the I's
19 and crossed the T's, but if you live on an 80,000
20 pound road, you're subject to them in Iroquois
21 County, so get ready. What's the next phase? I
22 don't know. So you got to think long and hard about
23 this, and that's all I got to say.

24 HEARING OFFICER TEEFEY: Thank you. Mike

PUBLIC INFORMATIONAL MEETING

74

1 Haag.

2 MR. HAAG: Mike Haag, H-A-A-G.

3 (Mr. Mike Haag was duly sworn.)

4 MR. HAAG: Hello, everyone, my name is
5 Mike Haag. I'm from Livingston County about 50
6 miles away from here. I'm a fourth generation
7 farmer, I think. There's a little question back
8 that far. Third livestock I know of. My children
9 will be the fifth generation on this farm.

10 I think there's been some great questions
11 brought up, and I do -- I do think that it's great
12 to hear the questions. I think there should be
13 questions about property value and water and land
14 values, I think those are all very good questions,
15 but I think it's exciting times to see some
16 livestock growth in this area.

17 And I get very disappointed as throughout
18 the state -- and I've been on livestock farms my
19 whole life, and I get very disappointed when I hear
20 farmers that complain about their commodity prices,
21 but yet want to discourage neighbors from raising
22 livestock. I find that very disappointing.

23 My daughter -- we talked about the manure
24 thing. I just did a two-day video shoot with my

PUBLIC INFORMATIONAL MEETING

75

1 daughter last week. She is an American Star
2 Finalist in agri-science. That's a big deal if you
3 know anything, but she's one of the top four in the
4 country in that area. They came and did a video
5 shoot. Her project design is on nutrient management
6 and then how nitrates move through the soil and go
7 down to the Gulf of Mexico and how it's a problem.

8 But one part of her project is the manure
9 management. She's got video footage. They hung a
10 drone out in front of her as we were applying manure
11 last week drag lining through the field. It's
12 really cool. I think it's an amazing comparison to
13 how I did it when I was a kid when we used to have
14 to blow it out the back. We're actually
15 incorporating this in the ground. We didn't know
16 any better back then. We've learned. We do so much
17 better for our soil nowadays. We're able to put it
18 in the ground completely utilizing this process.

19 I have three children and I understand
20 your concerns about smell. My kids were able to go
21 to school every day and I don't think they got made
22 fun of too much. A hundred feet from the barn we
23 had 1200 sows my whole life. Is there smell a few
24 days a year? Yes, but I didn't see it contaminating

PUBLIC INFORMATIONAL MEETING

76

1 my clothes. I had to shower when I come in, like
2 most of us do when we come home from work, but it
3 did not ruin my life. And I find it hard to believe
4 when people talk about that.

5 We live in ag zoned areas and they're ag
6 zoned to raise crops and livestock. And I think
7 it's great that people live in those area, but they
8 need to realize that they live in ag zoned areas to
9 raise food for the population.

10 I just -- oh, we talked about building age
11 and I was going to bring that up real quick. We are
12 still using some barns that we raised -- started
13 about 22 years ago, we put some new finishing barns
14 up, still in existence. On the flip side of that,
15 we did just decommission two lagoons which through
16 the Department of Agriculture just got approved last
17 week, the final of it. One got turned into a
18 fishing pond and the other -- and those were 35
19 years old. We had also decommissioned those
20 buildings, so I just -- the buildings do last a long
21 time. That's all I had.

22 HEARING OFFICER TEEFEY: All right, thank
23 you.

24 MR. HAAG: Thank you very much.

PUBLIC INFORMATIONAL MEETING

1 HEARING OFFICER TEEFEY: Nic Anderson.

2 MR. ANDERSON: N-I-C, A-N-D-E-R-S-O-N.

3 (Mr. Nic Anderson was duly sworn.)

4 MR. ANDERSON: Thank you for having us
5 here tonight and being able to talk about this farm,
6 and we do realize there's some emotion attached to
7 some of this. Fear of the unknown sometimes can
8 overwhelm us. I do want to thank board members that
9 did take the chance to come out to the farm:

10 Marvin, Board Member Crow, Duby, Behrends and
11 McGinnis. I hope you had a good visit out there. I
12 think we learned a lot. There was some good
13 communication.

14 We looked at the tile drains and the drain
15 from the buildings and how that was designed.
16 Actually had Anthony talk to his landlord about the
17 issues of drainage and tile, and very satisfied that
18 we can manage that. And the site that we went to, I
19 think in the earlier testimony, the Cambrons and the
20 Elliotts, those were the two sites that we went to
21 on our visit, and I know that that day the impact
22 wasn't there. We saw a system that had an
23 electrostatic screen in it and another system right
24 down the road that didn't, and that's the whole

PUBLIC INFORMATIONAL MEETING

78

1 determination Parks is trying to evaluate: are
2 those able to be used? Those were put in place for
3 that purpose, to see if that could be addressed. So
4 to demand that that's put in and then condemn it
5 because it doesn't work really isn't a solvable
6 solution. But I do believe the days that I went out
7 there and the days that others were there that
8 weren't on the farm tour are typical days on hog
9 farms.

10 So I hope you as board members can be
11 liaisons to the folks that couldn't be here. I sure
12 wish other board members could be here because
13 they're going to take a very important vote in the
14 next coming weeks to support this project, support
15 agriculture in the county and support animal
16 agriculture, and I hope you can share your
17 experience. Whether good, bad or indifferent or
18 impactful or not, you need to share your experience
19 with them so we have a good picture, because they
20 couldn't be here tonight for whatever reason.

21 So I hope this meeting has been beneficial
22 for those, and I hope the Department of Agriculture
23 gained enough insight that we can confirm the LMFA
24 process and approve these barns to be a big part of

PUBLIC INFORMATIONAL MEETING

79

1 this community. And I hope some day down the road
2 that more projects like this can come because we
3 didn't talk a lot about the economic benefits, the
4 taxes going to the school. Those roads that people
5 think can be impacted, agriculture is paying for
6 those today to get our goods and services, crops and
7 tractors up and down the road every day as farmers.
8 The impact from a thousand acre field is no
9 different than an impact from any one of these
10 barns. So they're going to follow the rules and do
11 what's right.

12 They will also have an increased tax rate
13 to the road district. Whether it's enough or not
14 for anybody's opinion, that's for the taxing body to
15 decide on how they're going to spend the money and
16 reinvest taxes in this community. I'm not for more
17 taxes, but they are paying their fair share like
18 everybody is and we expect them to. Thank you very
19 much.

20 HEARING OFFICER TEEFEY: Thank you. Chuck
21 Gocken.

22 MR. GOCKEN: Gocken, G-O-C-K-E-N.

23 HEARING OFFICER TEEFEY: I apologize for
24 that. Would you raise your right hand.

PUBLIC INFORMATIONAL MEETING

1 (Mr. Chuck Gocken was duly sworn.)

2 MR. GOCKEN: I would like to speak tonight
3 as the Ford-Iroquois Pork Producer president and
4 someone who has many years of training and
5 experience in the pork industry. I'm speaking
6 tonight on behalf of raising swine in Iroquois
7 County.

8 From what I understand, all the criteria
9 have been met by this barn. The Lucht family wants
10 to make a long-term commitment to raising pork for a
11 growing world with a need for safe, healthy protein.
12 This family has been showing pigs for quite a few
13 years and has developed a passion for caring and --
14 caring and growing pigs to their best ability.
15 Hailey, their oldest daughter, has also won a Farm
16 Bureau scholarship for her college education. She
17 is a young lady that sees a future in agriculture.
18 She plans to make herself a useful part of Iroquois
19 County agriculture.

20 It is good to see a young family that has
21 a passion for agriculture and the willingness to
22 invest time, money -- time and money to make this
23 dream happen. We need more families to do this as
24 well. We have -- we have too many people that drive

PUBLIC INFORMATIONAL MEETING

81

1 to other counties for their jobs, myself included.
2 Jobs that are created by these buildings will help
3 us keep these people in our communities paying taxes
4 and contributing to our local communities.

5 This barn will also help by using corn and
6 soybeans that we grow in abundance in Illinois. The
7 manure from this barn will help make this farm more
8 self-sufficient. It will do this by using nitrogen,
9 phosphorus and calcium that wouldn't be purchased
10 commercially. This kind of fertilizer is also
11 better for the soil and makes it more productive.

12 In conclusion, I am in favor of this
13 family and their partners building this barn. I
14 feel in the future that this family and others like
15 them deserve a chance to invest themselves and the
16 future -- into the future of agriculture.

17 That's it for my statement, but I also
18 have a statement from the Lucht family if I could
19 read that because they weren't available to be here.

20 HEARING OFFICER TEEFEY: Sure.

21 MR. GOCKEN: Okay.

22 HEARING OFFICER TEEFEY: But this does
23 still fall under your current testimony time just so
24 you know.

PUBLIC INFORMATIONAL MEETING

82

1 MR. GOCKEN: So do I need to --

2 HEARING OFFICER TEEFEY: You have one
3 minute.

4 MR. GOCKEN: I would like to start by
5 saying thank you for attending tonight and I
6 apologize for not being able to make it due to
7 previous established plans.

8 Myself and my wife Danielle were born and
9 raised in Iroquois County by farming and livestock
10 families. I do not tell you this because I feel
11 that we are entitled to anything, but to let you
12 know our commitment to our community, family and
13 livestock industry.

14 Today's production agriculture is rapidly
15 changing. New equipment and technologies have
16 allowed farmers to increase production and work more
17 efficiently, therefore extends a farmer's career
18 well past traditional retirement of farming
19 operations. This new era has limited entry into
20 farming operations and days of crop sharing became
21 more of a thing in the past.

22 In our area, cash rents and record land
23 values have made it impossible to -- for a young
24 farmer to get started or to expand their existing

PUBLIC INFORMATIONAL MEETING

83

1 operation. These challenges have led us to explore
2 other ways of growing our farm.

3 The opportunity we have with Parks and
4 Equity is a viable solution for young producers like
5 us to grow equity, generate cash flow, establish
6 business assets while producing a product that will
7 reduce our inputs in our grain operation. Our
8 proposed livestock facility is designed to utilize
9 some of the newest technologies and sciences that
10 help become more efficient, safer to the animal,
11 worker, and become more responsive to the needs of
12 the environment than livestock operations in the
13 past, all while producing a top quality product that
14 is made in the USA and feeding the world -- growing
15 world population.

16 During the planning process we selected
17 sites that we felt best minimizes odors and allows
18 environmental stewardship. We will follow all the
19 rules and requirements of the Illinois -- the
20 Livestock Management Facilities Act which governs
21 the siting of livestock farms and reduces impacts on
22 the surrounding area.

23 HEARING OFFICER TEEFEY: I apologize, but
24 I'm going to have to cut you off. I can enter that

PUBLIC INFORMATIONAL MEETING

84

1 into -- as part of the written testimony. I will
2 include that as Exhibit No. 5 in the record.

3 MR. GOCKEN: That one.

4 HEARING OFFICER TEEFEY: So this is -- I
5 will actually enter this as Exhibit No. 6 which is
6 written testimony from the Lucht family. L-I-S-T?

7 MR. GOCKEN: No, L-U-C-H-T.

8 HEARING OFFICER TEEFEY: L-U-C-H-T. So
9 that will be entered as Exhibit No. 6.

10 MR. GOCKEN: And this one.

11 HEARING OFFICER TEEFEY: Also entered into
12 the record is Exhibit No. 7 which is written
13 testimony from Chuck Gocken. Thank you.

14 Is there anyone else who would like to
15 provide oral testimony at this time? Did you want
16 to provide or --

17 VOICE: No, sir. Thank you for the
18 opportunity though.

19 HEARING OFFICER TEEFEY: No problem.
20 Entered into the record as Exhibit No. 8 is the
21 sign-up sheet for oral testimony. And this now
22 concludes the oral testimony portion of the meeting.

23 Entered into the record as Exhibit No. 9
24 is the attendance sign-in sheet.

PUBLIC INFORMATIONAL MEETING

85

1 At this time, does the facility have any
2 closing remarks?

3 MR. JAMES: No.

4 HEARING OFFICER TEEFEY: The facility has
5 indicated that it does not have any closing remarks.
6 Are there any closing remarks from the department?

7 MR. GOETSCH: I would just like to say
8 that on behalf of the department, I would like to
9 thank you for your participation in this public
10 informational meeting tonight. Let me assure you
11 that the department appreciates the time and effort
12 that you've put forward to give us your comments.
13 I'm sure that the Iroquois County Board will
14 consider them as they develop their recommendation
15 to the department, and I can assure you that the
16 department will consider them then as we complete
17 our evaluation process in the future. Thank you
18 again and have a safe trip home this evening.

19 HEARING OFFICER TEEFEY: Thank you. As I
20 mentioned earlier, a copy of the transcript from
21 tonight's meeting will be provided to the Iroquois
22 County Board. For others desiring a copy, the
23 transcript will be available by contacting the court
24 reporter.

PUBLIC INFORMATIONAL MEETING

1 Thank you again for your attendance
2 tonight. This public informational meeting is
3 hereby closed.

4 (Adjourned at 7:19 p.m.)

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

1 STATE OF ILLINOIS)
)SS
2 COUNTY OF FORD)

3
4 I, June Haeme, a Notary Public in and for
5 the County of Ford, State of Illinois, do hereby
6 certify that the Public Informational Meeting was
7 taken at the Iroquois County Administrative Center,
8 1001 East Grant Street, Watseka, Illinois, on
9 September 5, 2019.

10 That the said Public Informational Meeting
11 was taken down in stenograph notes and afterwards
12 reduced to typewriting under my instruction and that
13 the transcript is a true record of the Public
14 Informational Meeting.

15 I do further certify that I am a
16 disinterested person in this cause of action; that I
17 am not a relative, or otherwise interested in the
18 event of this action, and am not in the employ of
19 the attorneys for either party.

20 IN WITNESS WHEREOF, I have hereunto set my
21 hand and affixed my notarial seal this 12th day of
22 September, 2019.

23

24

25

26 JUNE HAEME, CSR
27 NOTARY PUBLIC

28

29

30 "OFFICIAL SEAL"
31 June Haeme
32 Notary Public, State of Illinois
33 My Commission Expires:
34 September 28, 2020

35

36

37

38

| | | | | |
|--|--|---|---|---|
| | 71:22;72:17,23; 75:14;77:16;84:5 | 15:14;42:14;43:7; 58:21 | Anthony (2) 18:9;77:16 | 50:9;51:4;54:6,8,23, 24;60:8;61:14;64:19; 65:20,23;67:4;71:9; 74:16;75:4;76:7; 82:22;83:22 |
| \$ | add (4) | ahold (1) | anticipated (1) | areas (11) |
| \$20,000 (1) 18:20 | 51:5,8,11;58:18 additional (4) 12:8;14:9;33:17; 46:11 | 58:23 aids (1) 30:14 | 29:16 apologize (4) 63:3;79:23;82:6; 83:23 | 9:22;13:6;21:20; 25:23;26:2;33:6;37:6; 71:10;73:1;76:5,8 |
| [| additive (1) | air (3) | apparently (1) | area's (2) |
| [indicating] (1) 25:7 | 39:12 address (1) 61:6 | 28:8;29:1;40:8 alleviate (1) 35:19 | 63:18 appeared (1) 44:17 | 13:4;24:2 around (9) |
| A | addressed (1) 78:3 | allow (2) 30:12;31:8 | applicable (3) 9:14;11:13;33:5 | 44:16,20;46:17,20, 23;47:1;48:11;53:10; 61:4 |
| abandoned (4) 44:3,7;65:15,16 | adequate (2) 26:23;50:18 | allowed (4) 6:22;58:8;68:8; 82:16 | applicant (3) 14:15;15:3;34:22 | arrow (1) 25:6 |
| abiding (1) 46:18 | Adjourned (1) 86:4 | allows (4) 68:19,23;72:3; 83:17 | application (23) 10:18;11:4,12,16, 17;14:13,19;21:20, 22;28:1,4,7,10,12; 29:9;34:21,22;38:15; 45:11;57:8,12;61:3; 68:5 | Ashkum (1) 67:4 |
| ability (3) 45:2;68:6;80:14 | administration (1) 9:8 | almost (1) 63:20 | apply (6) 10:13;39:7,9;56:20; 57:22;58:21 | aspects (2) 67:14;68:10 |
| able (8) 30:5;47:6;72:11; 75:17,20;77:5;78:2; 82:6 | adopted (1) 24:10 | alternate (1) 36:20 | applicator (4) 28:12,21;60:3,13 | assets (1) 83:6 |
| above (1) 29:23 | advance (1) 57:14 | Although (1) 67:8 | applications (2) 23:23;29:14 | assist (1) 7:20 |
| abundance (1) 81:6 | advantage (1) 56:17 | always (2) 10:13;17:6 | applied (3) 28:11;58:7;67:17 | associated (4) 14:19,22;21:8; 25:16 |
| accept (5) 6:1;7:11;61:23; 62:3;66:10 | afford (1) 4:6 | amazing (1) 75:12 | apply (6) 10:13;39:7,9;56:20; 57:22;58:21 | Association (1) 72:6 |
| accepted (1) 28:9 | affordable (1) 71:2 | amended (1) 9:19 | applying (2) 39:14;75:10 | assume (2) 52:4;54:2 |
| accomplished (3) 17:18;21:16;27:13 | afforded (1) 12:15 | American (1) 75:1 | appraisal (2) 39:22;40:6 | assurance (1) 71:5 |
| according (4) 19:1;20:19;22:7; 50:20 | Ag (9) 20:16;21:3,9;23:12, 17;24:10;76:5,5,8 | amongst (1) 54:17 | appreciate (7) 8:2;33:14;51:21; 71:12;72:1,2;73:3 | assure (2) 85:10,15 |
| accumulation (1) 30:1 | again (15) 3:6;8:2;18:7;22:15; 24:20;30:22;32:11, 15;47:8;52:1;53:15; 63:5;73:2;85:18;86:1 | amount (9) 6:6;30:4;36:15,22; 37:24;50:4,21;53:16; 56:3 | appreciated (1) 8:24 | attached (1) 77:6 |
| acre (3) 41:2;57:21;79:8 | age (1) 76:10 | anaerobic (1) 9:24 | appreciates (1) 85:11 | attend (1) 23:20 |
| acres (4) 29:12,17;43:9; 57:22 | agent (1) 65:10 | analysis (1) 21:20 | appropriate (3) 11:18;12:6;13:2 | attendance (4) 6:11;67:23;84:24; 86:1 |
| across (5) 36:14;39:11;46:17; 64:23;72:16 | ago (3) 37:14;67:11;76:13 | ANDERSON (14) 45:9,9,17,20;61:1,1, 9,12,18,21;77:1,2,3,4 | approve (2) 34:21;78:24 | attending (2) 8:23;82:5 |
| Act (22) 4:4,24;5:8;9:10,15, 17,19,21;10:9;11:14; 12:9,19,24;20:20; 22:4;30:19;33:7,13; 35:4;42:17;67:13; 83:20 | agree (1) 65:24 | A-N-D-E-R-S-O-N (2) 45:10;77:2 | approved (5) 19:3;21:12;35:5,7; 76:16 | attorneys (2) 62:20,23 |
| action (1) 33:3 | agricultural (2) 21:19;33:10 | anecdotal (1) 39:9 | approximately (6) 11:2;18:1;29:17; 35:4;37:14;49:20 | attracts (1) 39:2 |
| actual (1) 28:6 | Agriculture (28) 3:14,17,21;4:17; 7:4;9:2,6;18:24;19:4, 5;24:3,9,11,15;68:11, 12,21,24;76:16;78:15, 16,22;79:5;80:17,19, 21;81:16;82:14 | anhydrous (1) 28:21 | Aquifer (5) 26:3,16;49:9,10; 52:20 | Auburn (1) 16:11 |
| actuality (1) 27:1 | agri-science (1) 75:2 | animal (13) 4:9;10:5;11:8; 20:20;23:19;24:17; 30:11;31:23;68:12, 21;71:7;78:15;83:10 | area (43) 11:22;13:8,11; 23:11;24:19,24;25:3, 8,13,14,24;26:1,21; 28:22;29:15;30:21; 31:10;32:21;33:10; 36:16;37:4;40:1; 41:15;44:18;47:13; | August (1) 11:24 |
| actually (12) 3:5;19:13;20:1; 26:11;35:18,18; | agronomic (2) 21:13,21 | animals (5) 23:4;24:16;30:16; 48:15;67:12 | area (43) 11:22;13:8,11; 23:11;24:19,24;25:3, 8,13,14,24;26:1,21; 28:22;29:15;30:21; 31:10;32:21;33:10; 36:16;37:4;40:1; 41:15;44:18;47:13; | AutoCAD (1) 20:3 |

| | | | | |
|--|--|--|---|--|
| 53:16;56:5;68:21; 81:19;85:23 average (14) 18:15;31:19,21,22; 32:1,4,15,16,17; 49:18;52:2;53:5,8,10 aware (4) 37:13,18;42:23; 52:12 away (7) 27:7;40:18;42:12; 63:20;64:1;65:22; 74:6 | 54:19 Becks (1) 54:19 become (4) 31:6;68:20;83:10, 11 bedrock (2) 25:16,18 beep (1) 62:18 begin (2) 15:9;39:23 beginning (2) 35:3,3 behalf (11) 3:13,19;6:18,21; 9:10;11:5;62:22,22; 71:11;80:6;85:8 behind (3) 28:20,24;59:19 Behrends (1) 77:10 below (3) 26:12,15;61:15 Ben (1) 54:15 beneath (1) 23:6 beneficial (2) 71:8;78:21 benefits (1) 79:3 best (8) 28:9;44:10;45:2; 50:13;61:5;63:4; 80:14;83:17 better (4) 59:12;75:16,17; 81:11 big (2) 75:2;78:24 bit (5) 16:18;19:17;56:17; 58:15;59:4 blasted (1) 64:13 blow (2) 56:21;75:14 blue (2) 25:9;56:23 Board (19) 4:5,16;7:24;8:9,21; 11:16;12:1,4;13:20, 24;14:15;71:21; 72:12;77:8,10;78:10, 12;85:13,22 board's (1) 14:8 body (1) 79:14 booklet (1) 13:14 boring (4) | 26:9,12,16,17 born (1) 82:8 botch (1) 63:3 both (2) 14:15;23:10 boy (1) 16:23 break (1) 6:7 bridge (1) 47:3 briefly (1) 37:10 bring (2) 64:16;76:11 Bringing (2) 68:18;71:8 brought (2) 36:7;74:11 build (2) 17:7;50:16 building (9) 10:22;19:19;23:3; 25:6;27:6;48:19; 50:22;76:10;81:13 buildings (7) 17:15;35:16;50:22; 76:20,20;77:15;81:2 building's (1) 30:7 buildup (2) 29:23;30:8 Bureau (5) 3:22;67:1;68:10; 71:11;80:16 Bureaus (1) 67:2 Bureau's (1) 3:24 bushels (2) 18:13,14 business (7) 13:20;14:3;17:1,4, 8;46:22;83:6 businesses (1) 67:8 butcher (1) 17:12 buy (1) 16:21 | call (2) 47:17;62:12 called (2) 33:24;62:13 Cambron (4) 63:14,21;65:7;66:1 Cambrons (1) 77:19 came (3) 6:10;72:14;75:4 can (38) 6:4;9:3,21;10:11; 19:23;24:12;25:9,22; 34:7;35:10;38:3,7; 39:7,9;44:14,20; 51:20;56:16;58:23; 59:7,15;60:8;61:13; 64:21;66:10;68:22; 72:16;73:12,15;77:7, 18;78:10,16,23;79:2, 5;83:24;85:15 capacity (5) 11:7,19;17:21; 26:23;27:8 carbonate (3) 25:16,18;26:5 care (6) 18:9;41:18;48:8; 64:19;67:12;71:7 career (1) 82:17 caring (2) 80:13,14 case (2) 27:17;32:10 cash (2) 82:22;83:5 caused (1) 12:5 caves (1) 25:17 ceiling (1) 42:5 cell (1) 3:12 Center (6) 25:5;49:12,13;51:2; 52:13,19 certain (1) 67:14 certainly (1) 10:11 certainty (1) 39:24 certification (2) 20:13;21:3 certified (1) 23:16 certifying (1) 21:4 chairman (1) 8:21 challenges (1) | 83:1 chance (4) 54:1;56:13;77:9; 81:15 changed (2) 6:24;67:6 changing (1) 82:15 character (2) 13:5;24:2 charge (1) 46:6 check (1) 44:16 chemical (3) 39:6;46:14;63:17 chemicals (1) 39:8 Chief (2) 3:22;37:15 children (3) 17:2;74:8;75:19 chosen (1) 36:13 Chris (1) 64:22 Chuck (3) 79:20;80:1;84:13 clarification (1) 61:2 clarity (2) 3:7;61:12 clean (1) 38:13 cleaned (1) 18:5 cleaning (2) 29:24;38:14 clear (1) 63:22 clients (6) 6:18,19;62:20,22, 23,24 close (7) 14:2;28:24;36:8; 40:17,20;52:14;53:15 closed (2) 27:3;86:3 closer (1) 40:24 closer-up (1) 29:3 close-up (1) 29:2 closing (6) 7:3,14;42:17;85:2, 5,6 clothes (3) 64:14,15;76:1 CNMP (2) 21:11,17 college (1) 80:16 |
| B | | | | |
| back (11) 19:23;29:3,6;36:21; 39:12;43:2;47:11; 59:19;74:7;75:14,16 backs (1) 60:5 backup (1) 47:11 bad (4) 64:14,24;73:10; 78:17 bankruptcy (1) 42:12 banks (1) 65:18 BARD (24) 8:15,15;45:23,23; 47:2,5,16;48:3,8,18, 22;55:16,16,22;56:2, 9,11,24;57:15;58:2,9, 13,15;59:2 B-A-R-D (1) 8:15 barn (25) 17:20,21;18:13,17, 22;20:1,4;22:17,19, 24;27:9;28:2;48:4; 64:11;67:22,24;71:7, 23,24;73:10;75:22; 80:9;81:5,7,13 barns (13) 29:22;47:21;50:16; 51:1;71:9,23;72:18, 18;73:11;76:12,13; 78:24;79:10 Based (4) 14:11;23:23;28:5; 51:8 basically (1) 43:16 basis (1) 52:1 batch (1) 18:6 became (2) 9:18;82:20 Beck (1) | | | | |
| | | C | | |
| | | cab (3) 28:15;65:2,4 calcium (1) 81:9 calculations (1) 21:18 calendar (1) 14:4 | | |

| | | | | |
|---|--|--|---|--|
| combined (1) 29:15 | 30:17 | 18:13;51:24;53:11 | 18:11 | cross-section (1) 23:1 |
| coming (3) 8:10;38:15;78:14 | comply (3) 18:23;32:19;68:16 | consumed (1) 53:17 | corner (2) 24:13;60:5 | CROW (3) 8:19,19;77:10 |
| Commencing (2) 3:1;20:23 | comprehensive (6) 21:1,5,7,10;27:24; 30:23 | consumption (6) 51:13;52:2;53:6,7, 12,15 | corporate (2) 65:20;66:1 | C-R-O-W (1) 8:19 |
| comment (3) 12:17;14:3;67:21 | concentrations (1) 30:9 | contact (4) 27:16;28:8;29:1; 61:16 | correspondence (3) 14:19;15:2,4 | cull (1) 17:12 |
| comments (17) 4:12,22;6:13,15,17; 7:3,6,7,14;8:5,8; 14:22;15:8,9;34:7; 71:13;85:12 | concern (1) 36:7 | contacted (2) 35:22,24 | counsel (1) 6:17 | cumulative (2) 49:24;52:20 |
| commercially (1) 81:10 | concerned (3) 49:8,24;51:21 | contacting (1) 85:23 | counties (7) 24:8,10,10,11; 68:14;72:3;81:1 | curiosity (1) 34:15 |
| commissioner (1) 46:5 | concerns (3) 35:20;73:5;75:20 | contain (1) 28:13 | country (1) 75:4 | current (7) 5:2;9:15;10:16; 26:12;27:22;50:23; 81:23 |
| commitment (2) 80:10;82:12 | conclude (1) 7:2 | contained (1) 68:4 | County (55) 3:16;4:5,16;7:24; 8:9,20;11:3,16;12:1, 4;13:20,24;14:8,15; 15:5;16:20;18:18; 19:13,16;24:3,4,13, 14;25:22;26:1;31:16, 18;32:2,12,13;42:20; 45:11,12,14,17;46:5, 5;47:8;67:2,5,22; 68:19;71:8,11,21; 72:11,12;73:21;74:5; 78:15;80:7,19;82:9; 85:13,22 | currently (5) 9:5;12:17;17:8,10; 39:14 |
| commodity (1) 74:20 | concludes (1) 84:22 | containers (1) 48:15 | county's (1) 14:2 | custom (1) 28:12 |
| commonly (1) 28:22 | conclusion (1) 81:12 | containing (2) 25:14,18 | course (2) 23:20;67:6 | cut (4) 52:21;55:1;59:18; 83:24 |
| communicated (1) 46:7 | concrete (8) 10:22,23;22:6,8,13; 27:13,17;42:7 | containment (1) 19:1 | court (9) 5:15;7:10,22;15:12, 14;62:15;63:6;66:18; 85:23 | cycle (2) 18:7;30:3 |
| communication (2) 28:16;77:13 | condemn (1) 78:4 | contaminating (2) 56:15;75:24 | covered (2) 38:11;59:19 | D |
| communities (4) 71:3;72:10;81:3,4 | conducted (3) 4:2,11;26:10 | content (2) 21:21;57:7 | covering (1) 9:21 | daily (4) 18:9;49:17;51:13; 52:1 |
| community (11) 13:10;32:23;33:1,9; 66:3,4;67:20;72:13; 79:1,16;82:12 | confidence (1) 46:21 | continually (2) 60:5,9 | cow (1) 49:15 | dairy (1) 49:15 |
| Companies (4) 16:9,14,19,21 | confine (1) 8:5 | continue (2) 8:6;31:5 | cows (1) 49:17 | damage (1) 26:20 |
| Company (2) 17:10;36:13 | confirm (1) 78:23 | continued (1) 29:11 | create (1) 16:24 | Danielle (1) 82:8 |
| compared (1) 51:1 | consent (1) 64:3 | continuously (1) 28:14 | created (1) 81:2 | Darrell (1) 63:14 |
| comparison (1) 75:12 | consider (4) 8:3;39:5;85:14,16 | contribute (1) 72:9 | criteria (24) 5:7;12:23;13:12; 14:12;19:9,20;20:9, 12;22:1,1,5;23:8,14, 24;24:22;25:13;26:4, 18;27:19;31:11; 32:22;67:17,24;80:8 | data (2) 23:23;28:6 |
| compatibility (1) 23:24 | considered (1) 10:6 | contributing (1) 81:4 | covered (2) 38:11;59:19 | database (1) 44:21 |
| compensation (1) 64:4 | consist (3) 10:20;22:16;32:1 | control (11) 13:7;27:19,24; 29:11;30:23;31:3,4; 38:9,10;41:11,11 | covering (1) 9:21 | date (1) 14:5 |
| complain (1) 74:20 | consistent (4) 22:3;25:2;32:23; 33:8 | controlled (3) 28:1,4;41:3 | cow (1) 49:15 | daughter (3) 74:23;75:1;80:15 |
| complete (6) 11:15;14:18;20:17; 23:12;24:21;85:16 | consists (1) 27:24 | controls (1) 28:13 | create (1) 16:24 | David (6) 15:22;16:2,7;19:10; 35:21;45:10 |
| completed (3) 11:16;12:16;15:1 | constituents (1) 65:24 | cool (1) 75:12 | created (1) 81:2 | day (11) 14:3;18:16;48:10, 14;53:11,14;56:12; 75:21;77:21;79:1,7 |
| completely (2) 41:15;75:18 | Construct (8) 10:18;11:11;14:6, 18;15:2;17:20;20:15, 16 | cooperative (2) 22:10;46:12 | covered (2) 38:11;59:19 | days (11) 13:20;14:4;20:23; 27:1,2;64:11;75:24; 78:6,7,8;82:20 |
| compliance (9) 7:20;11:13,20; 12:18,22;33:5,10; 34:24;46:17 | construction (18) 4:8,18;5:5;8:4; 10:19,21;12:10;14:7; 16:8;19:1,6;25:1; 27:13,15;32:22;42:3; 67:14,21 | Copies (1) 13:12 | covered (2) 38:11;59:19 | dead (3) 48:11,14,16 |
| complicated (1) 10:10 | consultation (1) 12:4 | copy (5) 11:15;13:15;14:21; 85:20,22 | covered (2) 38:11;59:19 | deal (1) 75:2 |
| complied (1) 24:5 | consulting (2) 17:16;19:2 | cord (1) 29:8 | covered (2) 38:11;59:19 | |
| complies (1) | consume (3) | corn (5) 18:14;56:6,7,7;81:5 | covered (2) 38:11;59:19 | |
| | | corn/corn (1) 29:17 | covered (2) 38:11;59:19 | |
| | | corn/soy (1) | covered (2) 38:11;59:19 | |

| | | | | |
|--------------------------|--|---|--|--|
| deals (1) 12:9 | 15:3;18:24;19:4,5; 20:16;21:2,9;23:12, 17;32:6;33:23;34:20; 37:15;45:22;55:15; 64:5;68:3;76:16; 78:22;85:6,8,11,15,16 | 21:17 development (6) 13:11;32:24;33:2,4, 9;68:11 diet (1) 30:11 dietary (1) 30:13 differ (1) 10:12 different (7) 3:3;10:4;46:17,20; 57:10;72:22;79:9 differently (1) 34:19 dig (1) 54:22 diligently (1) 31:2 dimensions (2) 20:5;22:19 directed (2) 7:8;72:15 directing (1) 34:2 direction (3) 20:7;63:20;64:9 directly (2) 29:9;34:21 Director (5) 3:13,20;9:6;66:24; 72:6 disappointed (2) 74:17,19 disappointing (1) 74:22 disc (1) 61:7 discharge (1) 38:12 discourage (1) 74:21 discover (1) 68:3 discs (2) 28:20,24 discuss (1) 7:16 disinfected (1) 18:5 disposal (1) 21:6 disrupted (1) 25:15 disseminating (1) 22:11 distance (2) 11:21,22 distances (3) 23:9;30:18;38:1 District (3) 18:21;66:24;79:13 ditch (1) | 59:20 diverted (1) 27:7 document (1) 22:12 documentation (1) 21:24 dogs (1) 64:16 dollar (1) 64:20 dollars (1) 18:18 done (6) 15:12;35:11;40:4; 43:8,16;57:13 Donna (1) 8:19 door (5) 6:10,11;64:13;65:2, 2 doorstep (1) 73:18 dotted (1) 73:18 double (1) 53:14 Doug (1) 3:21 down (13) 19:14;24:13;36:16; 37:7;38:13;42:18; 52:17;58:10;63:2; 75:7;77:24;79:1,7 drag (3) 29:5;47:20;75:11 drain (1) 77:14 drainage (2) 25:15;77:17 drains (1) 77:14 draw (2) 36:16;37:7 drawing (1) 20:3 dream (1) 80:23 dried (2) 52:14,16 drill (1) 50:14 drilled (7) 36:6;48:18;50:17; 51:11,14;52:13,17 driller (3) 35:19;50:20;54:24 drillers (1) 54:18 driller's (1) 50:15 Drilling (5) 35:24;37:8,12; | 45:10;54:5 drink (1) 18:15 drive (2) 44:16;80:24 drone (1) 75:10 drop (1) 36:8 drought (2) 50:5,5 dry (6) 35:11,18;37:14; 50:7;54:2,11 Duane (2) 53:4,4 DUBY (3) 8:18,18;77:10 D-U-B-Y (1) 8:18 due (2) 13:24;82:6 dug (1) 35:24 duly (8) 16:3;63:11;66:22; 71:19;73:9;74:3;77:3; 80:1 During (7) 5:13;6:13;19:5; 32:8;37:14;62:5; 83:16 dust (5) 29:20;30:1,8;38:13; 39:2 duties (1) 9:7 |
| E | | | | |
| | | E3 (2) 38:23;41:6 E5 (11) 3:8;8:4;29:12; 31:14;40:11,13,16; 65:11,12,16,17 E6 (1) 3:10 earlier (6) 11:10;20:4;23:11; 62:19;77:19;85:20 early (1) 17:14 Earth (1) 19:22 east (5) 11:2;31:17,20;32:5, 12 economic (4) 13:10;32:24;33:2; 79:3 economies (1) 68:13 | | |

| | | | | |
|--|---|---|--|---|
| <p>educate (1) 23:17</p> <p>education (1) 80:16</p> <p>effect (2) 31:12;64:10</p> <p>efficient (2) 30:12;83:10</p> <p>efficiently (2) 30:7;82:17</p> <p>Effingham (4) 18:8,11;39:16;46:2</p> <p>effort (1) 85:11</p> <p>eight (7) 3:9;12:22;14:12; 19:9,20;20:8;46:9</p> <p>either (2) 6:23;24:8</p> <p>elapsed (1) 6:6</p> <p>Elected (1) 64:4</p> <p>electrostatic (5) 38:20,22;39:2; 63:16;77:23</p> <p>Elliott (1) 64:22</p> <p>Elliotts (1) 77:20</p> <p>Elliott's (1) 65:6</p> <p>else (2) 7:1;84:14</p> <p>email (2) 36:1;37:11</p> <p>emergency (1) 28:15</p> <p>emotion (1) 77:6</p> <p>employees (1) 17:19</p> <p>emptied (1) 18:5</p> <p>encourage (1) 68:15</p> <p>end (12) 29:3,6;42:9;52:23; 55:5;60:4,9,10,15,18; 61:3;62:18</p> <p>ending (1) 56:15</p> <p>engineer (2) 46:5;47:9</p> <p>engineered (1) 19:2</p> <p>engineering (2) 12:12;19:8</p> <p>Engineers (3) 11:5;19:3,12</p> <p>enhancement (1) 68:15</p> <p>enjoy (1)</p> | <p>72:2</p> <p>enough (6) 50:1,2,21;56:5; 78:23;79:13</p> <p>ensure (8) 4:10,12,19;29:22; 30:6;36:9,22;71:6</p> <p>ensures (1) 67:16</p> <p>enter (7) 6:1;33:18;37:11; 62:3;66:7;83:24;84:5</p> <p>entered (10) 4:13;6:4;14:24; 15:5;62:6;66:13;84:9, 11,20,23</p> <p>entire (1) 24:7</p> <p>entitled (1) 82:11</p> <p>entrance (1) 62:10</p> <p>entry (2) 14:20;82:19</p> <p>environment (4) 22:3;67:12;71:6; 83:12</p> <p>Environmental (8) 3:23;11:5;19:11; 26:20;44:2;65:13; 68:1;83:18</p> <p>environmentally (2) 21:14;24:24</p> <p>EPA (1) 57:20</p> <p>equate (1) 24:17</p> <p>equates (1) 32:17</p> <p>equipment (3) 28:12,14;82:15</p> <p>equitably (1) 10:13</p> <p>Equity (4) 18:8;39:16;83:4,5</p> <p>Equity's (1) 18:12</p> <p>era (1) 82:19</p> <p>erode (1) 41:16</p> <p>erosion (3) 41:3,12,18</p> <p>essentially (1) 53:14</p> <p>establish (1) 83:5</p> <p>established (4) 24:5;30:18;33:6; 82:7</p> <p>estate (3) 39:22;40:6;65:10</p> <p>evaluate (1)</p> | <p>78:1</p> <p>evaluation (1) 85:17</p> <p>even (7) 40:2,4,18;44:17; 47:6;54:20;65:5</p> <p>evening (12) 3:2;4:10,21;7:16; 8:9;9:3;12:20;16:6; 66:23;71:20;72:15; 85:18</p> <p>evening's (2) 13:2,19</p> <p>events (1) 72:2</p> <p>everybody (2) 52:18;79:18</p> <p>everybody's (2) 52:15,16</p> <p>everyone (3) 3:11;43:3;74:4</p> <p>evolved (1) 67:8</p> <p>exact (1) 46:15</p> <p>exactly (2) 22:20;44:18</p> <p>exam (1) 23:21</p> <p>example (2) 28:18;29:4</p> <p>examples (1) 72:16</p> <p>exceeded (2) 30:20,21</p> <p>exceeding (1) 46:24</p> <p>exceeds (2) 20:20;30:17</p> <p>excess (4) 27:2;30:15;51:12, 23</p> <p>Excited (1) 19:12</p> <p>exciting (1) 74:15</p> <p>excreted (1) 30:15</p> <p>executive (1) 72:6</p> <p>exhaust (1) 38:11</p> <p>exhibit (15) 14:20,23;15:1,6; 33:19;37:12;66:9,13, 13;84:2,5,9,12,20,23</p> <p>existence (1) 76:14</p> <p>existing (8) 7:17,20;10:8;13:8; 31:12;32:23;33:8; 82:24</p> <p>expand (1)</p> | <p>82:24</p> <p>expanding (1) 68:22</p> <p>expansion (1) 10:7</p> <p>expect (2) 41:24;79:18</p> <p>expected (2) 51:12;52:2</p> <p>expense (1) 51:22</p> <p>expensive (1) 63:18</p> <p>experience (3) 78:17,18;80:5</p> <p>expert (2) 39:22;40:5</p> <p>explain (7) 4:20;49:21;50:3,6; 59:4,8,11</p> <p>explanation (2) 20:11;50:13</p> <p>explore (1) 83:1</p> <p>expressed (1) 10:5</p> <p>extends (1) 82:17</p> | <p>61:14</p> <p>familiar (1) 54:22</p> <p>families (5) 17:9;71:2;72:7; 80:23;82:10</p> <p>family (9) 16:19;80:9,12,20; 81:13,14,18;82:12; 84:6</p> <p>family-owned (1) 17:8</p> <p>fans (5) 29:24;30:6,7;38:12, 13</p> <p>far (3) 45:4;48:9;74:8</p> <p>farm (52) 17:9;19:18;20:20, 24;21:2,5,7;22:16; 23:15,22;24:22; 27:11,23;28:6;29:12, 16,19;30:2,6,11,15, 17,23;31:2,4,16,18, 22;32:3,12,14,15,19, 23;33:8,11;49:15,16; 65:11;66:1;67:1,2; 68:10,22;71:11;74:9; 77:5,9;78:8;80:15; 81:7;83:2</p> <p>farmer (8) 43:17;52:13;64:6; 66:2;67:3,4;74:7; 82:24</p> <p>farmers (6) 68:22;71:1;72:17; 74:20;79:7;82:16</p> <p>farmer's (1) 82:17</p> <p>farming (3) 82:9,18,20</p> <p>farmland (1) 41:4</p> <p>Farms (21) 16:15;23:19;37:4; 42:20,22;43:16;46:2; 54:7;65:20;67:6,9,15, 16;68:12,16;71:3; 72:21,24;74:18;78:9; 83:21</p> <p>farther (1) 29:2</p> <p>fashion (2) 4:11;21:15</p> <p>father (1) 16:23</p> <p>favor (2) 64:6;81:12</p> <p>Fear (1) 77:7</p> <p>features (1) 25:17</p> <p>fed (1)</p> |
| F | | | | |
| <p>Facilities (29) 4:3,24;5:8;9:9,15, 17;10:4,9;12:9,24; 17:14;20:20;22:4; 30:19;33:7,13;38:5; 40:20,23;41:8,10; 42:2,17;46:17;48:13; 49:14;51:22;67:13; 83:20</p> <p>facility (60) 3:9,10;4:9,19;5:11; 7:3,7,9,19;8:1,5;9:22, 23;10:1,6,7,7,11,19, 24;11:8,20;12:11,14; 13:4,5,8,9,23;15:9; 17:22;18:4;29:20; 30:5,18;31:8;33:20, 22;34:10;36:6,12,15; 37:2;38:7,14,23; 40:17;41:20,23;42:1, 12;45:22;48:10;52:3; 55:14;65:12;73:14; 83:8;85:1,4</p> <p>facility's (2) 9:13;12:22</p> <p>fair (1) 79:17</p> <p>fairly (1) 10:13</p> <p>fall (1) 81:23</p> <p>falls (1)</p> | | | | |

| | | | | |
|--|---|---|--|--|
| 18:11 feed (7) 18:12;28:2;30:13; 31:23;46:1,7,14 feeder (1) 17:15 feeding (1) 83:14 feel (2) 81:14;82:10 feet (24) 10:21;11:21,23; 18:22,23;20:5,5; 24:18,20;25:19;26:5, 6,8,14;30:20,21;44:4, 4;50:8,8;65:15,16,17; 75:22 felt (1) 83:17 FEMA (1) 25:5 fence (2) 38:22;39:2 fences (1) 38:20 fencing (1) 63:16 fertilizer (3) 46:14;58:19;81:10 few (6) 9:13;34:14;65:20; 67:7;75:23;80:12 field (7) 29:8;41:16;57:21, 23,24;75:11;79:8 fields (10) 28:20;47:18;48:2; 56:20;57:4,10,12; 58:3,6,7 fifth (2) 67:3;74:9 figure (2) 53:10;57:6 figures (1) 32:5 file (2) 14:19;21:7 filed (1) 20:16 filled (1) 45:11 filter (1) 59:6 final (2) 27:5;76:17 Finalist (1) 75:2 Finally (1) 13:18 financial (3) 10:1;42:19,21 financially (1) 54:10 | find (4) 51:19;56:19;74:22; 76:3 Findlay (5) 35:24;37:8,12;54:5, 20 fine (2) 36:4;42:8 finished (1) 45:6 finishing (9) 10:22;16:7;17:15; 22:17,19;38:23;51:1; 63:15;76:13 fire (1) 37:15 firm (1) 19:8 first (10) 3:7;4:22;7:6;16:6; 19:14;34:15;42:16; 63:4;64:18;71:20 fishing (1) 76:18 fits (1) 35:7 five (4) 9:21;17:2;57:13,13 flip (1) 76:14 Flood (1) 25:5 floodplain (3) 24:23;25:7,10 floodplains (1) 13:6 floor (2) 23:5;29:23 flow (3) 36:10,14;83:5 flows (1) 31:13 focus (1) 17:6 folks (2) 54:16;78:11 follow (4) 60:11;61:10;79:10; 83:18 followed (1) 13:18 following (10) 4:22;5:3,4,22;6:5,8; 7:13;13:1;21:17; 28:13 follows (1) 13:19 follow-up (3) 52:22,24;53:21 food (3) 67:11;71:2;76:9 foot (9) 10:21,23;23:5;26:8, | 12,13,15,16;37:20 footage (1) 75:9 Ford-Iroquois (2) 67:1;80:3 forever (1) 54:20 forgot (1) 57:18 form (2) 13:14;21:3 formal (3) 10:17;12:11;14:20 formulated (1) 30:12 forth (3) 25:1;36:22;68:7 forward (3) 17:16;33:15;85:12 forwarded (1) 11:15 found (1) 26:16 four (4) 46:11;53:12;56:12; 75:3 four-tenths (2) 40:17;65:12 fourth (2) 17:4;74:6 fractions (1) 51:2 fractured (1) 26:5 Frank (4) 11:4;19:3,8,11 Freeport (1) 65:19 fresh (2) 27:6,9 front (2) 62:9;75:10 fulfill (1) 37:1 full (1) 64:10 full-fledged (1) 72:20 fun (1) 75:22 furrow (2) 28:24;29:5 further (1) 12:3 future (8) 36:6;68:20;71:10; 80:17;81:14,16,16; 85:17 | gallon (2) 52:9;53:11 gallons (5) 18:16;36:24;49:20; 52:6;53:13 Gary (1) 16:23 gather (1) 54:16 gating (1) 42:7 general (3) 13:1;22:21;50:24 generally (2) 9:21;25:19 generate (1) 83:5 generation (4) 17:5;67:3;74:6,9 generations (3) 67:11;68:20;71:10 geological (1) 36:13 gets (4) 43:17;64:13,16; 65:3 given (6) 5:5,12;6:16,18; 7:12;27:21 gives (1) 42:4 goal (4) 21:10,16;25:2;59:1 Gocken (12) 79:21,22,22;80:1,2; 81:21;82:1,4;84:3,7, 10,13 G-O-C-K-E-N (1) 79:22 God (1) 73:17 goes (3) 35:11;49:10;54:11 Goetsch (10) 3:20;4:23;5:4,9;1,3, 5;15:7;34:15,18;85:7 Good (16) 9:3;16:6;39:21; 46:3;51:20;56:19; 58:20;66:23;71:14, 20;74:14;77:11,12; 78:17,19;80:20 goods (2) 46:20;79:6 Google (1) 19:22 government (1) 33:3 governs (2) 67:14;83:20 grab (1) 58:23 grade (2) | 27:5,14 grain (2) 67:3;83:7 grandfather (1) 16:22 graphic (1) 23:1 grass (2) 41:6,7 gravel (2) 26:7,7 great (4) 8:12;74:10,11;76:7 greater (1) 11:9 greatly (1) 8:23 greedy (2) 64:6;66:1 greenish (1) 24:9 grew (1) 19:13 grooves (1) 59:18 gross (1) 46:1 ground (15) 18:10;26:14;28:23; 38:12,17;43:11,17; 56:8;58:23;59:5,9,10, 19;75:15,18 group (1) 65:18 groups (1) 38:14 grow (2) 81:6;83:5 growing (4) 80:11,14;83:2,14 grown (2) 21:14;67:9 growth (5) 13:10;32:24;33:2; 68:15;74:16 guarantee (2) 54:10,11 guarantees (2) 42:20,21 guess (3) 34:18;35:14;40:8 guidance (1) 22:8 guidelines (3) 52:11;73:16,17 Gulf (1) 75:7 guys (1) 59:11 |
| | | | | H |
| | | | G | |
| | | gained (1) 78:23 | | HAAG (9) |

| | | | | |
|---|---|---|--|---|
| 59:3,3;74:1,2,2,3,4, 5;76:24 H-A-A-G (2) 59:3;74:2 Hailey (2) 17:3;80:15 half (7) 18:16;24:20;36:9; 48:6;49:12,14;53:11 half-hour (1) 52:10 half-mile (1) 66:4 hand (6) 13:16;16:1;33:24; 63:8;66:21;79:24 handbook (1) 22:8 handling (3) 12:10,14;23:18 happen (4) 35:15;56:23,24; 80:23 happens (2) 35:10;41:13 hard (3) 71:1;73:22;76:3 HARRISON (21) 15:16,17;16:2; 39:15,17,21;40:5; 46:3;47:4,8;51:3,7,10, 10;53:9,24;58:17; 59:13;61:7;71:15,16 H-A-R-R-I-S-O-N (1) 15:17 harvest (1) 17:13 hatched (1) 26:2 hatching (1) 25:9 hate (2) 52:21;55:1 hauling (2) 46:1;47:1 Hayden (1) 17:2 head (1) 11:9 healthy (1) 80:11 hear (6) 9:3,12;15:8;62:18; 74:12,19 HEARING (56) 3:2,18;14:17,24; 15:18,21,24;16:4,10; 33:16;35:22;36:4; 37:10;43:1,7,22;45:7, 21;48:24;49:3;51:9; 52:21;53:2,18,22; 55:1,4,7,11;59:22,24; 60:24;61:22;63:12; | 66:6,9,12,20;71:14, 17;73:6,24;76:22; 77:1;79:20,23;81:20, 22;82:2;83:23;84:4,8, 11,19;85:4,19 hearings (2) 19:15;72:3 held (1) 4:4 Hello (1) 74:4 help (9) 35:19;39:7;63:17; 64:5;71:9;81:2,5,7; 83:10 helping (1) 36:23 hereby (1) 86:3 Here's (2) 19:22;58:17 herself (1) 80:18 Highway (1) 32:13 historically (1) 21:19 hit (1) 36:12 hog (11) 17:12;34:16;36:6; 42:22;63:15,23; 64:18;65:4,20;66:1; 78:8 hogs (3) 48:4;49:19;63:16 hold (1) 67:10 holding (2) 10:24;42:18 home (7) 19:16;64:1,8;65:6, 7;76:2;85:18 homes (7) 39:19;40:20,24; 65:21;66:3,5;67:7 homestead (2) 44:17,18 honestly (1) 39:23 hope (7) 65:10;77:11;78:10, 16,21,22;79:1 Horace (1) 18:12 hospitality (1) 8:3 hour (1) 52:10 hours (1) 36:9 house (6) 23:4;40:17;49:13; | 51:17;64:17;65:8 houses (1) 38:3 houses' (1) 40:1 hundred (4) 44:4;46:22;65:15; 75:22 hung (1) 75:9 hydrologist (1) 50:13 I identified (1) 33:3 Illinois (26) 3:14,17,21;9:1,6; 11:3;16:13;18:12,24; 19:4,4;24:8;25:22; 32:6;46:20;64:4; 65:19;67:1;68:10,13, 16,19;72:5,8;81:6; 83:19 immediate (1) 25:10 immediately (1) 48:9 impact (11) 13:3,7,9;31:9;37:5; 40:1;50:23;54:7; 77:21;79:8,9 impacted (1) 79:5 impactful (1) 78:18 impacts (2) 10:3;83:21 implement (4) 20:22;21:1;27:23; 71:4 important (1) 78:13 impossible (1) 82:23 inadequacies (1) 7:17 inch (3) 10:21;41:14;56:22 inches (7) 18:23;20:5;38:17; 55:24;56:10,12;61:15 include (4) 17:12;29:21;68:23; 84:2 included (1) 81:1 includes (2) 21:17;31:23 including (6) 14:6;15:2;17:2; 68:1,11,13 | incompatibility (1) 24:1 incorporate (3) 27:20;31:5;61:18 incorporated (2) 30:11;61:6 incorporates (1) 31:7 incorporating (2) 31:3;75:15 incorporation (1) 21:23 increase (1) 82:16 increased (1) 79:12 Indiana (4) 32:14;49:11,11; 52:13 indicate (1) 34:2 indicated (1) 85:5 indifferent (1) 78:17 individual (1) 58:7 industry (6) 10:14;17:5,11; 68:24;80:5;82:13 information (9) 7:18,23;13:1;14:5, 9;15:10;16:18;39:10; 68:4 informational (9) 3:4,19;4:4;7:21; 9:11;12:2;15:4;85:10; 86:2 initial (1) 8:7 inject (2) 38:16;55:17 injected (6) 28:23;55:22;56:2,7, 9,14 injecting (2) 59:4,9 injection (6) 28:5,7,18;29:5; 30:24;38:16 innovative (2) 27:21;31:8 inputs (1) 83:7 insight (1) 78:23 inspections (3) 19:5;21:9;68:5 inspired (1) 16:24 installed (1) 36:11 integrity (1) | 17:7 intends (2) 20:24;28:6 intensity (1) 30:10 Intent (8) 10:18;11:11;14:6, 18;15:2;20:15,15; 25:2 intention (1) 10:12 interested (1) 68:23 into (37) 4:13;6:1,4;14:20, 24;15:5;17:22;20:12; 27:7,9;28:23;29:9; 33:18;34:24;41:16; 48:15;55:18;56:14; 57:16;58:10;59:5,10; 62:3,6;64:16;65:3,21; 66:13;68:18;73:1; 76:17;81:16;82:19; 84:1,11,20,23 introducing (1) 27:9 invasion (1) 64:2 invest (2) 80:22;81:15 investigate (1) 45:12 investigation (5) 26:10,11;37:3; 44:16;54:6 investment (1) 18:17 invitation (1) 3:15 inviting (1) 8:3 involved (2) 44:22;68:20 involvement (1) 17:4 involving (1) 33:1 Iowa (1) 41:8 Iroquois (25) 3:15;4:5,16;8:8; 11:3,16;12:1;13:24; 15:5;19:13;24:13; 25:22;26:1;67:4; 68:14,19;71:8,11; 72:10;73:20;80:6,18; 82:9;85:13,21 I's (1) 73:18 issue (1) 58:12 issues (2) 25:10;77:17 |
|---|---|---|--|---|

| | | | | |
|---|---|--|--|---|
| J | kind (4) 39:23;51:18;54:23; 81:10 | leave (3) 30:5;47:12;65:4 | 44:2 | looked (3) 52:6,7;77:14 |
| Jack (1) 54:4 | knowledge (1) 44:11 | leaves (1) 65:2 | little (13) 3:3;13:14;19:17; 20:10;29:2;34:19; 52:12;56:16;58:15; 59:4;61:2;65:14;74:7 | looking (2) 38:23;39:3 |
| Jake (9) 15:23;16:3;19:7,10; 38:11;47:11;49:5; 59:3;61:12 | known (3) 25:23;54:19;56:24 | leaving (2) 31:15;59:20 | live (9) 49:2;63:14;72:9; 73:13,13,19;76:5,7,8 | lose (1) 58:21 |
| JAMES (51) 15:20,22,22;16:2,6, 7;35:21,21;36:5; 37:21,24;38:10,21; 39:8;40:10,11,15,21, 23;41:2,5,17,19,21, 24;42:14,23;43:11,15, 20;45:10,15,19; 47:19;48:5,13,21; 53:24;54:4,13;55:20, 24;56:4,10;59:14; 60:7,16,19,22;61:11; 85:3 | L | led (1) 83:1 | livelihood (1) 72:9 | lot (7) 35:23;38:17;49:17; 53:8;56:19;77:12; 79:3 |
| J-A-M-E-S (2) 15:22;35:21 | Laboratory (1) 4:1 | left (1) 25:21 | lives (1) 64:22 | Lucht (4) 18:9;80:9;81:18; 84:6 |
| Jeff (2) 37:8,11 | lady (1) 80:17 | Legal (5) 6:17;35:13;47:9,13; 48:1 | livestock (60) 3:9,10;4:3,9,24;5:8; 7:19;9:9,15,17;10:9, 14,23;11:6;12:8,10, 14,21,24;16:22;17:5; 20:13,19;22:4;23:16, 18,21;27:4,12,16; 28:11;29:12,14; 30:19;31:24;32:19; 33:7,12;35:16;42:17; 67:3,13,15,16;68:12, 16,18,23;71:9;74:8, 16,18,22;76:6;82:9, 13;83:8,12,20,21 | L-U-C-H-T (2) 84:7,8 |
| Jennifer (3) 71:17,18,19 | lagoon (1) 9:24 | less (9) 11:21,22;20:21; 25:19;32:1,3,17;50:8; 65:17 | Livingston (2) 67:2;74:5 | M |
| John (4) 3:13,16;8:13,20 | lagoons (1) 76:15 | letter (1) 63:21 | LLC (1) 42:11 | ma'am (1) 55:17 |
| Johnstone (1) 3:23 | land (11) 21:22;25:14,15,17; 28:1;43:10,14;56:3,5; 74:13;82:22 | level (1) 28:23 | Lloyd (1) 16:22 | machine (2) 29:6,10 |
| Johnstone (1) 3:23 | landlord (1) 77:16 | liaisons (1) 78:11 | LMFA (6) 24:5;26:23;68:1,7, 8;78:23 | MacKenzie (1) 17:3 |
| Joins (1) 27:15 | large (1) 25:14 | life (10) 36:23;41:22,24; 42:4,10;65:23;66:3; 74:19;75:23;76:3 | loaded (1) 47:17 | Mahomet (1) 49:10 |
| July (6) 11:14;20:17;23:12; 24:21;26:10;35:2 | last (15) 5:15;7:10;15:11; 34:1;35:22;43:23; 49:4;62:15;63:3,6; 66:17;75:1,11;76:16, 20 | lifts (1) 60:14 | loading (3) 21:13,21;28:5 | maintain (3) 20:22,24;36:10 |
| Jump (1) 56:16 | later (1) 18:2 | lightish (1) 25:9 | local (6) 18:19;29:14;54:17, 18;66:2;81:4 | maintenance (5) 28:2;29:19,21;30:8, 24 |
| June (3) 10:19;11:12;20:17 | Lauren (1) 17:2 | likelihood (1) 26:20 | Loyd (1) 16:22 | major (1) 9:22 |
| K | Lawrence (1) 9:18 | limit (4) 5:19;34:8;47:3; 49:22 | LMFA (6) 24:5;26:23;68:1,7, 8;78:23 | makes (2) 19:5;81:11 |
| Kankakee (1) 67:2 | law (1) 9:18 | limited (3) 34:4;68:22;82:19 | loaded (1) 47:17 | making (2) 4:17;51:22 |
| karst (2) 25:13,23 | Lawrence (2) 16:20;17:1 | limits (1) 32:20 | loading (3) 21:13,21;28:5 | manage (1) 77:18 |
| karstified (2) 25:16,18 | Lawrence's (1) 17:6 | line (2) 29:5;32:14 | local (6) 18:19;29:14;54:17, 18;66:2;81:4 | managed (1) 71:7 |
| keep (4) 7:15;21:5;34:9; 81:3 | laws (2) 7:18;46:24 | lines (2) 47:21;57:24 | locally (4) 21:14;29:13,13; 49:11 | Management (36) 4:3,24;5:8;9:9,15, 17,23;10:9;12:9,22, 24;13:3;20:13,19,22; 21:1,3,4,6,8,11;22:4; 23:18,21;28:2;30:19; 33:7,12;42:17;57:3; 61:5;67:13;68:2;75:5, 9;83:20 |
| keeping (2) 38:13,13 | laying (1) 48:11 | lingers (1) 64:11 | located (7) 11:1;13:5;19:24; 20:2;23:6;24:12,22 | Manager (4) 3:24;16:8;23:15,16 |
| kid (1) 75:13 | layout (4) 19:19;20:4;22:19, 23 | lining (1) 75:11 | location (13) 19:23;22:2;23:9,9, 11,24;24:1,14;25:5,6, 11;28:3;30:23 | managers (2) 23:18,19 |
| kids (1) 75:20 | leach (2) 59:7,17 | liquid (2) 26:24;55:21 | locations (1) 51:15 | manure (47) 13:2;18:10;21:12, 18,20,21,22;22:6,8; 23:6,18,22;27:4,12, 16;28:1,4,8,10,11,19, 19,22;29:14,23;31:1; 38:16;42:18;43:17; 47:18;55:17;57:8,10; 58:3,19;59:5,6,7; |
| Kim (2) 63:13,22 | leaching (6) 26:21;27:11;56:14; 57:16;58:5,10 | liquidations (1) 17:17 | long (6) 20:6;36:2;42:4; 60:6;73:22;76:20 | long-term (1) 80:10 |
| | Leann (1) 8:18 | liquified (1) 55:18 | look (5) 22:21;23:3;31:5; 33:15;57:10 | |
| | learn (1) 8:1 | list (3) 20:8;44:14;63:2 | | |
| | learned (3) 16:21;75:16;77:12 | L-I-S-T (1) 84:6 | | |
| | least (6) 26:8;29:12;36:22; 48:14;49:12,15 | listed (1) 44:15 | | |
| | | listing (1) 62:11 | | |
| | | lists (1) | | |

| | | |
|--|--|--|
| 60:12;61:6,15;63:17; 68:2;74:23;75:8,10; 81:7 many (6) 34:15;48:9;67:7; 73:13;80:4,24 map (8) 24:7,12;25:4,5,21, 24:31;15;60:11 Marissa (1) 17:3 Mark (6) 49:2;51:7;60:2; 73:6,8,9 market (3) 18:2,4;65:9 marketing (4) 17:1,12,13,15 Martin (3) 37:8,11;54:4 Marvin (7) 8:16;34:13;53:23; 63:4,9,11;77:10 masks (1) 63:18 master's (1) 16:12 material (3) 6:3;26:3,16 materials (2) 25:20;42:3 matter (2) 8:6;64:9 maxes (1) 53:13 maximum (3) 11:7;37:1;52:8 may (14) 5:15,19,19;6:23,24; 7:1,13;9:18;16:5; 33:22;36:7;38:22; 47:21;63:12 maybe (11) 3:3;35:7,10,19; 42:6,6;43:19;49:13; 51:20;59:4;61:12 McGinnis (1) 77:11 meal (1) 18:14 mean (3) 44:13;46:12;58:22 means (1) 65:13 meet (6) 21:13;27:17;33:12; 57:21;67:24;68:6 meeting (35) 3:7,9,19;4:2,4,11, 13,15,21;5:3,10,18, 21;6:7;7:2,22;8:23; 9:11;12:2,5,6;13:2,19, 21;14:8;15:4;33:21; 34:4;55:13;67:19; 78:21;84:22;85:10, 21;86:2 meetings (2) 3:4,5 meets (1) 5:7 Member (1) 77:10 members (9) 4:6;7:24;8:8;67:20; 72:12,13;77:8;78:10, 12 mention (1) 57:18 mentioned (9) 11:10;19:21;20:4,9; 23:11;47:15;57:4; 62:19;85:20 merits (1) 7:16 met (5) 14:13;20:14;23:10; 45:17;80:9 method (1) 28:7 methodology (1) 51:19 Mexico (1) 75:7 mic (1) 9:4 microphone (1) 62:14 MidWest (2) 22:7,9 midwestern (1) 36:14 might (2) 51:6;73:10 Mike (5) 59:3;73:24;74:2,3,5 mile (12) 24:19,20;40:18,18; 49:13;63:14,20; 64:23;65:7,8,12;66:5 miles (5) 11:2;49:13;64:8; 65:6;74:6 Milford (1) 18:21 milk (1) 49:16 milking (1) 49:15 mill (1) 18:12 million (2) 18:18;49:20 mind (4) 6:24;7:15;8:11; 34:9 minimal (2) 31:9;38:1 minimize (4) 26:19;29:20;30:4; 31:12 minimizes (3) 24:1;28:8;83:17 minimizing (2) 28:24;30:8 minimum (1) 52:7 minute (4) 36:24;52:6,10;82:3 minutes (5) 6:16,19;62:17,18, 22 mitigation (1) 68:2 modified (1) 10:7 money (3) 79:15;80:22,22 monitored (1) 28:14 months (4) 18:2;32:8;46:10,11 more (24) 17:9;20:10;26:5,6, 8;36:11;42:1;43:5,8, 21,23;49:18;50:20; 53:8;68:18;79:2,16; 80:23;81:7,11;82:16, 21;83:10,11 morning (1) 64:14 mortality (1) 48:3 most (4) 30:12;39:8;53:12; 76:2 mostly (2) 50:14;65:21 move (8) 8:7;20:11;43:8,23; 64:1;65:22;73:1;75:6 Moving (1) 22:1 much (20) 3:15;8:2,10,22; 33:17;37:22;39:18; 43:12,13;47:16; 49:16;53:6;56:21; 65:10,22,24;75:16,22; 76:24;79:19 multi-generation (1) 72:24 multiple (1) 6:18 myself (3) 26:11;81:1;82:8 | 3:16;5:14,15;7:9, 10;8:11,13;9:4;15:11, 11,14,16;16:7;19:10; 34:1,2;49:4;51:9; 60:1;62:14,15;63:4,6, 6;66:17,17;74:4 names (2) 6:20;62:12 near (1) 72:21 nearby (2) 44:17;65:21 nearly (1) 72:7 necessarily (1) 57:22 need (15) 9:4;13:17;34:9,23; 40:9;41:8;43:23; 50:10,10,15;76:8; 78:18;80:11,23;82:1 needed (1) 52:8 needs (2) 21:13;83:11 neighbor (1) 38:5 neighbors (7) 36:8;38:2;49:24; 64:19;67:19;71:2; 74:21 new (12) 4:8;10:6;18:6,17; 32:23;52:18;67:22; 71:4,8;76:13;82:15, 19 newer (1) 68:22 newest (1) 83:9 newspapers (2) 11:18;12:7 next (9) 22:18;25:12;26:3; 66:15;68:9;71:15; 73:13,21;78:14 Nic (4) 45:9;61:1;77:1,3 N-I-C (1) 77:2 NIMS (31) 15:23,23;16:3;19:7, 10,11;35:10,13;37:9, 13,19;42:15;44:1,5, 10,13;45:2,5;49:5,7; 50:12;51:4;56:16; 57:1,17;58:6,11,14; 59:11;61:17,20 N-I-M-S (1) 15:23 nine (1) 49:12 nine-tenths (2) | 63:14;65:7 nitrates (1) 75:6 nitrogen (2) 28:5;81:8 nonbinding (1) 13:22 none (1) 53:20 norm (1) 50:9 North (6) 31:16,18;32:2,12, 13;65:7 northeast (3) 63:15;64:23;65:6 northern (1) 65:19 north-south (1) 20:6 northwest (1) 67:4 northwestern (1) 49:11 Notice (12) 10:17;11:11,15,17; 12:1,5;14:6,18;15:1; 20:14,15;25:1 notices (1) 15:3 notify (1) 14:15 November (1) 14:4 nowadays (1) 75:17 nowhere (1) 56:22 number (6) 5:16;46:4,16;48:6; 52:8;54:24 numbers (1) 52:8 numerous (1) 31:3 nutrient (14) 20:22;21:1,3,4,6,7, 10,13,21;57:3,5,6,9; 75:5 nutrients (4) 30:13,15;58:22; 59:7 nutrition (1) 30:24 |
| | | N |
| | | name (27) |
| | | O |
| | | objective (1) 67:17 obtained (2) 25:4;32:6 obvious (1) 40:7 |

| | | | | |
|--|---|--|---|--|
| <p>Obviously (8) 26:1;44:8,15;46:18; 48:19;49:17;50:15; 56:21</p> <p>occupied (2) 23:10;24:18</p> <p>occurs (1) 64:24</p> <p>o'clock (1) 3:9</p> <p>October (1) 14:1</p> <p>odor (17) 13:7;27:19,21,24; 29:11;30:9,9,23;31:3, 3,9;37:24;38:3,9,10, 18;68:2</p> <p>odor-causing (1) 30:4</p> <p>odors (3) 30:14;39:13;83:17</p> <p>off (9) 34:15;50:14;52:22; 55:2;58:8;60:4,14,17; 83:24</p> <p>offered (1) 62:8</p> <p>offers (1) 17:10</p> <p>OFFICE (1) 43:1</p> <p>OFFICER (53) 3:2,18;14:17,24; 15:18,21,24;16:4; 33:16;36:4;37:10; 43:7,22;45:7,21; 48:24;49:3;51:9; 52:21;53:2,18,22; 55:1,4,7,11;59:22,24; 60:24;61:22;63:12; 66:6,9,12,20;71:14, 17;73:6,24;76:22; 77:1;79:20,23;81:20, 22;82:2;83:23;84:4,8, 11,19;85:4,19</p> <p>official (1) 12:1</p> <p>officials (2) 15:5;64:4</p> <p>often (1) 38:4</p> <p>old (3) 44:7,18;76:19</p> <p>oldest (1) 80:15</p> <p>Onarga (1) 19:14</p> <p>Once (5) 14:13;18:1;48:14, 17;73:2</p> <p>one (47) 3:6,6;6:11;9:7,7; 10:21;13:16,17;</p> | <p>15:19;18:16;19:15, 20;20:10;22:16;29:7; 33:4;36:9,17,19,21; 38:5;39:11,13;40:8, 14;43:21,22,23;49:10, 12;50:12;52:19; 54:24;57:12;64:7; 71:3,23;72:10,14; 73:10;75:3,8;76:17; 79:9;82:2;84:3,10</p> <p>one's (1) 65:5</p> <p>online (1) 25:4</p> <p>only (13) 15:18;34:4,8;36:17, 19,21;39:9;40:11; 43:5;58:17;59:6; 64:20;66:5</p> <p>on-site (1) 28:6</p> <p>open (5) 5:9;33:21;64:12; 65:2,3</p> <p>operate (2) 30:7;31:9</p> <p>operating (1) 67:15</p> <p>operation (12) 20:23;22:2;23:15, 22;26:19;33:4;34:16; 39:20;63:15;72:24; 83:1,7</p> <p>operations (3) 82:19,20;83:12</p> <p>operator (2) 9:24;26:18</p> <p>opinion (3) 37:22;40:2;79:14</p> <p>opportunity (19) 4:6;5:6,12;7:23; 19:15;33:14;34:23; 43:3;52:23;55:5,12; 62:21;67:20;68:20; 71:12;73:3,4;83:3; 84:18</p> <p>option (1) 32:10</p> <p>oral (23) 4:7;5:17,24;6:3,5,9, 13,14,15,23;7:11; 34:7;55:12;62:2,5,6, 10,12;63:2;66:15; 84:15,21,22</p> <p>order (1) 4:19</p> <p>orderly (3) 4:11,20;17:16</p> <p>organization (1) 68:14</p> <p>oriented (1) 20:6</p> <p>originally (1)</p> | <p>9:18</p> <p>originating (1) 29:20</p> <p>others (3) 78:7;81:14;85:22</p> <p>otherwise (2) 24:23;73:17</p> <p>ourselves (1) 54:17</p> <p>out (27) 21:12;34:15;44:17; 45:11;46:8,11,23; 47:18;50:7;51:14; 52:3;53:13;55:19,20; 56:22,23;57:6,13; 58:20;59:6;71:23,24; 75:10,14;77:9,11; 78:6</p> <p>outbuildings (1) 64:12</p> <p>outlined (1) 67:23</p> <p>outlining (1) 5:2</p> <p>outside (3) 22:22;63:19;65:1</p> <p>over (17) 6:11;8:24;17:18; 18:1;19:9,20,24; 23:19;24:16;35:6; 46:13;52:1;56:2,12; 64:1;66:10;67:6</p> <p>overall (2) 30:14;31:2</p> <p>overlain (1) 25:19</p> <p>overview (2) 4:23;19:18</p> <p>overwhelm (1) 77:8</p> <p>Owens (1) 3:22</p> <p>own (3) 16:24;18:8;43:11</p> <p>owner (1) 26:18</p> <p>owners (2) 14:9;65:22</p> <p>owns (2) 41:20;43:9</p> | <p>42:11;43:11,16;78:1; 83:3</p> <p>part (20) 3:4;5:24;6:3;22:5; 23:8,14;25:12,12; 26:3;41:6,6;42:15; 56:17;57:2,2;58:24; 75:8;78:24;80:18; 84:1</p> <p>participation (1) 85:9</p> <p>particles (2) 30:5;39:2</p> <p>particular (8) 5:1;7:19;20:24; 22:16;25:23;27:1; 32:18;34:10</p> <p>partners (1) 81:13</p> <p>parts (1) 42:10</p> <p>party (1) 65:1</p> <p>pass (3) 6:24;23:20;71:16</p> <p>passed (1) 9:18</p> <p>passion (2) 80:13,21</p> <p>past (5) 3:5;16:13;82:18,21; 83:13</p> <p>patterns (3) 13:8;31:11,12</p> <p>paying (3) 79:5,17;81:3</p> <p>peer-reviewed (1) 22:11</p> <p>pen (1) 22:23</p> <p>penetrate (1) 65:5</p> <p>people (12) 5:16;6:12,15;7:12; 62:11;73:1,13;76:4,7; 79:4;80:24;81:3</p> <p>per (5) 18:16;29:13;36:18, 24;53:14</p> <p>perceived (1) 7:17</p> <p>percent (8) 32:1,4,17;35:6,6; 36:10;48:7;50:7</p> <p>period (4) 14:3;18:1;53:13; 56:12</p> <p>permeability (1) 27:18</p> <p>permit (3) 45:11,12,14</p> <p>permits (2) 34:16;45:16</p> | <p>permitting (1) 35:16</p> <p>persists (1) 64:10</p> <p>person (1) 6:16</p> <p>personnel (1) 28:16</p> <p>persons (1) 6:20</p> <p>pertain (1) 34:9</p> <p>Pesticide (1) 4:1</p> <p>phase (8) 5:17,18,20,22;6:13; 55:13;68:9;73:21</p> <p>phases (2) 21:24;30:22</p> <p>phones (1) 3:12</p> <p>phosphorus (2) 28:5;81:9</p> <p>pick (1) 48:16</p> <p>picture (2) 22:18;78:19</p> <p>pig (10) 17:13,15,20;18:9, 22;49:18;53:10,14; 72:17;73:14</p> <p>pigs (17) 17:9,22,22,23;18:2, 6,8,10,12,15;38:14; 50:16;51:24;53:17; 73:11;80:12,14</p> <p>pin (1) 19:24</p> <p>pit (14) 22:7;23:2,6;26:13, 22;27:1,2,7,7;39:7,9, 12;55:19;63:18</p> <p>pits (1) 38:12</p> <p>pivot (4) 49:13;51:2;52:14, 19</p> <p>pivots (1) 49:12</p> <p>place (7) 42:20;46:19,24; 63:23;68:23;72:19; 78:2</p> <p>placed (4) 5:20;6:10;27:15; 59:14</p> <p>plan (24) 20:13,22;21:1,3,4,6, 8,11,24;22:7,9;23:21; 27:24;29:11;30:23; 31:7;40:9;41:16; 48:21,22;57:3,11,17, 18</p> |
| | | P | | |
| | | <p>paid (2) 43:13,14</p> <p>Paragraph (1) 12:23</p> <p>Parks (25) 3:8,10;4:9;8:4; 11:5;16:8,14,19,19, 21,22,23;17:8,10; 28:6;29:12;31:24; 32:19;38:23;41:20;</p> | | |

| | | | | |
|--|--|--|--|--|
| planned (3) 31:2;33:9;57:13 | practice (5) 16:17;30:14;61:5,5,9 | 63:12;68:8 | 67:21,24;68:5;71:3,24;83:8 | 26:12 |
| planning (4) 9:23;13:3;47:20;83:16 | preconstruction (1) 19:6 | proceeding (2) 6:2;7:22 | prospects (1) 68:21 | put (11) 26:13;44:8;47:12;48:15;58:23;60:11;75:17;76:13;78:2,4;85:12 |
| plans (13) 12:10,12,16;13:7;14:7;19:2;22:16;26:19;27:20;57:13;67:23;80:18;82:7 | preference (1) 72:22 | proceedings (1) 8:24 | protect (1) 22:3 | putting (2) 58:3;61:15 |
| plays (1) 68:12 | pregnant (1) 58:16 | process (10) 4:20;5:3;13:18;19:6;59:9;68:8;75:18;78:24;83:16;85:17 | protecting (1) 25:2 | |
| please (14) 3:11;7:9,15;8:5;15:10;33:24;34:1,2,7,8;62:13,16;63:5;66:16 | Premium (1) 16:15 | processing (1) 17:13 | protection (2) 67:12;71:6 | Q |
| pm (3) 3:1,7;86:4 | prepare (2) 20:21,24 | produce (1) 51:12 | protections (1) 68:1 | qualifications (1) 45:18 |
| point (1) 6:6 | prepared (2) 19:2;21:5 | produced (4) 18:11;36:10;52:2;53:16 | protein (1) 80:11 | quality (5) 65:23;66:3;67:11;71:5;83:13 |
| policy (1) 68:15 | prescribed (1) 37:7 | Producer (1) 80:3 | proteins (1) 30:13 | quarter (3) 24:19;40:18;66:5 |
| pond (1) 76:18 | present (5) 4:7;26:8;55:12;62:6;71:12 | Producers (2) 72:6;83:4 | proven (1) 21:19 | quick (3) 19:18;20:8;76:11 |
| ponds (1) 41:9 | presentation (8) 5:9;14:22;15:7;19:21;33:19;38:11;57:5;59:18 | producting (3) 72:7;83:6,13 | provide (12) 4:23;6:13,17;7:23;18:9,19,21;20:34;7;62:11;71:1;84:15,16 | quickly (1) 4:20 |
| populated (5) 11:22;23:11;24:19;30:21;33:6 | presented (1) 67:22 | product (2) 83:6,13 | provided (3) 67:19;68:16;85:21 | quite (2) 10:10;80:12 |
| population (2) 76:9;83:15 | presenting (1) 15:10 | production (6) 16:8,15;30:3;68:18;82:14,16 | providing (1) 6:15 | quote (2) 46:4,15 |
| Pork (7) 64:5;71:5;72:5,7;80:3,5,10 | president (2) 16:20;80:3 | productive (1) 81:11 | provisions (7) 4:23;9:9,14;10:3,10;11:13;21:22 | R |
| portion (2) 34:3;84:22 | pressure (2) 30:2;36:22 | products (1) 47:1 | public (17) 3:4,18;4:6;6:9;7:12,21;8:1,9;11:12;2;15:4;16:10;19:15;34:6;35:22;43:13;85:9;86:2 | rain (5) 41:14;56:13,21;58:21;61:14 |
| Poskin (6) 66:16,19,19,22,23,24 | pretty (3) 40:7;65:22,24 | program (1) 23:16 | publications (1) 22:12 | rainfall (2) 41:10;61:16 |
| P-O-S-K-I-N (1) 66:19 | prevent (3) 27:12;29:24;41:3 | Programs (1) 3:23 | published (2) 11:17;12:6 | rains (1) 56:21 |
| possible (5) 13:7,9;32:8;37:18;64:2 | previous (1) 82:7 | project (14) 5:1,2,5,6;9:16;10:17,20;11:1;35:3;44:23;68:6;75:5,8;78:14 | publishing (2) 22:10,10 | raise (9) 13:16;16:1;17:9;33:24;63:7;66:20;76:6,9;79:24 |
| possibly (1) 34:24 | previously (1) 62:1 | projects (3) 33:1;35:5;79:2 | pull (6) 28:19,20;36:17,19,21,24 | raised (2) 76:12;82:9 |
| posted (6) 32:9,20;47:3,5,10,13 | prices (1) 74:20 | project's (1) 12:13 | pulled (1) 61:3 | raising (3) 74:21;80:6,10 |
| potential (1) 13:3 | pricing (1) 17:16 | proper (4) 26:22;30:24;55:10;71:6 | pump (2) 52:6;60:9 | Randy (4) 66:16,19,22,23 |
| potentially (1) 18:19 | primarily (1) 48:1 | properly (1) 71:7 | pumped (1) 52:9 | Rankin (1) 63:15 |
| pound (1) 73:20 | primary (3) 31:14;32:9;46:9 | property (5) 64:3;65:22;66:2;72:15;74:13 | pumping (2) 37:17;60:14 | rapidly (1) 82:14 |
| pounds (6) 11:9;17:23;18:3;24:16;53:7,11 | prior (2) 16:14,16 | proposal (1) 12:3 | pumps (3) 29:9;36:11,23 | rate (5) 48:4;57:8,12;58:8;79:12 |
| pouring (1) 29:7 | private (1) 16:17 | propose (1) 17:20 | purchased (1) 81:9 | rates (2) 21:13,22 |
| PowerPoint (2) 14:21;15:7 | probably (4) 17:23;42:5;44:19;56:6 | proposed (36) 4:8,18;5:5;7:19;8:1,4;9:12,16;10:6,18,20;11:1,8,19;12:13,21;13:4,5,7,9,22;22:2,6,20;23:15;25:11;26:22;27:5,23;31:14; | purplish (1) 24:11 | rather (1) 29:6 |

| | | | | |
|---|--|---|---|--|
| read (2) 36:2;81:19 | regulations (3) 7:17,21;57:20 | 9:23;10:2,14;12:18; 18:24;19:9;20:14; 22:13,14,15;24:5; 26:14;33:6,11,12; 68:17;83:19 | 17:13 | 22:20,21;32:20; 56:3,8;63:10 |
| ready (1) 73:21 | regulatory (1) 68:17 | | Rockford (1) 65:19 | samples (2) 57:6,8 |
| Real (5) 37:10;39:22;40:5; 65:10;76:11 | Reiner (1) 54:21 | requires (3) 11:20;24:17;26:24 | Roger (4) 8:15;45:23;46:3; 55:16 | sand (2) 26:6,7 |
| realize (2) 76:8;77:6 | Reiners (1) 54:19 | research-based (1) 22:11 | role (2) 16:15;68:13 | sandstone (1) 26:4 |
| really (7) 34:20;39:22;53:24; 54:1;59:1;75:12;78:5 | reinforced (1) 27:14 | residence (2) 23:10;24:18 | roof (1) 42:6 | sanitized (2) 18:5;30:3 |
| reason (4) 34:20;36:15;61:13; 78:20 | reinforcement (1) 22:14 | residential (2) 11:20;30:20 | room (1) 62:11 | satisfied (1) 77:17 |
| reasonable (3) 27:20,20;31:7 | reinvest (1) 79:16 | residents (2) 37:23;49:23 | root (1) 28:23 | saturated (1) 59:10 |
| reasonably (1) 52:14 | related (1) 17:11 | respond (2) 34:23,24 | roots (1) 16:20 | save (1) 36:23 |
| rebar (1) 27:14 | relates (2) 5:1;19:1 | responsibilities (2) 9:7;41:7 | Rosario (1) 3:23 | saw (4) 38:22;41:5,5;77:22 |
| receive (2) 7:18;12:20 | relative (2) 13:22;53:17 | responsibility (1) 10:1 | rotate (1) 56:6 | saying (3) 54:1;57:15;82:5 |
| received (6) 4:12;10:17;11:11, 24;12:11;35:4 | release (2) 27:4,12 | responsible (2) 35:12,14 | rotation (2) 29:18;57:11 | scheduled (2) 12:3,5 |
| recommendation (5) 13:22,23;14:8; 50:15;85:14 | remain (1) 59:15 | responsive (1) 83:11 | roughly (2) 17:23;18:3 | scholarship (1) 80:16 |
| recommended (1) 40:19 | remarks (5) 9:1;33:18;85:2,5,6 | restaurant (1) 54:17 | route (8) 31:15;32:9,11;46:8, 9,10;47:9,11 | School (3) 18:21;75:21;79:4 |
| record (17) 4:13;6:2,4;8:12; 14:20;15:1,6;33:19; 43:13;62:3,6;66:14; 82:22;84:2,12,20,23 | remember (3) 7:9;8:5;62:16 | retention (1) 41:9 | routine (2) 28:1;29:21 | science (1) 39:24 |
| records (2) 21:6,8 | remind (1) 34:3 | retirement (1) 82:18 | row (3) 60:6,10,15 | sciences (1) 83:9 |
| recreation (3) 13:10;32:24;33:2 | rendering (1) 48:16 | revenues (1) 18:19 | rows (3) 60:4,9,18 | scientific (1) 67:16 |
| reddish (1) 24:11 | rental (1) 65:21 | review (3) 12:15;14:5,11 | ruin (1) 76:3 | screen (1) 77:23 |
| reduce (2) 30:9;83:7 | rents (1) 82:22 | reviewed (1) 11:12 | rules (4) 46:19;67:17;79:10; 83:19 | seasonal (1) 32:20 |
| reduces (1) 83:21 | repair (3) 42:6,6;54:12 | rigged (1) 64:5 | run (3) 52:5;58:8;60:5 | second (3) 6:11,12;42:15 |
| reducing (1) 30:15 | repercussions (1) 35:12 | right (28) 8:9;16:1;17:7;25:7, 24;36:1;42:2;43:20, 22;46:12;47:2,4,49;6, 16;58:22;59:1,8,19; 61:8;63:7,20;65:3; 66:21;73:17;76:22; 77:23;79:11,24 | running (5) 46:13,23;47:24; 48:2;72:19 | secondary (3) 32:11;46:10;47:11 |
| reduction (2) 27:21;30:14 | report (2) 44:2,8 | rights (1) 64:3 | runoff (6) 26:21;27:5;41:2; 58:9;61:14,16 | section (5) 4:1,3;12:23;26:9; 64:23 |
| referencing (1) 62:5 | reporter (8) 5:15;7:10;15:12,15; 62:15;63:7;66:18; 85:24 | risers (2) 57:20,24 | rural (3) 33:9;65:18;71:9 | seems (1) 65:5 |
| referred (3) 3:8;62:1,2 | represent (3) 67:1;72:5,7 | risk (2) 54:3,12 | safe (4) 67:11;71:1;80:11; 85:18 | sees (1) 80:17 |
| regarding (7) 4:8,18;9:14;10:16; 12:3,21;13:1 | representatives (4) 5:4,11;9:13;16:1 | road (20) 19:14;31:16,17,18, 20;32:2,12,13,18,20; 44:21;46:5;47:2,14, 23;73:20;77:24;79:1, 7,13 | S | selected (1) 83:16 |
| registered (1) 44:14 | representing (2) 62:20,24 | roads (7) 32:9;40:9;46:6; 47:10,13,24;79:4 | sake (1) 3:7 | self-sufficient (1) 81:8 |
| registration (1) 20:12 | represents (1) 18:17 | roaster (1) | safer (1) 83:10 | sell (2) 16:21;64:1 |
| regular (4) 29:19,21,24;30:8 | request (2) 4:5;14:10 | | safety (2) 25:3;28:13 | selling (1) 65:11 |
| | requesting (1) 12:2 | | sake (1) 3:7 | sense (1) 58:20 |
| | required (3) 20:14;23:20;27:17 | | sale (1) 65:8 | sensitive (2) 13:6;24:24 |
| | requirement (1) 12:8 | | same (6) | sent (2) 4:15;36:1 |
| | requirements (17) | | | separate (1) 3:5 |

| | | | | |
|--|---|---|---|---|
| <p>serve (3) 9:5;16:7;17:5</p> <p>Service (3) 22:9;25:5;48:16</p> <p>Services (5) 3:24;17:10,11,17; 79:6</p> <p>Service's (1) 22:8</p> <p>servicing (1) 3:18</p> <p>session (4) 5:13;34:5,6,8</p> <p>set (3) 25:1;67:24;68:7</p> <p>setback (13) 10:2;11:21,22;23:9; 24:4,18,19;30:18,20, 21;33:5,11;66:4</p> <p>setbacks (6) 21:23;24:16,20; 38:1;57:19;58:1</p> <p>seven (1) 9:20</p> <p>several (2) 17:10;71:22</p> <p>shall (1) 20:21</p> <p>shallow (1) 56:15</p> <p>share (5) 7:23;16:18;78:16, 18;79:17</p> <p>sharing (1) 82:20</p> <p>shed (1) 65:2</p> <p>sheet (8) 6:11,12,14,23; 13:15;66:15;84:21,24</p> <p>sheets (3) 6:10;13:13;62:10</p> <p>shoot (2) 74:24;75:5</p> <p>short (2) 6:7;44:19</p> <p>show (1) 25:8</p> <p>showed (1) 59:17</p> <p>shower (1) 76:1</p> <p>showing (5) 19:22;24:8;25:5; 26:1;80:12</p> <p>shows (5) 22:23;24:7;25:21; 44:21;60:11</p> <p>Shure (2) 8:20,20</p> <p>S-H-U-R-E (1) 8:20</p> <p>shut (4)</p> | <p>52:16;60:4,14,17</p> <p>shutoffs (1) 28:15</p> <p>side (3) 25:21,24;76:14</p> <p>sign (1) 6:14</p> <p>signed (2) 6:22;63:2</p> <p>significant (1) 51:5</p> <p>Sign-in (3) 6:9;13:13;84:24</p> <p>sign-up (3) 62:9;66:15;84:21</p> <p>silent (1) 3:12</p> <p>similar (3) 28:21;29:6;71:24</p> <p>single (1) 13:15</p> <p>sinkholes (1) 25:14</p> <p>sit (1) 52:5</p> <p>site (15) 10:8;22:21;23:23; 26:10,11;31:14; 36:18;41:2;44:16; 45:12;46:9;50:18; 51:12;68:5;77:18</p> <p>sited (1) 67:16</p> <p>sites (3) 48:20;77:20;83:17</p> <p>siting (15) 5:7;12:23;13:23; 14:12;19:9;20:8,12; 22:1;23:8,14,24; 25:12;27:19;67:14; 83:21</p> <p>situation (2) 50:24;72:21</p> <p>situations (2) 10:11;72:23</p> <p>six (1) 18:2</p> <p>six-tenths (1) 65:8</p> <p>size (2) 10:5;67:9</p> <p>sizing (1) 26:23</p> <p>skin (1) 65:5</p> <p>skip (1) 40:13</p> <p>slats (2) 10:22;23:7</p> <p>slatted (2) 23:5;29:23</p> <p>slide (2) 22:18;47:12</p> | <p>slurry (5) 55:18,20,21;56:13; 59:20</p> <p>small (3) 52:15;54:16;66:4</p> <p>smell (13) 37:22;38:7;63:16, 23;64:2,11,13,15,24; 65:3,4;75:20,23</p> <p>SMITH (5) 54:15,15;55:3,6,9</p> <p>S-M-I-T-H (1) 54:15</p> <p>Smithfield (1) 16:16</p> <p>soil (8) 26:9,12;29:15;57:6, 7;75:6,17;81:11</p> <p>solid (2) 27:13;36:12</p> <p>solution (2) 78:6;83:4</p> <p>solvable (1) 78:5</p> <p>somebody (2) 49:21;50:6</p> <p>somebody's (1) 50:3</p> <p>somehow (1) 49:22</p> <p>someone (3) 7:1;64:9;80:4</p> <p>Sometimes (2) 64:14;77:7</p> <p>somewhere (1) 53:10</p> <p>son (1) 65:18</p> <p>soon (3) 64:2,12;65:11</p> <p>sorry (4) 43:21;46:15;51:10; 55:9</p> <p>sort (2) 43:18;72:2</p> <p>sought (1) 51:14</p> <p>sound (1) 21:14</p> <p>source (2) 51:20;58:19</p> <p>south (4) 31:17,20;32:5;65:8</p> <p>southeast (3) 24:13;63:24;65:9</p> <p>southeastern (1) 11:3</p> <p>sow (2) 41:6,7</p> <p>sows (1) 75:23</p> <p>soybean (1) 18:14</p> | <p>soybeans (2) 56:6;81:6</p> <p>spared (1) 51:22</p> <p>speak (5) 6:23;43:4;62:17,21; 80:2</p> <p>speakers (1) 6:22</p> <p>speaking (3) 6:18,21;80:5</p> <p>specific (5) 10:10;13:12;23:23; 33:1;44:23</p> <p>specifically (2) 5:1;68:19</p> <p>specifications (2) 12:13;22:13</p> <p>spell (9) 5:14;7:10;15:11; 34:1;37:15;49:3; 62:14;63:6;66:17</p> <p>spelled (2) 8:14,16</p> <p>spend (1) 79:15</p> <p>spills (2) 26:21,22</p> <p>spoken (1) 46:4</p> <p>spread (1) 60:8</p> <p>Springfield (1) 19:12</p> <p>springs (1) 25:15</p> <p>springtime (1) 47:6</p> <p>Standard (1) 16:15</p> <p>standards (5) 9:22;21:23;25:1; 27:18;68:7</p> <p>standing (2) 8:11;23:4</p> <p>standpoint (1) 35:13</p> <p>Star (1) 75:1</p> <p>start (3) 15:14;18:6;82:4</p> <p>started (3) 3:11;76:12;82:24</p> <p>state (27) 5:14;6:20;7:9; 10:15;15:11;24:7; 25:21;27:22;32:14; 34:1,17;35:17;44:15; 46:13,18,19,21;51:9; 59:24;62:14;63:6; 66:17;67:15,18;72:8, 17;74:18</p> <p>statement (4)</p> | <p>35:18;55:3;81:17, 18</p> <p>statements (1) 55:5</p> <p>states (1) 36:14</p> <p>stating (1) 8:11</p> <p>status (3) 5:2;9:16;10:16</p> <p>statute (1) 40:19</p> <p>statutory (2) 12:18;68:17</p> <p>stay (2) 47:13;65:5</p> <p>stench (2) 64:10,19</p> <p>Stevens (1) 52:17</p> <p>stewardship (1) 83:18</p> <p>STICHNOTH (51) 8:16,16;34:13,13; 35:9;36:3;37:9,13,20; 38:8,19;39:6,15,18; 40:3,7,13,16,22;41:1, 13,19,22;42:9,19,24; 43:5,9,12,18,21;44:1, 6,12;45:1,4,6;53:4,4, 20,23,23;54:9,14; 63:5,9,9,11,13;66:8, 11</p> <p>S-T-I-C-H-N-O-T-H (4) 8:17;34:14;53:5; 63:10</p> <p>still (7) 39:3;42:2;53:15; 64:15;76:12,14;81:23</p> <p>Stockland (11) 11:2;19:24;31:19, 20;32:3,5;37:16; 49:23;50:9;51:18; 52:15</p> <p>stop (1) 54:20</p> <p>stoppage (1) 27:15</p> <p>stopped (1) 37:16</p> <p>storage (7) 22:8;23:6;26:23,24; 27:1,8;56:18</p> <p>storms (2) 56:21,22</p> <p>straight (1) 20:11</p> <p>strategic (1) 31:7</p> <p>strategically (1) 51:14</p> <p>strategy (1) 31:3</p> |
|--|---|---|---|---|

| | | | | |
|--|---|---|--|---|
| <p>stream (1) 56:15</p> <p>stretches (2) 29:8;56:19</p> <p>strong (1) 67:10</p> <p>structure (4) 22:6;23:2;42:7,18</p> <p>studies (1) 36:13</p> <p>study (1) 40:4</p> <p>stuff (3) 57:4,24;61:4</p> <p>subdivisions (1) 72:20</p> <p>subject (2) 8:6;73:20</p> <p>submit (5) 13:21;14:18,21; 21:2;36:5</p> <p>submittal (1) 12:12</p> <p>submitted (4) 11:4;14:5,9;26:19</p> <p>substantive (1) 9:20</p> <p>suggest (2) 37:4;54:7</p> <p>Sullivan (1) 3:13</p> <p>summarize (1) 7:5</p> <p>super (1) 23:2</p> <p>supply (1) 51:6</p> <p>support (3) 78:14,14,15</p> <p>supports (1) 68:10</p> <p>suppose (1) 37:21</p> <p>suppress (1) 39:7</p> <p>sure (15) 13:16;19:23;36:3; 43:3;44:5,6;48:11; 50:12;51:15,23; 58:11;61:20;78:11; 81:20;85:13</p> <p>surface (7) 25:14,17;26:13; 57:19;60:21;61:4,14</p> <p>surfaces (1) 27:16</p> <p>surrounding (12) 13:4;24:2;26:21; 31:10;37:6,22;39:19; 40:1;41:3;54:1,8; 83:22</p> <p>survey (1) 65:13</p> | <p>survive (1) 71:10</p> <p>swear (3) 15:13;62:15;63:8</p> <p>swine (9) 4:9;8:4;10:19,22; 11:9;17:1,11,12;80:6</p> <p>switching (1) 36:21</p> <p>sworn (10) 6:16;7:12;16:3; 63:11;66:22;71:19; 73:9;74:3;77:3;80:1</p> <p>system (8) 27:3,10;29:5;36:17, 20,24;77:22,23</p> <p>systems (3) 23:19;25:16;38:16</p> | <p>43:1,7,22;45:7,21; 48:24;49:3;51:9; 52:21;53:2,18,22; 55:1,4,7,11;59:22,24; 60:24;61:22;63:12; 66:6,9,12,20;71:14, 17;73:6,24;76:22; 77:1;79:20,23;81:20, 22;82:2;83:23;84:4,8, 11,19;85:4,19</p> <p>Templeton (1) 52:13</p> <p>ten (2) 37:14;53:15</p> <p>test (2) 50:17;54:22</p> <p>testify (2) 5:17;62:13</p> <p>testimony (45) 4:7,12;5:17,23,24; 6:1,4,5,8,9,12,13,14, 23;7:11,11,14,12,21; 16:5;33:17;34:6; 52:23;55:13;61:24, 24;62:2,4,5,7,7,10,12; 63:3;66:7,16;67:22; 68:4;77:19;81:23; 84:1,6,13,15,21,22</p> <p>testing (1) 9:24</p> <p>thanks (3) 43:24;45:20;61:21</p> <p>therefore (2) 27:8;82:17</p> <p>thickness (2) 26:5,6</p> <p>thinking (1) 39:14</p> <p>Third (1) 74:8</p> <p>thoroughly (1) 30:2</p> <p>though (3) 40:4,18;84:18</p> <p>thousand (3) 44:4;65:16;79:8</p> <p>three (16) 6:16;9:20;30:22; 31:22;32:16;41:2; 43:9;48:10;50:22; 53:12;56:12;62:16, 18;66:5;73:11;75:19</p> <p>throughout (5) 28:22;35:16;67:18; 72:8;74:17</p> <p>Thus (3) 13:23;30:7;36:23</p> <p>tile (11) 44:4;56:15;57:16, 19,24;58:3,4,10; 65:14;77:14,17</p> <p>timer (1) 62:17</p> | <p>times (9) 9:20;28:17;38:3,6; 48:10;51:12;52:1; 53:16;74:15</p> <p>timing (1) 71:14</p> <p>Tirey (5) 71:17,18,18,19,20</p> <p>T-I-R-E-Y (1) 71:18</p> <p>today (3) 3:16;67:10;79:6</p> <p>today's (3) 13:21;67:6;82:14</p> <p>together (1) 15:13</p> <p>ton (1) 47:3</p> <p>tonight (20) 3:6;7:5,18;8:3,23; 16:10;19:7,13;67:19; 68:4;71:4,22;73:3; 77:5;78:20;80:2,6; 82:5;85:10;86:2</p> <p>tonight's (5) 3:18;4:13;5:20; 14:7;85:21</p> <p>top (3) 61:4;75:3;83:13</p> <p>total (8) 6:19;21:18;31:22; 32:16;37:5;49:9;54:8; 62:21</p> <p>tour (1) 78:8</p> <p>tourism (3) 13:10;32:24;33:2</p> <p>town (4) 52:12,14,15;54:16</p> <p>tractor (2) 28:19;65:2</p> <p>tractors (1) 79:7</p> <p>trade-off (1) 43:19</p> <p>traditional (1) 82:18</p> <p>traffic (10) 13:8;31:11,12,13, 24;32:2,4,18,19,21</p> <p>trailer (1) 17:14</p> <p>training (3) 9:24;23:20;80:4</p> <p>trainings (1) 71:5</p> <p>transcribed (2) 4:14,14</p> <p>transcript (3) 4:15;85:20,23</p> <p>transcripts (1) 14:7</p> <p>transparent (1) 72:4</p> | <p>transportation (6) 17:14;31:15,23,24; 32:7,11</p> <p>transporting (2) 46:13,20</p> <p>travel (1) 32:12</p> <p>traveling (1) 31:16</p> <p>treat (1) 63:17</p> <p>trespassing (1) 44:19</p> <p>trip (1) 85:18</p> <p>trucks (5) 31:22,24;32:16; 46:1,13</p> <p>trying (4) 38:21;58:18,22; 78:1</p> <p>T's (1) 73:19</p> <p>turbines (1) 64:18</p> <p>turn (2) 3:12;8:24</p> <p>turned (2) 61:4;76:17</p> <p>turning (1) 65:21</p> <p>turns (3) 60:3,5,14</p> <p>TWEEDY (18) 49:2,2,5,8;52:4; 53:1;59:23;60:2,2,13, 17,20,23;73:7,8,8,9, 10</p> <p>T-W-E-E-D-Y (2) 49:5;73:8</p> <p>twice (2) 48:14,17</p> <p>two (14) 3:5;13:14;18:1; 36:18,20;42:10;43:5, 7,48;10;50:17;64:8; 66:4;76:15;77:20</p> <p>two-day (1) 74:24</p> <p>types (3) 10:4;29:15;34:16</p> <p>typical (5) 22:19,23;23:4;51:1; 78:8</p> <p>Typically (4) 26:13;56:22;58:11, 13</p> |
| | | T | | |
| | | U | | |
| | | <p>ultimately (1) 35:5</p> | | |

| | | | | |
|---|---|--|---|--|
| <p>umbilical (1) 29:8 unable (1) 12:17 unacceptable (1) 63:23 unbearable (1) 63:24 uncommon (1) 41:15 unconsolidated (1) 25:20 uncontrolled (1) 27:4 under (2) 38:17;81:23 underbuilding (2) 10:23;12:14 underground (2) 25:15;56:1 uniformly (1) 67:17 unit (2) 4:9;25:18 units (5) 10:5;11:8;20:21; 23:19;24:17 University (3) 16:12,12;39:12 university-based (1) 22:9 unknown (1) 77:7 unlike (1) 23:3 up (34) 13:20;18:5;19:13; 25:8;28:24;36:7;39:1; 40:8;46:2;47:12; 48:16;49:10;50:7; 52:16;56:15,22;57:7, 9,11,23;59:19;60:14; 61:3;62:13,17;63:2,5; 72:14,19,20;74:11; 76:11,14;79:7 upgraded (1) 40:10 upgrading (1) 40:9 upon (5) 10:4;28:5;34:1; 51:8;62:13 USA (1) 83:14 usage (7) 37:3;49:9,21;50:1, 4;52:20;54:6 use (7) 9:4;37:5;47:6; 49:17;51:1;54:8; 58:18 used (7) 4:16;36:15;37:7;</p> | <p>42:3;51:19;75:13; 78:2 useful (1) 80:18 using (11) 6:3;38:15,19;39:12; 42:4;47:20;60:3;61:2; 76:12;81:5,8 Usually (3) 48:5,6;64:24 utilization (1) 30:12 utilize (7) 18:10;21:12;28:7; 29:16,19;58:24;83:8 Utilizing (2) 29:14;75:18 V value (4) 40:1;57:9;58:24; 74:13 values (6) 57:5;66:2;67:9; 72:15;74:14;82:23 varies (1) 48:6 various (2) 9:8;10:3 vehicle (2) 32:2,4 vehicles (3) 31:20,21;32:15 vein (2) 36:12,12 ventilation (1) 30:6 Vermilion (1) 16:20 veterinary (1) 16:11 viable (1) 83:4 vicinity (2) 25:11;26:2 video (3) 74:24;75:4,9 view (1) 29:3 visit (2) 77:11,21 visited (3) 38:4;63:13;64:22 visual (1) 29:21 visually (1) 28:14 vital (1) 68:12 VOICE (1) 84:17 volume (1)</p> | <p>21:18 vote (1) 78:13 VP (1) 65:18 W Wade (4) 15:16;16:2;51:10; 71:15 walk (1) 42:12 walked (1) 48:10 walk-throughs (1) 29:22 walkways (1) 29:23 wants (2) 13:15;80:9 Warren (6) 3:20;4:22;9:1,5; 19:20;20:9 wash (2) 17:14;41:15 washed (1) 30:3 waste (7) 9:23;10:23;12:10, 14;20:13;21:6;23:21 water (36) 18:16;27:6,9;36:7, 10,12,14,15,16;37:3, 5,7;49:8,17,20,24; 50:4,15,18,21,24; 51:1,6,13,16,19,20, 23;52:1,20;53:12,16; 54:6,8,23;74:13 waters (1) 57:19 waterstop (2) 22:14;27:14 waterways (2) 57:19,24 way (4) 35:1;43:15;49:23; 54:18 ways (2) 10:4;83:2 wean (1) 18:6 Weaned (2) 17:22,23 weans (1) 17:14 wean-to-finish (1) 17:21 wear (1) 63:18 weather (1) 56:19 websites (1)</p> | <p>44:13 week (8) 18:1;48:17;52:5,6; 53:13;75:1,11;76:17 weekly (8) 31:19,21,22;32:2,4, 15,16,18 weeks (1) 78:14 weigh (2) 17:23;47:17 weight (5) 18:2;32:20;46:1; 47:3;53:10 weights (1) 46:7 welcome (2) 9:10;16:9 wells (22) 35:24;36:6,8,18,19, 20;37:6;44:3,7,14,23; 45:13,16;48:19;50:8, 17;51:11,13;54:2,10, 22;65:15 weren't (3) 54:21;78:8;81:19 West (5) 11:4;19:3,8,11; 31:16 what's (7) 22:20;41:22;47:22; 53:17;61:5;73:21; 79:11 when's (1) 50:1 whole (3) 74:19;75:23;77:24 Who's (1) 35:12 whose (1) 6:20 widely (1) 28:9 wife (2) 17:1;82:8 Wilken (1) 65:11 willing (1) 54:10 willingness (1) 80:21 willy-nilly (1) 46:23 wind (6) 42:20;63:19,24; 64:9,18;65:3 windfall (1) 51:15 wish (5) 5:17;6:12;62:11,13; 78:12 wishing (1) 5:10</p> | <p>within (17) 13:6;20:23;22:12, 23;24:23;26:8,17; 33:4;44:3,4;46:19; 57:17,18;64:8;65:14, 15;68:4 without (3) 25:17;42:13;64:3 won (1) 80:15 wondering (2) 40:16;44:1 word (1) 64:7 words (2) 9:14;58:2 work (8) 39:10,10;64:15; 71:1;72:9;76:2;78:5; 82:16 worked (2) 16:13,14 worker (1) 83:11 works (1) 17:8 world (3) 80:11;83:14,15 worry (1) 56:20 worship (1) 64:20 worth (1) 56:18 written (15) 4:7;5:23,24;6:2,8; 7:11;61:23,24;62:4,7; 66:7,12;84:1,6,12 Y yard (1) 64:11 year (12) 29:13;33:4;35:2; 39:1;46:10,11;50:6; 56:3,3,8,8;75:24 year-round (1) 47:10 years (15) 16:13;35:16;37:14; 42:1,4;46:22;57:13, 14;64:1;67:8;72:20; 76:13,19;80:4,13 year's (1) 56:17 yields (2) 21:19;29:15 young (5) 16:23;80:17,20; 82:23;83:4</p> |
|---|---|--|---|--|

| | | | |
|---|---|---|---|
| | 13,500 (3) 49:19;73:11,14 | 41:14;48:6;49:13,14; 53:13 | 30:21 |
| Z | 15 (4) 6:19;14:4;18:19; 62:21 | 3,000 (1) 18:14 | 60 (3) 20:23;25:19;27:14 |
| zoned (8) 24:2,4,8,12,14;76:5, 6,8 | 150 (3) 17:18;26:24;53:10 | 30 (10) 13:20;14:2;17:9; 36:24;42:1,4;50:8; 52:6,7,9 | 6500 (1) 49:15 |
| zoning (5) 24:3,9,10;33:5,11 | 16th (1) 11:24 | 300 (1) 18:3 | 7 |
| zoomed-in (1) 25:24 | 17 (1) 35:15 | 341 (3) 10:21;18:23;20:5 | 7 (3) 31:11;49:20;84:12 |
| ZUMWALT (2) 8:13,13 | 17th (4) 11:14;20:18;23:13; 24:21 | 35 (1) 76:18 | 7:19 (1) 86:4 |
| Z-U-M-W-A-L-T (1) 8:14 | 18 (2) 14:1;50:8 | 365 (1) 27:2 | 700 (1) 47:2 |
| 0 | 180 (1) 53:7 | 4 | 79.4 (1) 35:5 |
| 0.25 (1) 32:17 | 1900 (1) 72:7 | 8 | |
| 1 | 1996 (1) 9:19 | 4 (8) 24:22;25:12,13; 37:12;41:14;49:13; 56:12,22 | 8 (12) 10:21,23;18:23; 20:5;23:5;26:13; 32:22;38:16;55:24; 56:10;61:15;84:20 |
| 1 (3) 15:1;20:12;22:5 | 19th (3) 10:19;11:12;20:17 | 4,000 (1) 18:14 | 8:00 (1) 3:6 |
| 1,000 (2) 20:20;23:19 | 2 | 4,500 (2) 11:8;24:16 | 80,000 (1) 73:19 |
| 1,050 (1) 31:21 | 2 (7) 15:6;22:1;23:8,8, 14;26:8;48:6 | 40 (2) 57:21,22 | 800 (1) 30:20 |
| 1,080 (1) 29:12 | 2,432 (1) 35:4 | 400 (2) 37:20;65:17 | 880 (5) 31:16,18;32:2,12, 13 |
| 1,225 (2) 31:19;32:15 | 2,640 (2) 11:23;24:19 | 41 (1) 32:13 | 9 |
| 1,320 (2) 11:21;24:18 | 20 (3) 35:6;47:3;50:8 | 450 (1) 29:17 | 9 (2) 18:20;84:23 |
| 1,800 (3) 4:8;11:8;24:17 | 2019 (2) 10:20;14:1 | 4500 (1) 17:21 | 90 (1) 50:7 |
| 1.2 (2) 18:18;65:6 | 21st (1) 9:18 | 5 | |
| 1.4 (1) 18:18 | 22 (2) 46:17;76:13 | 5 (10) 26:4,8,13,15,18; 38:16;55:24;56:10; 66:13;84:2 | |
| 1.75 (1) 11:2 | 23rd (1) 26:11 | 5,000 (1) 20:21 | |
| 10 (1) 26:6 | 25 (3) 32:1;42:4;64:1 | 5:30 (3) 3:1,6,7 | |
| 10,000 (1) 18:20 | 250 (1) 53:7 | 50 (2) 36:10;74:5 | |
| 100,000 (1) 18:13 | 25-year-old (1) 42:2 | 500 (1) 29:17 | |
| 100-year (2) 24:23;25:7 | 280 (1) 18:3 | 55 (2) 11:9;24:16 | |
| 101 (2) 18:22;20:5 | 2870 (3) 31:17,20;32:5 | 5E (1) 28:6 | |
| 108[sic] (1) 10:21 | 29 (1) 32:3 | 6 | |
| 11 (3) 16:13;26:12,16 | 2nd (1) 14:4 | | |
| 12 (5) 4:3;12:23;17:23; 51:12;52:1 | 3 | 6 (5) 26:14;27:19;66:24; 84:5,9 | |
| 120,000 (1) 18:13 | 3 (8) 23:14,24;33:19; | 6,620 (1) | |
| 1200 (1) 75:23 | | | |