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4	ILLINOIS POLLUTION	CONTROL BOARD	
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9	IN THE MATTER OF	)	
10		)	
11	LIVESTOCK WASTE REGULATIONS	) R97-15	
12	35 ILL. ADM. CODE 506	) (Rulemaking - Land)	
13		)	
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17	PROCEEDINGS taken	on Wednesday, January	
18	29, 1997, at the Regency Hotel, 3282 North		
19	Henderson, Galesburg, Illino	is, commencing at	
20	9:07 a.m., before Audrey Loz	uk-Lawless, Hearing	
21	Officer, and Victoria Fickel	, Certified Shorthand	
22	Reporter, Registered Merit R	eporter, and Notary	
23	Public of the County of Rock Island, State of		
24	Illinois.		

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3	A-P	-P-E-A-R-A-N-C-E-S	
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THE HEARING OFFICER: Good morning and welcome. If you'd like to take a seat up front. There is plenty of seats up in the front that are available right now. Sorry for the inconvenience. I know it's a little crowded out there. My name is Audrey Lozuk-Lawless, and I'm the hearing officer in this matter. Today present on behalf of the Board is chairman Claire Manning, Board member Dr. Ronald

Flemal, and Board member Dr. Tanner Girard.

We also have several attorneys here.

Attorneys Ms. Marie Tipsord, and Mr. Chuck Feinen,

and Ms. Cindy Erwin. We also have a member of our

- 14 technical unit here today, Mr. Hiten Soni.
- Welcome to the Board's hearing today.
- 16 This matter is entitled livestock waste --
- 17 Livestock Waste Regulations, 35 Illinois
- 18 Administrative Code, Part 506.
- 19 Today is the third of five hearings the
- 20 Board is holding in this matter. The first was
- 21 held in Jacksonville on the 14th. Then we held
- 22 another hearing two days ago on Monday in DeKalb.
- 23 We will also be having a hearing in Mt. Vernon on
- 24 Friday. And then the final hearing in Champaign on

- 1 Friday, February 7th. If you need maps or
- 2 directions to any of those hearings, if you'd like
- 3 to attend, those are in the back of the room.
- 4 Today's proposal was submitted by the
- 5 Department of Agriculture. And today we will hear
- 6 summaries at the beginning of the hearing from the
- 7 Department of Agriculture, from the Illinois
- 8 Environmental Protection Agency, from the
- 9 Department of Natural Resources, and from the
- 10 Department of Public Health.
- 11 Today's hearing will be conducted
- 12 according to the Board's procedural rules on
- 13 hearings. And any evidence which is relevant and
- 14 not repetitious will be admitted into the record.
- 15 The Board members or attorneys may ask
- 16 questions. Please realize that those questions are

- 17 only to build the complete record and not to show
- 18 any bias or preconceived notions about the proposal
- 19 at all today. Just that they want to build a
- 20 complete record for any board members that are not
- 21 here today to ask those questions.
- 22 Today we will hear testimony from
- 23 approximately eight people who have prefiled
- 24 testimony.

- 1 After the agencies have given their
- 2 summaries. We will move on to those persons who
- 3 have prefiled testimony. They will give their
- 4 testimony. And then I believe there are eight or
- 5 nine people who have also signed up to testify. We
- 6 will then go on to their testimony.
- 7 After each one of those persons has given
- 8 their testimony, anyone in the audience or Board
- 9 members may ask a question of those witnesses.
- 10 Any witnesses that would like to testify,
- 11 I'd like you to know that you will be sworn in by
- 12 the court reporter. And afterwards, you will be
- 13 subject to questions from anyone here today.
- 14 If you'd like to participate in the
- 15 rulemaking without being sworn in and testify at
- 16 today's hearing, we accept public comments on the
- 17 rulemaking until Friday, February 14th, Valentine's
- 18 Day.
- 19 So if you want to submit comments, go

- 20 ahead, file a public comment. Just make sure that
- 21 you mark on the top of your filing that this is 35
- 22 Illinois Administrative Code, 506, Livestock Waste
- 23 Regulations, which has been docketed as R97-15 by
- 24 the Board.

- 1 Okay. Then right now, I'd like to turn
- 2 it over to Dr. Flemal for any opening comment.
- 3 MR. FLEMAL: Thank you. I want to
- 4 welcome you on behalf of the Board to this hearing
- 5 in the livestock waste management matter. It's
- 6 indeed a joy for us to see such a large turnout.
- 7 The participation of people like yourself
- 8 in our rulemaking process is very important to us,
- 9 and we look very much forward to the contributions
- 10 that you can make to this rulemaking.
- 11 Many of you, I trust, are new to the
- 12 Illinois Pollution Control Board, and I want to
- 13 take just a moment to say a little bit about who we
- 14 are and some of the duties that we engage in.
- 15 And specifically, the activity that we
- 16 are engaged in today, that's the rulemaking
- 17 regarding livestock waste.
- We have at the back of the room a number
- 19 of these brochures. I don't know whether we had a
- 20 sufficient supply to go all the way around. But if
- 21 you either have one or can borrow one from a nearby
- 22 neighbor, take just a moment to look through it.

- 23 It describes the general activity that the Illinois
- 24 Pollution Control Board is charged with.

- 1 These include two broad areas of
- 2 activity. One is to resolve contested or disputed
- 3 environmental matters. They may range from things
- 4 like reviewing contested environmental permits to
- 5 siting activities, enforcement activity and the
- 6 like. A description of these general activities is
- 7 included in this blue brochure.
- 8 We also have a second major charge given
- 9 to us by the Illinois Environmental -- or Illinois
- 10 General Assembly. And that's to establish the
- 11 Environmental Control Standards for the state of
- 12 Illinois.
- 13 And it's that activity that we are
- 14 engaged in today. The ultimate product of the
- 15 activity of our rulemaking is a body of law that
- 16 would control, in this particular case, certain
- 17 aspects of how livestock management facilities are
- 18 operated and how activity at those sites are
- 19 conducted.
- 20 The rulemaking proposal involves a series
- 21 of steps. We are simply at one of those steps at
- 22 the moment. The rulemaking has been publicized.
- 23 It's appeared in print in several places, allowing
- 24 people to see what the rule is and come to us at

- 1 this stage to help us look at the potential merits
- 2 of the rule proposal before us.
- We are conducting the hearings at the
- 4 present time to gain input from all people who have
- 5 an interest or perspective on the nature of this
- 6 rulemaking. We gather that information by hearing
- 7 from you at hearings and by receiving from you
- 8 written public comments.
- 9 As the hearing officer has indicated, the
- 10 public comment period, written public comment
- 11 period, will remain open until February 14th. We
- 12 encourage you that if you have something that you
- 13 believe the Board would benefit from in making its
- 14 decision in this matter to avail yourself of that
- 15 public comment period opportunity.
- Once we have the public comment period or
- 17 public comments, plus all of the information we
- 18 gather at the hearing today, the seven Board
- 19 members -- the other four Board members are off
- 20 doing other duties by the way, but they will
- 21 participate in the decision by reviewing all of the
- 22 information. We'll deliberate over the record and
- 23 make a decision as to how this rulemaking is to
- 24 proceed.

- 2 the rule pretty much as proposed, or we may proceed
- 3 by adopting a rule in some modified form. Those
- 4 modifications are dependent upon what in facts we
- 5 gather in our information gathering process here
- 6 today and at the other hearings and the public
- 7 comments.
- 8 That activity, we anticipate, will be
- 9 complete at some time in the middle of March, at
- 10 which time the Board will announce its decision via
- 11 a written opinion. That written opinion will be
- 12 sent to all of the people that are on the service
- 13 and notice list.
- Many of you are already on one or the
- 15 other of those lists. If you are not, there are
- 16 sign-up sheets in the back that you can get your
- 17 name put on. Thereby be -- thereby be noticed of
- 18 what the decision the Board has ultimately made on
- 19 this rule.
- The ultimate decision, as I've noted,
- 21 regarding what the disposition of the proposal
- 22 before us is, depends upon the information that we
- 23 are able to accomplish or to gather. And, again, I
- 24 note specifically that we much appreciate the large

- 1 turnout and the contributions that we receive from
- 2 all of you in helping us make the best possible
- 3 decision in how this rulemaking ultimately turns
- 4 out.

- 5 I think that's it. Thank you.
- 6 MS. MANNING: I'm Claire Manning. I
- 7 just wanted to second Dr. Flemal's welcome to all
- 8 of you. Welcome to all the public. Welcome to all
- 9 the members of the livestock industry. And welcome
- 10 to all of the members to the government that have
- 11 worked so hard so far under this very controversial
- 12 and very tough issue to get us where we are today
- 13 and to get public input in this process.
- 14 I would ask: Is there any state or local
- 15 government officials here this morning that would
- 16 like to identify themselves? I know that you
- 17 represent --
- 18 MR. Jerry Lack. I'm with
- 19 Congressman Evans' office.
- 20 THE HEARING OFFICER: Thank you.
- MS. MANNING: I want you to know
- 22 that your representatives and senators have sent
- 23 word that they are in session in Springfield today,
- 24 so they are not able to be with us today, with

- 1 you. They have all sent their regards and are
- 2 interested as well in this process and have been
- 3 and are interested in everyone's comments, and have
- 4 been watching this process very closely.
- 5 So with those comments, I think we should
- 6 begin and let the testimony in the record start so
- 7 that we can -- we can have a full record.

- 8 THE HEARING OFFICER: Okay. Let
- 9 me -- was there a question in the back?
- MS. SHAW: Identify myself.
- 11 Margaret Shaw (phonetic spelling), city alderman.
- 12 THE HEARING OFFICER: Okay. Thank
- 13 you. Welcome.
- 14 And just to note that Dr. Flemal
- 15 mentioned the notice and service notice. If you
- 16 want to be added to the notice, list your name.
- 17 Not on there, you can go ahead and sign up in the
- 18 back. You'll receive any orders in the matter.
- 19 Receive all the orders, plus any prefiled testimony
- 20 or prefiled questions.
- 21 He mentioned the blue citizens guide to
- 22 the Board. If we did run out and you'd like to get
- 23 one, just see Marie Tipsord any time during any of
- 24 the breaks. Give her your name and address, and

- 1 the Board would be happy to send those out to you.
- 2 And because the court reporter is up in
- 3 the front, I know there is a lot of people, if when
- 4 you are addressing questions to any of the
- 5 witnesses, if you could just raise your hand, I'll
- 6 acknowledge you, and then in a loud and clear
- 7 voice, state your name and the agency that you may
- 8 or -- may represent, and then, you know, you can go
- 9 ahead and give your questions. Just speak slowly.
- 10 Right now, we are going to begin with the

- 11 summaries from the agencies. They will not be
- 12 taking questions yet. They will take questions
- 13 after all the other witnesses.
- Okay. Would you please swear in all the
- 15 witnesses, if you would please.
- 16 (Wherein all four witnesses were
- 17 sworn in by the court reporter, and after replying
- 18 I do, testified as follows:)
- MR. BORUFF: Good morning. My name
- 20 is Chet Boruff, and I am employed by the Illinois
- 21 Department of Agriculture and am deputy director
- 22 for the Division of Natural Resource and Ag
- 23 Industry Regulation, a position I have held since
- 24 entering the Department on July 8th, 1992. As

- 1 deputy director, I am responsible for the program
- 2 areas of the Department dealing with animal health
- 3 and welfare, natural resource protection,
- 4 regulation of the feed, seed and grain industry,
- 5 and the weights and measures program.
- I was raised on a grain and livestock
- 7 farm in Rock Island County, Illinois. I received a
- 8 bachelor's degree in agriculture from Iowa State
- 9 University. And prior to coming to the Illinois
- 10 Department of Agriculture, I have worked in
- 11 agricultural finance, real estate, and -- and
- 12 agricultural supply sales, as well as operating a
- 13 diversified grain and livestock farm.

- 14 At today's hearing, I will be offering a
- 15 summary of the written testimony which the Illinois
- 16 Department of Agriculture entered into evidence
- 17 with the Illinois Pollution Control Board at its
- 18 hearing in Jacksonville, Illinois. At that time,
- 19 two other employees of the Illinois Department of
- 20 Agriculture, Scott Frank and Warren Goetsch, also
- 21 presented testimony relative to the proposed
- 22 rules.
- Mr. Frank and Mr. Goetsch will not be
- 24 providing a summary today, but will be available

- 1 for questioning as the hearing proceeds.
- 2 Illinois has long been recognized as one
- 3 of the leading livestock producing states in the
- 4 nation. Due to its access to abundant feed
- 5 supplies, strong markets, and a well-developed
- 6 infrastructure, the Illinois livestock industry has
- 7 been a major contributor to the state's overall
- 8 economy.
- 9 Livestock production accounts for a
- 10 sizable portion of the state's total gross
- 11 agricultural committee, and several types of
- 12 livestock species are produced in the state.
- 13 The livestock industry is undergoing
- 14 major changes in structure due to economic and
- 15 marketing forces which are -- are not unique to
- 16 Illinois. As a result, it has become fairly common

- 17 for many operations to expand, specialize and
- 18 invest in capital intensive production units in
- 19 recent years.
- The livestock industry also been faced
- 21 with challenges regarding market structure, access
- 22 to capital, a limited supply of trained employees
- 23 and increased regulations. In many cases in
- 24 Illinois, as well as in other states, traditional

- 1 and long established livestock producers have
- 2 chosen to leave the industry rather than to address
- 3 the challenges listed above.
- 4 In an effort to strengthen the industry
- 5 and position Illinois to be a continuing leader in
- 6 livestock production, Governor Edgar convened the
- 7 Livestock Industry Task Force in July of 1995. The
- 8 Livestock Industry Task Force chaired by Becky
- 9 Doyle, director of agriculture, includes
- 10 representatives from the following representatives
- 11 of the livestock industry. There are five pork
- 12 producers, two beef producers, one dairyman, one
- 13 sheep producer, all of whom own and operate their
- 14 own farms, two farm managers, one veterinarian with
- 15 a diversified practice, one grain producer, one
- 16 representative of the meat packing industry, one
- 17 representative of the animal pharmaceutical
- 18 industry. There is a one nutritional consultant,
- 19 one ag economist from the University of Illinois,

- 20 one grain elevator operator with farming interests,
- 21 and finally one diversified farmer who is also a
- 22 local elected official.
- 23 The charge given to the task force was to
- 24 consider those factors affecting the livestock

- 1 industry in the state of Illinois and to make
- 2 recommendations to Governor Edgar on ways that
- 3 Illinois could continue to foster a healthy
- 4 livestock industry.
- 5 The task force has addressed a wide range
- of topics, focusing on areas of economic
- 7 development, marketing, technology transfer and
- 8 environmental concerns regarding livestock
- 9 production. Its recommendations have dealt with a
- 10 number of issues, including concerns addressed in
- 11 this hearing.
- 12 In recent years, many livestock
- 13 operations in Illinois have expanded in an effort
- 14 to take advantage of efficiencies which may be
- 15 connected with these larger units. As the size of
- 16 the operation has grown, so has the amount of waste
- 17 which is generated and must be ultimately disposed
- 18 of by the operators of these production units.
- 19 Many citizens have expressed concern over
- 20 the possible negative impacts these large volumes
- 21 of waste might have on soil, water and air
- 22 resources.

- 1 environmental concerns and to report back to the
- 2 task force with its findings. Ten seats were
- 3 established on the working group, in an effort to
- 4 give balanced representation to individuals
- 5 favoring different approaches to the issue.
- 6 Groups favoring more restrictive measures
- 7 controlling the size and location of livestock
- 8 production units chose to provide four
- 9 representatives to the working group. The working
- 10 group reported its findings to the Livestock
- 11 Industry Task Force, giving an opportunity for
- 12 members with opposing opinions to offer a report,
- 13 if they had chosen to do so.
- 14 The recommendations of the working group
- 15 were supported by the task force as a whole, and
- 16 these recommendations were taken into consideration
- 17 by the legislative sponsors of the Bills, which
- 18 eventually became the Livestock Management
- 19 Facilities Act.
- 20 The Livestock Management Facilities Act
- 21 is intended to be preventative in nature, since
- 22 Illinois currently has statutes in place to deal
- 23 with situations once pollution has occurred. The
- 24 Act sets in place regulations providing for the

- 1 proper siting, construction, operation and
- 2 management of livestock management facilities and
- 3 associated waste handling structures.
- 4 It is the intent of the Act, and quoting
- 5 from the Act itself, to maintain an economically
- 6 viable livestock industry in the state of Illinois
- 7 while protecting the environment for the benefit of
- 8 both the livestock producer and persons who live in
- 9 the vicinity of the livestock production facility.
- 10 End of quote.
- 11 Section 55 of the Livestock Management
- 12 Facilities Act established a livestock management
- 13 facilities advisory committee made up of the
- 14 directors of the Department of Agriculture, Natural
- 15 Resources, Public Health and the Illinois
- 16 Environmental Protection Agency or their
- 17 designees.
- 18 I was designated by Director Doyle to
- 19 serve as the chair of the committee.
- The members of the committee were charged
- 21 to review, evaluate and make recommendations to the
- 22 Department of Agriculture for rules necessary for
- 23 implementation of the Livestock Management
- 24 Facilities Act.

- 2 propose rules to the Board, the Pollution Control
- 3 Board, for the implementation of the Act within six
- 4 months of the effective date of the Act. Since the
- 5 effective date of the legislation was May 21, 1996,
- 6 the Department prepared its proposal for a filing
- 7 date of November 21, 1996 with the Illinois
- 8 Pollution Control Board.
- 9 Section 55 of the Act requires that the
- 10 Board hold hearings on and adopt rules for the
- 11 implementation of the Act within six months of the
- 12 Department filing of the rule proposal for that
- 13 purpose.
- 14 The committee met five times during the
- 15 summer and fall of 1996 to review, evaluate and
- 16 recommend amendments to various draft proposals
- 17 developed by the Department.
- The Departments and the Agency
- 19 represented on the committee provide the vast
- 20 amount of professional knowledge and experience on
- 21 a broad spectrum of topics pertinent to the subject
- 22 matter of the -- of the Act.
- 23 The Department recognizes them for their
- 24 efforts and appreciates their recommendations and

- 1 input throughout the rule proposal development
- 2 process.
- 3 The committee considered several sources
- 4 of information such as technical papers, published

- 5 design standards, pertinent information from other
- 6 states, and information provided by industry and
- 7 private individuals as it made recommendations to
- 8 the Department regarding the rule proposal.
- 9 In the fall of 1996, as the advisory
- 10 committee was meeting to develop these proposed
- 11 rules, concerns were raised to the General Assembly
- 12 regarding the absence of regulations since the
- 13 permanent rules had not yet been adopted.
- 14 As a result, the Department developed and
- 15 proposed to the Board an emergency rule pertaining
- 16 to portions of the Act; namely, lagoon
- 17 registration, livestock facility siting, waste
- 18 lagoon design criteria, waste management plans and
- 19 certified livestock manager training and
- 20 certification. The Board adopted these emergency
- 21 rules on October 31, 1996. These rules are
- 22 currently in place until such time as the Board
- 23 adopts the permanent rules.
- I want to briefly summarize the rules

- 1 which we have proposed to the Illinois Pollution
- 2 Control Board. Subpart A sets forth the
- 3 applicability, severability definitions and
- 4 incorporations by reference for the rule proposal.
- 5 This subpart follows concepts developed
- 6 and included in the emergency rules adopted by the
- 7 Board under docket R97-14. All but six terms

- 8 defined within the section have been taken directly
- 9 from the Livestock Management Facilities Act.
- 10 Definitions proposed in the rules will further
- 11 clarify concepts necessary for the enforcement of
- 12 the regulations.
- 13 An important issue relevant to the timing
- 14 of the application of setback needs clarification.
- 15 And the Department respectfully requests that the
- 16 Board consider a further clarification of this
- 17 important matter.
- 18 Subpart B of the proposal is organized
- 19 into eight major sections and outlines the approach
- 20 required of owners and operators of new or modified
- 21 livestock waste lagoons for the registration,
- 22 design, construction, closure and ownership
- 23 transfer of such facilities.
- 24 The proposal closely followed the

- 1 emergency rules adopted by the Board. This subpart
- 2 takes into consideration site-specific
- 3 investigation which is to be performed by the owner
- 4 prior to registration and construction. Design
- 5 criteria is based upon recognized design parameters
- 6 established by either the American Society of
- 7 Agricultural Engineers or the United States
- 8 Department of Agriculture, Natural Resource
- 9 Conservation Service. This subpart establishes
- 10 criteria for construction of lagoon berms,

- 11 monitoring wells, liners, lagoon closure and
- 12 ownership transfers.
- 13 Subpart C deals with waste management
- 14 plans. The application of livestock waste to the
- 15 land is one of the oldest forms of recycling, and
- 16 livestock waste has been used for generations to
- 17 supply nutrients for crop growth and development,
- when properly applied.
- 19 Livestock waste can be a valuable
- 20 resource. However, improper application may have a
- 21 negative impact on surface and groundwater, as well
- 22 as detrimental effects to the soil.
- 23 Subpart C outlines the factors to be
- 24 considered by a livestock producer who must prepare

- 1 a waste management plan in accordance with the
- 2 Livestock Management Facilities Act. This subpart
- 3 outlines what information will be necessary to
- 4 complete a waste management plan, establishes
- 5 criteria for crop nutrient values, optimum crop
- 6 yields, nitrogen availability, and proper disposal
- 7 methods for livestock waste.
- 8 Subpart D. This rule provides details
- 9 for the establishment of a certified livestock
- 10 manager program, intended to enhance the management
- 11 skills of the livestock industry in critical areas
- 12 such as environmental awareness, safety concerns,
- 13 odor control techniques and technology, and the

- 14 development of manure management plans.
- This subpart includes proposed language
- 16 dealing with applicability and administrative
- 17 details. With the Pollution Control Board
- 18 concurrence, the Illinois Department of Agriculture
- 19 intends to adopt further rules and procedures
- 20 pursuant to authorities within the Illinois
- 21 Administrative Procedures Act.
- 22 Sub E of the proposed rules deals with
- 23 penalties associated with violations of three areas
- of the Act; namely lagoon registration and

- 1 certification, certified livestock manager status,
- 2 and waste management plans. This subpart is
- 3 primarily devoted to cease and desist orders listed
- 4 as penalties within the Act.
- 5 This subpart also proposes that a waste
- 6 management plan that is prepared as a result of a
- 7 warning letter from the Department or of a
- 8 compliance agreement shall be subject to review and
- 9 approval by the Department regardless of the size
- 10 of the facility. Also proposed is a statement
- 11 indicating that penalties will not be imposed for
- 12 excessive nitrogen application for unplanned
- 13 cropping changes due to weather or unforeseeable
- 14 circumstances.
- 15 Subpart F deals with financial
- 16 responsibilities and relates to Section 17 of the

- 17 Livestock Management Facilities Act. The intent of
- 18 this Section is to ensure that in the event of a
- 19 closure of a lagoon associated with a livestock
- 20 management facility, the cost of that closure shall
- 21 be borne by the owner of the lagoon versus a unit
- 22 of local government.
- 23 Section 17 of the Act outlines surety
- 24 instruments which may be used to ensure financial

- 1 responsibility. With the concurrence of the
- 2 Pollution Control Board, the Illinois Department of
- 3 Agriculture intends to adopt rules and procedures
- 4 in separate rulemaking processes pursuant to the
- 5 Illinois Administrative Procedures Act.
- 6 Subpart G deals with setback distances
- 7 which are intended to protect air quality and
- 8 control odors which may result from livestock
- 9 production, but may be offensive to neighbors of
- 10 individual operations.
- 11 It is very likely that any livestock
- 12 operation, regardless of size, will generate some
- 13 level of odor by the very nature of the operation.
- 14 Many factors contribute to the level of odor
- 15 resulting from a livestock operation.
- 16 The intent of establishing setback
- 17 distances is to provide for a dilution effect which
- 18 will lessen odors coming from a livestock operation
- 19 before they reach surrounding persons or homes.

- 20 With the concurrence of the Pollution Control
- 21 Board, the Illinois Department of Agriculture
- 22 intends to promulgate rules and procedures
- 23 necessary to perform its duties and
- 24 responsibilities under subpart G in accordance with

- 1 the Illinois Administrative Procedures Act.
- 2 Clearly, the issues which we face are
- 3 complex, have far-reaching impacts, and are not
- 4 easy to resolve. As discussions have been held at
- 5 several locations around the state over the last
- 6 year-and-a-half, it seems that two main themes have
- 7 emerged regarding livestock production in the state
- 8 of Illinois.
- 9 First, is one of providing protection for
- 10 the environment and natural resources of our
- 11 state. This concern is not unique to Illinois, and
- 12 other states have dealt with the same issues in a
- 13 variety of ways.
- 14 The rules which we have proposed will
- 15 serve to reinforce the preventative nature of the
- 16 Livestock Management Facilities Act, as intended by
- 17 the Illinois General Assembly. The proposed rules
- 18 take into account the most current design standards
- 19 and criteria, scientific information and production
- 20 practices to ensure that the natural resources of
- 21 Illinois are protected.
- 22 Another theme has developed which relates

- 23 to the social and economic changes occurring within
- 24 the livestock industry. Much has been said about

- 1 protecting the family farm and restricting the size
- 2 of the mega farm as they are being considered in
- 3 Illinois.
- 4 The rules which we are proposing to the
- 5 Pollution Control Board do not address these social
- 6 and economic issues, but rather provide for the
- 7 protection of our natural resources. However,
- 8 there are many producers and industry experts who
- 9 warned that the increased cost of regulations may
- 10 actually lead to an acceleration of small to
- 11 mid-sized livestock operations leaving the
- 12 industry.
- 13 As a result, the Illinois Department of
- 14 Agriculture recognizes that the rules to be adopted
- 15 need to be fair in their approach, economically
- 16 reasonable in their implementation, and based upon
- 17 sound scientific information.
- 18 With that, that concludes my opening
- 19 comments. Thank you.
- THE HEARING OFFICER: Thank you,
- 21 Mr. Boruff. Mr. Warrington would, you like to
- 22 begin.
- MR. WARRINGTON: Good morning. My
- 24 name is Rich Warrington. I'm the associate counsel

- 1 for regulatory affairs for the Bureau of Water.
- 2 On behalf of our director Mary Gade and
- 3 James Park of the Bureau of Water, we would like to
- 4 welcome you here this morning and like to thank you
- 5 for your interest in these proceedings.
- 6 Today I'll be summarizing the testimony
- 7 of Jim Park given at the hearing in Jacksonville,
- 8 Illinois earlier this month. Additional copies of
- 9 his written testimony are at the table at the back
- 10 of the room, if you'd like one.
- 11 To summarize his testimony is that the
- 12 Illinois EPA supports the adoption of R97-15. The
- 13 division of operation, certification and the
- 14 mandate for livestock waste management plans for
- 15 the largest of these facilities is a positive step
- in establishing consistent and responsible
- 17 operation of livestock waste handling facilities in
- 18 the state.
- 19 We endorse and encourage the training and
- 20 educational programs set forth in these rules as a
- 21 meaningful approach in making the agricultural
- 22 community aware of the responsibilities and
- 23 beneficial aspects of sound livestock waste
- 24 management.

- 2 promises to allow for the communication and the
- 3 evaluation of innovative technology as it affects
- 4 the development of the operators' waste management
- 5 plans. The expansion of the setback limit as its
- 6 mandated under the Livestock Facilities Act, is
- 7 also a necessary step in addressing the potential
- 8 detrimental aspects of large livestock facilities.
- 9 In addition to our general support, we
- 10 would like to offer the Board three specific
- 11 suggestions that these rules could be improved in.
- 12 The first is that soil boring
- 13 requirements are satisfactory for the vast majority
- 14 of sites in Illinois, as prescribed under 35
- 15 Illinois Administrative Code 506.202(b). However,
- 16 the Illinois Department of Agriculture needs
- 17 adequate flexibility to require additional borings
- 18 in the case of disturbed or mined land that may
- 19 have altered hydrology and soil conditions. More
- 20 routes to groundwater via abandoned shafts. In
- 21 these circumstances, a single boring for a large
- 22 four-to-six acre lagoon would be insufficient.
- 23 In addition, the rules establish criteria
- 24 for the design of lagoons. Based on experiences in

- 1 Illinois and other states, the Illinois EPA
- 2 recommended two additional criteria that be
- 3 specified in the design standards of the proposal,
- 4 both of which are addressed in the referenced

- 5 documents submitted by the Department of
- 6 Agriculture with their proposal to the Board.
- 7 These are a prohibition on the use of
- 8 outlet piping through the lagoon berm. Section
- 9 4.6-2 of the American Society of Agriculture
- 10 Engineers Standards states, and I quote, an
- 11 overflow device with a minimum capacity of 1.5
- 12 times the peak daily inflow may be installed at the
- 13 lagoon surface level, only if the overflow is to be
- 14 contained in another lagoon cell or other treatment
- 15 facility. Other devices should be installed in a
- 16 way that allows effluent to be taken at a level of
- 17 150 to 450 millimeters, or six to eight inches
- 18 below the surface, close quote. This seems to
- 19 suggest that a subsurface outlet may be approved.
- 20 The Illinois EPA is aware of a recent
- 21 example in North Carolina where a lagoon slope
- 22 failure was related to, and possibly directly
- 23 caused by, an outlet pipe design of this type. The
- 24 National Resource Conversation Service recently

- 1 changed the North Carolina guidance document so
- 2 that, quote, if any pipes are to be placed through
- 3 the embankment of the location, method of
- 4 installation shall be approved by the designer of
- 5 the embankment and installed by a certified
- 6 designer of the embankment, close quotes.
- 7 It should be noted that this guidance

- 8 document, although designates any National Resource
- 9 Conservation document, was developed specifically
- 10 for and applies only to North Carolina.
- 11 The National Resource Conservation
- 12 Service references a document submitted to the
- 13 Board with this proposal does not contain this
- 14 guideline. Therefore, the Illinois EPA recommends
- 15 an addition to R97-15 that either prohibits the use
- 16 of through-the-berm outlet piping, unless the
- 17 piping discharges to another lagoon, or would
- 18 require the Illinois Department of Agriculture's
- 19 specific approval, as called for in the North
- 20 Carolina example.
- 21 And lastly, the Illinois EPA recommends
- 22 that the design criteria require an emergency
- 23 spillway. The National Resource Conservation
- 24 Service document very clearly specifies under what

- 1 conditions this is to be present when, I quote,
- 2 lagoons having a maximum design liquid level of
- 3 three feet or more above natural ground shall be
- 4 provided with an emergency spillway or an overflow
- 5 pipe to prevent overtopping.
- 6 Since this is not close -- this is not
- 7 addressed in the American Society of Agricultural
- 8 Engineers' document, a potential point of confusion
- 9 exists that could be corrected by adding a specific
- 10  $\,$  provision to R97-15 for the necessary design to

- 11 include an emergency spillway.
- 12 In conclusion, the Illinois EPA acting in
- 13 its role through the Livestock Management Facility
- 14 Act and advisory committee has evaluated and made
- 15 recommendations on a wide variety of issues
- 16 presented on the subject of livestock waste
- 17 management.
- In the course of our deliberation -- in
- 19 the course of our deliberation, those on this
- 20 committee, the Department of Public Health, the
- 21 Department of Natural Resource, and in particular,
- 22 the Department of Agriculture, are to be commended
- 23 for their efforts and in drafting a well-reasoned
- 24 set of proposed rules for the Illinois PCB's

- 1 consideration.
- 2 R97-15 represents a strong step forward
- 3 in the effective management and prevention of
- 4 pollution from large livestock facilities in
- 5 Illinois.
- 6 We encourage the Illinois Pollution
- 7 Control Board to adopt R97-15 and include the above
- 8 noted additions. Thank you.
- 9 THE HEARING OFFICER: Thank you,
- 10 Mr. Warrington. Okay. Dr. Marlin would you like
- 11 to begin with your testimony.
- DR. MARLIN: I'm John Marlin. I
- 13 represent Brent Manning, the director of natural

- 14 resources on the Livestock Management Advisory
- 15 Committee. The Department of Natural Resource
- 16 generally supports the livestock regulation
- 17 proposal before the Board today.
- We realize that its scope is limited by
- 19 constraints of the Livestock Management Facilities
- 20 Act. We are confident that the groundwater
- 21 protection and structural integrity portion of the
- 22 rules regarding lagoons themselves are in sync with
- 23 the accepted standards at the national level and
- 24 the state level. And we believe they will provide

- 1 a significant protection to groundwater and surface
- 2 water throughout the state.
- 3 We also strongly support the operators
- 4 certification and training portions, in that they
- 5 will provide the Department of Agriculture an
- 6 opportunity to address operational and procedural
- 7 matters not specifically addressed by the Act or
- 8 regulations. We have one proposed modification to
- 9 the regulations in the area of the definition of a
- 10 populated area.
- 11 We propose modifying that definition to
- 12 make sure that land managed for conversation or
- 13 recreation purposes, including 4-H and scout camps,
- 14 be considered populated areas, as long as they meet
- 15 the 50 person per week attendance requirement.
- 16 Additionally, we believe that the

- 17 boundary of such properties should be used when
- 18 measuring the appropriate setback distances.
- 19 We appreciate this opportunity to appear
- 20 before the Board, and thank all the participants.
- 21 THE HEARING OFFICER: Thank you,
- 22 Doctor. Mr. Mudgett, would you like to present
- 23 your comments.
- 24 MR. MUDGETT: I'm with the Illinois

- 1 Department of -- Department of Public Health, and I
- 2 represent Director Lumpkin on the advisory
- 3 committee that developed the proposed rules.
- We, the Department, support the rules as
- 5 written. Our primary concern in the development of
- 6 these rules was the protection of groundwater,
- 7 which can serve as a source of supply for drinking
- 8 water wells, private wells that are located in the
- 9 vicinity of these types of facilities. And we
- 10 believe that the requirements that were developed
- in that regard are both adequate and reasonable.
- 12 We also endorse the remainder of the
- 13 rules that were written, and believe that the
- 14 public health aspects that are inherent in those
- 15 rules were carefully considered and adequately
- 16 included as need be.
- 17 We also believe that the rules that we
- 18 have proposed, again with regard to public health
- 19 in particular, are in keeping with both the letter

- 20 and the spirit of the Livestock Management
- 21 Facilities Act.
- I, too, have provided copies of my full
- 23 written testimony, and they are located on the back
- 24 table with the others. We appreciate the

- 1 opportunity to participate in this very important
- 2 rulemaking, and also as others, have commended the
- 3 Department of Agriculture for the open manner in
- 4 which the rulemaking process was developed and the
- 5 way that our various recommendations were
- 6 considered. Thank you.
- 7 THE HEARING OFFICER: Thank you
- 8 Mr. Mudgett. At this time, what we are going to
- 9 do, we are going to have the Agency representatives
- 10 sit down and have those that have prefiled come up.
- 11 You will be given an opportunity to ask
- 12 all of these gentlemen questions after we have
- 13 heard the testimony of the other witnesses who have
- 14 prefiled.
- 15 So at this time, if Jill Appell,
- 16 Dr. Dennis DiPietre, William Englebrecht and David
- 17 Worrell could come up and sit here. And they can
- 18 go ahead and we can begin with their testimony. In
- 19 addition, if we have got the liberty to use the
- 20 next-door room, we are going to open it up right
- 21 now and see what's on the other side. Hopefully,
- 22 we will have additional chairs over there

24 THE HEARING OFFICER: Okay. Then

40

1 let's begin again. Could the court reporter please

- 2 swear in the witnesses.
- 3 (Wherein all three witnesses were
- 4 sworn in by the court reporter, each having said I
- 5 do, and testified as follows:)
- 6 THE HEARING OFFICER: And please
- 7 remember when you are giving your testimony, speak
- 8 very loudly. We do have a few people. In case it
- 9 doesn't get picked up, use the microphone.
- 10 And Mr. Harrington, would you like to
- 11 begin.
- MR. HARRINGTON: Yes. I'm Jim
- 13 Harrington here representing the Illinois Pork
- 14 Producers, Illinois Beef Association, and the
- 15 Illinois Farm Bureau. We have four witnesses we
- 16 are going to present today. Three are here, and
- 17 one is on the way.
- 18 If at any time, you cannot hear the
- 19 witnesses, please raise your hand and signal. And
- 20 we will try to speak up, or better, use the
- 21 microphone for everyone's benefit.
- Our first witness today is Bill
- 23 Englebrecht.
- MR. ENGELBRECHT: Thank you. I

1 would first like to thank the members of the

- 2 Illinois Pollution Control Board for the
- 3 opportunity to address the Board today.
- 4 My name is Bill Engelbrecht. I am the
- 5 owner and operator of several beef enterprises.
- 6 Engelbrecht Angus farm is 500 head seedstock
- 7 operation at Henry, Illinois. For nearly 100
- 8 years, there have been cattle grazing the pastures
- 9 and hills along the Illinois River Valley.
- 10 Cattle have been our livelihood for
- 11 generations, and I will hope that they would
- 12 continue to be for the next generation, which
- includes my three young sons.
- 14 Years ago, these hills were plowed in
- order to raise crops. But now our efforts to
- 16 conserve the land mean that we graze cattle on the
- 17 lush hills to make our living. We provide genetics
- 18 throughout the United States.
- 19 Our second cattle operation is Black Gold
- 20 Cattle Company, with 2,000 head of commercial
- 21 cow/calves located in Fulton County. A few miles
- 22 away, we have 5,000 head of confined cattle feeding
- 23 operation located near Lewistown, Illinois.
- 24 This operation uses a large waste

- 2 to integrate the beef production systems, thereby
- 3 maximizing the ability to utilize the best genetics
- 4 technology and management available in the industry
- 5 today.
- 6 But most importantly, it's designed to
- 7 put a nutritional, healthful, and delicious product
- 8 on the dinner tables --
- 9 THE HEARING OFFICER: Could you hold
- 10 on one second? Off the record.
- 11 (Off-the-record discussion held.)
- 12 THE HEARING OFFICER: I'm sorry.
- 13 Please continue.
- MR. ENGELBRECHT: I'm sorry. I
- 15 can't see. Just kidding.
- But most importantly, our efforts are to
- 17 put a nutritious, healthful and delicious product
- 18 on the dinner tables of the American consumer.
- 19 I think as you view the world, it's
- 20 interesting in many countries, many people spend
- 21 their days simply trying to put enough food on the
- 22 table. American agriculture has done mighty well
- 23 in serving the American public.
- Yes, we have thousands of cattle.

- 1 Perhaps no one else in the state has more. But I
- 2 will also claim that maybe no one else has as many
- 3 pheasants or duck or geese or chucker or turkey or
- 4 quail or deer and fish than we have on our farms.

- 5 There is abundant wildlife flourishing side by side
- 6 with our beef production.
- 7 At Black Gold, we now host the Illinois
- 8 Department of Resource's Dog Trials. We have a
- 9 catch-and-release program and other special
- 10 conservation-oriented events.
- 11 Brent Manning, DNR's director, has looked
- 12 out over the hills at our operation at Black Gold
- 13 and seen the cattle and the wildlife flourish in
- 14 the same pastures.
- 15 As our management of the grazing land
- 16 improves the quality of the forages and the water
- 17 for our cattle, we also improve the habitat for all
- 18 the wildlife that are a part of that environment.
- 19 This past year, we worked hand in hand
- 20 with DNR to expand our wildlife management plan and
- 21 to improve our national resources at Black Gold.
- 22 This year, hunters and fisherman from all
- 23 over America will come to Black Gold in
- 24 unprecedented numbers. While there, they will see

- 1 and learn what we have known for years; livestock,
- 2 wildlife and sound environmental management go hand
- 3 in hand.
- 4 As you can see, my family has a very
- 5 large financial commitment to the beef industry.
- 6 The outcome of this rulemaking will have a large
- 7 impact on me, my family, my employees, and with

- 8 those with whom I do business.
- 9 My family and my employees' families
- 10 drink the water from the wells where we raise
- 11 cattle on our farm. We fish in the lakes. We hunt
- 12 in the woods. We find tremendous joy in the beauty
- of nature that has been entrusted to our care.
- 14 Management decisions are made with
- 15 environmental impact concerns in mind. I am not at
- 16 all interested in upsetting the balance of nature.
- 17 In the final analysis, the farmer, the
- 18 livestock producer are the real true
- 19 environmentalists. In many respects, my whole life
- 20 is geared around caring for the environment. It's
- 21 not those who live someplace else and come out of
- 22 their homes sporadically at every town meeting with
- 23 a loud and shrill voice.
- We ask you, Pollution Control Board, to

- 1 trust us, to work with us, and most importantly to
- 2 help us to do the right things.
- 3 Sound environmental standards for
- 4 livestock production are warranted. I believe that
- 5 the Livestock Management Facilities Act is a good,
- 6 proactive effort by the industry that has
- 7 established those standards.
- 8 You, this Board, has demonstrated its
- 9 wisdom earlier when the emergency rules for
- 10 Livestock Management Facilities Act where adopted.

- 11 A future of the livestock industry in Illinois will
- 12 be largely defined by the permanent rules now being
- 13 promulgated before you.
- 14 Contained within the Livestock Management
- 15 Facilities Act is the charge that the rules adopted
- 16 to implement the Act shall be technologically
- 17 feasible and economically reasonable. Those with
- 18 the shrill voices will say that the Act and the
- 19 rules do not go far enough. But for them, it will
- 20 never be enough, until many of us are out of
- 21 business.
- I am concerned that the cost of overly
- 23 restrictive regulation of livestock production will
- 24 be more than agriculture producers can bear. And

- 1 you know well that our margins are very, very
- 2 thin. I find no one today saying, gee, I'd really
- 3 like to get in the livestock business.
- 4 I urge you to keep this concern in mind
- 5 as you deliberate the final rules.
- And this morning, I'm struck by
- 7 something. I'm struck by the fact that four
- 8 officials sat up here this morning; Public Health,
- 9 Department of Agriculture, Department of Natural
- 10 Resources, and Environmental Protection Agency,
- 11 with their scientists, their administrators, their
- 12 experts all said that they endorsed what this Act
- 13 is doing, with noted exceptions.

- 14 Thank you for the opportunity to testify
- 15 today. I will be glad to respond to any questions
- 16 the Board may have.
- 17 THE HEARING OFFICER: Thank you,
- 18 Mr. Engelbrecht. Is there anyone in the audience
- 19 that has a question for Mr. Engelbrecht at this
- 20 time? Okay. Seeing no questions, anyone from the
- 21 Board would like to ask a question?
- MS. MANNING: Mr. Englebrecht, would
- 23 you be indicate how these rules are going to affect
- 24 your operation, if you could just briefly.

- 1 MR. ENGELBRECHT: Well, the Act, of
- 2 course, as designed, I think will encourage me to
- 3 be a better manager of my facilities. There are
- 4 numerous occasions that will require me to do
- 5 significant additional paperwork, be mindful of a
- 6 lot of regulations. But in general, I'd have to
- 7 say that those are things that are worth doing.
- 8 Those are things that I do think are in my best
- 9 interests or the best interests of the people of
- 10 the state of Illinois.
- MS. MANNING: Thank you.
- 12 THE HEARING OFFICER: Thank you,
- 13 Mr. Engelbrecht. Mr. Harrington, would you like to
- 14 call your next witness.
- MR. HARRINGTON: Yes. Our next
- 16 witness is Jill Appell, and I'm going to ask her to

- 17 add a little bit to her testimony concerning the
- 18 family background in agriculture in Illinois, as
- 19 well as her own role on the farm. Thank you.
- MS. APPELL: Thank you for the
- 21 opportunity to testify here today.
- 22 My name is Jill Appell. I am a pork
- 23 producer from here in Knox County, and I'm
- 24 currently president elect and chair of public

- 1 policy for the Illinois Pork Producers
- 2 Association.
- 3 Our family corporation operates a 600 sow
- 4 farrow-to-finish swine farm, which is approximately
- 5 1600 animal units. Therefore, we will be required
- 6 to have a certified livestock manure manager, and
- 7 we will have to have a manure management plan on
- 8 file on the farm.
- 9 For some of our background, the family
- 10 background, my husband grew up in the same home
- 11 that his father grew up in and his father's father
- 12 grew up in. And the family came from Sweden. My
- 13 husband's great, great grandfather died on the boat
- 14 on the way over here. And so his two-year-old
- 15 great grandfather and great, great grandmother came
- 16 down here to Victoria Township and spent the first
- 17 winter in a cave. And our family has been farming
- 18 in this area ever since then.
- 19 In late 1994, certain types of swine

- 20 confinement systems became an issue in McDonough
- 21 County because some local citizens objected to the
- 22 establishment of a facility and called upon their
- 23 legislators to find a way to prohibit construction
- of the 1200 sow unit.

- 1 In December 1994, Senator Laura Kent
- 2 Donahue and Representative Richard Myers
- 3 established a Hog Confinement Task Force to address
- 4 the concerns associated with the influx of new
- 5 livestock protection facilities in Illinois.
- 6 Members of the task force included farm
- 7 organization representatives, state agency
- 8 personnel and concerned citizens. I served on that
- 9 task force.
- 10 The Hog Confinement Task Force held
- 11 several public hearings and revealed hours of
- 12 testimony from state agency personnel and from the
- 13 public. The testimony concerned the location of
- 14 hog facilities and concerned the social and
- 15 environmental impacts on neighbors.
- The siting of new facilities was the key
- 17 issue discussed during the meetings of this task
- 18 force. Some public members thought that the
- 19 setback provisions in the Illinois Livestock Waste
- 20 Regulations were inadequate for the large-scale
- 21 operations. In response to this concern, the task
- 22 force members representing the Illinois

- 23 Environmental Protection Agency, the Illinois
- 24 Department of Agriculture, and the Illinois Pork

- 1 Producers Association agreed to carry out a project
- 2 to investigate the potential impact of extending
- 3 the current setback requirements without creating
- 4 an exclusionary effect of new facility
- 5 development. I was involved in the -- in the
- 6 survey here in Knox County in Victoria Township.
- 7 The findings of an earlier survey, which
- 8 resulted in the Title 35 setbacks, indicated that,
- 9 quote, between 40 and 60 percent of the land area
- 10 in each township appeared to be included within a
- 11 setback when all rural residences were assumed to
- 12 be non-farm residences. There was little
- 13 difference noted between rural and urban townships
- in regards to the total area affected by setbacks.
- 15 Extending these setbacks to a half mile in
- 16 combination with implementing the non-farm entity
- 17 setbacks, appeared to be extremely restrictive for
- 18 locating new livestock facilities in the majority
- 19 of the survey areas.
- The principal issue to consider here is
- 21 that the potential for having an exclusionary
- 22 effect upon the regulated entities would
- 23 significantly increase if the setback distances are
- 24 arbitrarily increased by a great amount. End of

- 1 quote.
- 2 The results of the 1995 survey, as
- 3 printed in the summary report, A Study to
- 4 Investigate the Potential Impact of Modifying New
- 5 Facility Setback Requirements in Illinois Livestock
- 6 Waste Regulations state, quote, without considering
- 7 the setbacks for non-farm entities, the fourth mile
- 8 setback for farm residences consumes an appreciable
- 9 amount of land in all but Menard and Williamson
- 10 County study areas. Extending these setbacks to a
- 11 half mile in combination with implementing the
- 12 non-farm entity setbacks appears to be extremely
- 13 restrictive for locating new livestock facilities
- 14 in the majority of survey areas. Similar to the
- 15 circumstances for non-farm residential setbacks, a
- 16 procedure allowing for a case-by-case determination
- 17 to deviate from the setbacks applicable to farm
- 18 dwellings would enhance the potential for having
- 19 expansive tracts available for large-scale facility
- 20 development. End of quote.
- 21 IEPA's current procedure that requires
- 22 that N.D.P.E.S. permit if over five acres of land
- 23 is being disturbed or if the facility discharges
- 24 into the water remains in effect. In addition,

- 2 livestock management facilities and new waste
- 3 handling facilities remain in effect.
- 4 The conditions for location and
- 5 exceptions from being considered a new location
- 6 have been working well since the regulations were
- 7 adopted. Those exceptions are critical to avoid
- 8 further impact on the industry, especially since
- 9 the setback distances are only for producers. The
- 10 producer is not protected against the public moving
- 11 within the setback.
- 12 Those requirements, in addition to both
- 13 survey findings, helped establish new setbacks for
- 14 siting of the larger facilities in the Livestock
- 15 Management Waste Facilities Act.
- 16 Another issue that was reviewed by this
- 17 task force was the social and public health
- 18 aspects. Dr. Julia Dyer, assistant director of the
- 19 Illinois Department of Public Health, found
- 20 generally speaking, quote, no correlation of
- 21 proximity to hog confinement operations and the
- 22 transmission of any infectious agent, end of quote.
- 23 The task force reviewed current livestock
- 24 pollution regulations in Title 35 and other data it

- 1 had received, but the members could not reach an
- 2 agreement on how to proceed.
- 3 Then in the spring of 1995, Governor
- 4 Edgar established a Livestock Industry Task Force

- 5 to look at ways for the livestock industry to
- 6 remain viable in Illinois while protecting the
- 7 environment. I am a member of this task force.
- 8 And I served as a member of the environmental and
- 9 social issues working group.
- 10 That group was comprised of both
- 11 producers and members of the Illinois Citizens for
- 12 Responsible Practices. It was this group which
- 13 presented the preliminary report recommending the
- 14 legislation that has become this Act.
- 15 The Governor's Livestock Industry Task
- 16 Force findings were that, quote, current regulation
- 17 of the operation and management of livestock
- 18 production is adequate for today's industry with
- 19 few modifications. End of quote.
- 20 During public meetings of the working
- 21 group, we discussed the potential for groundwater
- 22 contamination from earthen livestock lagoons
- 23 because of problems experienced in states such as
- 24 Missouri and North Carolina. Thus, standards for

- 1 earthen livestock lagoon construction were
- 2 recommended which include inspection prior to
- 3 operation. These standards exceed the requirements
- 4 of any sanitary waste lagoon, as their provisions
- 5 are only guidelines.
- 6 The working group developed and
- 7 recommended to the full Governor's Livestock

- 8 Industry Task Force a draft of the legislative
- 9 proposal, which consisted of four primary
- 10 modifications to the existing regulations. The
- 11 General Assembly added some provisions as the
- 12 legislation advanced through the process.
- 13 First was the earthen livestock waste
- 14 lagoon registration. On the issue of the potential
- 15 for earthen livestock of lagoons to contaminate the
- 16 groundwater, this legislation sets construction
- 17 standards based on guidelines of certified
- 18 professional engineers, establishes registration of
- 19 new or modified earthen livestock lagoons, and
- 20 authorized the Department of Agriculture to inspect
- 21 and approve the lagoons prior to operations.
- 22 Second was the certified livestock
- 23 facility manager. The Illinois Environmental
- 24 Protection Agency indicated that 6 -- 50 to 60

- 1 percent of the complaints now on file with the
- 2 Agency could be avoided or solved by changes in
- 3 management. The Act requires waste handling
- 4 equipment for facilities serving 300 or greater
- 5 animal units to be operated under the supervision
- of a certified manager, and creates a program for
- 7 management education, training and certification.
- 8 Recertification is required every three years.
- 9 This type of program is consistent with
- 10 the sanitary sewer operation certification and with

- 11 the private pesticide applicator's certification
- 12 programs.
- 13 Third was the handling, storing and
- 14 disposing of livestock manure. Farms with more
- than 1,000 animal units, but less than 7,000, must
- 16 have a waste management plan on file at the farm.
- 17 The plans are intended as an integrated management
- 18 tool to assist the owner or operator in meeting
- 19 environmental and operational requirements. It is
- 20 the intent that this program operate similar to the
- 21 pesticide recording -- record keeping program and
- 22 not create a major governmental regulatory
- 23 program.
- 24 Farms with more than 7,000 animal units

- 1 must have a waste management plan preapproved by
- 2 and on file with the Department of Agriculture to
- 3 assure that sufficient land is available to spread
- 4 the manure. The application of livestock manure
- 5 cannot exceed the agronomic rate of nitrogen. And
- 6 restrictions placed on the application of manure as
- 7 far as distance from water sources during the
- 8 winter months and on new irrigation systems.
- 9 And finally, with the setbacks. Many new
- 10 setback distances were established for facilities
- 11 serving 1,000 animal units or greater, based on the
- 12 animal densities. The Act further authorized the
- 13 same conditions for exemptions from setbacks or

- 14 compliance with the maximum feasible location
- 15 requirements as currently set forth in Title 35
- 16 regulations governing agriculture-related
- 17 pollution.
- 18 In addition, the working group revealed
- 19 the issue of odor control and recommended that the
- 20 current odor control methods, as adopted in Title
- 21 35 regulations, remain in effect. Current research
- 22 projects concerning the mechanical separation of
- 23 solids from the liquid in livestock waste have not
- 24 yielded systems that are capable of handling large

- 1 volume units or that are economically feasible,
- 2 mechanically dependable and energy efficient.
- 3 There are many chemical and
- 4 bacteriological compounds available for odor
- 5 control, but are not totally effective and cost
- 6 efficient at the same time.
- 7 The General Assembly added a provision to
- 8 the legislation which states that, quote, rules
- 9 shall take into account all available pollution
- 10 technologies, shall be technologically feasible and
- 11 economically reasonable, and may make distinctions
- 12 for the type and size of livestock management and
- 13 livestock management handling facilities and
- 14 operations. End of quote.
- 15 In conclusion, concerns are being
- 16 expressed by some persons in the livestock industry

- 17 that the implementation of this Act will be the
- 18 straw that breaks many family farm operations. As
- 19 a person who has participated in both task forces,
- 20 as well as in the legislative deliberations,
- 21 concerning the development and the passage of the
- 22 Livestock Management Facilities Act, I strongly
- 23 recommend that the Act be implemented as passed,
- 24 and that its impact on the livestock industry be

- 1 evaluated before consideration of additional
- 2 mandates.
- 3 Thank you for allowing me to testify, and
- 4 I will answer any questions.
- 5 THE HEARING OFFICER: Thank you,
- 6 Ms. Appell. Are there any questions for Ms. Appell
- 7 at this time? Yes. Could you stand up and state
- 8 your name so the court reporter can hear you?
- 9 MR. EMMETT: My name is Bill Emmett,
- 10 McLean County. County board member from McLean
- 11 County.
- 12 Jill, you talked about the task force. I
- 13 also served on that subcommittee with you. And I
- 14 think it should be pointed out that that was not --
- 15 the report that came out of that task force was not
- 16 a majority report. Or I mean, it was a majority
- 17 report, but it was not the consensus of the entire
- 18 task force.
- 19 THE HEARING OFFICER: Excuse me,

- 20 sir. You know what, because you are giving
- 21 testimony and not asking a question, why don't I
- 22 just have you sworn in. That way, it will be
- 23 considered testimony when you are presenting that.
- 24 Please swear him in.

- 1 (Wherein the witness was sworn in by
- 2 the court reporter, stating I do, and testified as
- 3 follows:)
- 4 MR. EMMETT: I was also a member of
- 5 the same subcommittee that Jill was on. That was
- 6 not a majority -- it was a majority report.
- 7 However, in earlier testimony, we heard that the
- 8 committee was divided 50/50. In fact, it wasn't
- 9 divided 50/50. That the citizen environmentalists,
- 10 as we were -- were called, we had one less member
- 11 than what the task force did -- or the livestock
- 12 task force did.
- So, therefore, it was a majority report.
- 14 And there was a second report that we offered at
- 15 the time that was not followed through on.
- 16 And the other thing is you quoted
- 17 Dr. Dyer in '94 when we were holding hearings.
- 18 With holding hearings, you quoted Dyer. And, in
- 19 fact, the quote that you were attributing to Dyer,
- 20 she was quoting a study by Dr. Kendall Thu. He did
- 21 a study on environmental social impact of large hog
- 22 confinements in North Carolina. And he is noted in

- 23 this area. And, in fact, the quote from Dr. Dyer
- 24 was from Kendall's study. And Kendall was

- 1 misquoted by Dr. Dyer. And I think you are aware
- 2 later that Dr. Dyer received a letter from
- 3 Dr. Kendall Thu telling that she had misquoted his
- 4 study. And he was very upset with that. And I'm
- 5 sure there is a letter available, if that's
- 6 needed.
- 7 The -- the other thing you talked about,
- 8 animal unit numbers above 7,000 have to have a
- 9 manure management plan on hand. And I ask you how
- 10 many animal -- or how many facilities in the state
- of Illinois do we have that have 7,000 animal
- 12 units?
- 13 How many hog facilities in the state do
- 14 we have that have 7,000 animal units so, therefore,
- 15 they would be required to have a manure management
- 16 plan on file with the state?
- 17 THE HEARING OFFICER: Is that a
- 18 question directed to Ms. Appell?
- MR. EMMETT: Yes.
- MS. APPELL: We don't actually have
- 21 records of who has facilities and who doesn't. I
- 22 can't answer how many facilities that there are.
- MR. EMMETT: Are you aware of any?
- MS. APPELL: I am aware of several,

- 1 but I can't tell you how many.
- 2 MR. EMMETT: Where are they at?
- 3 MR. APPELL: They are located in --
- 4 close to the southern part of the state.
- 5 MR. EMMETT: But you can't tell me
- 6 where they are located, so we could go to those
- 7 facilities?
- THE HEARING OFFICER: Excuse me.
- 9 Excuse me. The court reporter can't hear you. It
- 10 wouldn't get on the transcript. We just have to
- 11 listen to the person who has actually been
- 12 recognized.
- 13 Ms. Appell, do you have any further
- 14 answer?
- MS. APPELL: One I know is in
- 16 Carlisle. How many others in the state, I really
- 17 can't say.
- 18 And it's true, to respond to the other
- 19 comment, that -- that the livestock producers had a
- 20 majority of the members on that working group. But
- 21 the reason for that was because the citizens group
- 22 did not appoint their fifth person. They were
- 23 given an opportunity to have an equal number.
- MR. EMMETT: We were told about the

- 2 did not -- we did not know that we had a fifth
- 3 person available.
- 4 MS. APPELL: Well, Phil Wright is a
- 5 member of the task force.
- 6 MR. EMMETT: Yes. That's correct.
- 7 MS. APPELL: First task force when
- 8 we decided how this working group was going to be
- 9 set up. Larry Butcher (phonetic spelling), Phil
- 10 Wright, and I sat down and discussed it. And we
- 11 decided -- and Phil Wright should be able to
- 12 confirm this -- that each group would get five
- 13 people and that the CEO's of our organizations
- 14 would be ex-officio members. And that was what was
- 15 decided. I think, Bill, you should remember.
- 16 THE HEARING OFFICER: Excuse me,
- 17 sir. It's just that right now, we have to have
- 18 questions directed to her. And we would certainly
- 19 like to hear your testimony. But we just have to
- 20 wait until we get to the point where we are hearing
- 21 the testimony from people that haven't prefiled.
- 22 Right now, we just want to direct to her questions
- 23 based on her testimony.
- MS. MANNING: If I might, I'd like

- 1 to know, Ms. Appell. The conclusion that you reach
- 2 on page six of your prepared testimony about the
- 3 current research projects concerning mechanical
- 4 separation of solids from the liquid in waste are

- 5 not created systems that are capable, and that is
- 6 sort of a conclusion about the economic
- 7 feasibility.
- 8 Do you -- does the task force have any
- 9 documentation that you might want to put into
- 10 evidence regarding those conclusions on the
- 11 economic feasibility in terms of the costs of --
- 12 some of the costs of those new technologies? The
- 13 Board would really appreciate it if you were able
- 14 to do that.
- MS. APPELL: I can try and find out
- 16 if there is anything.
- MS. MANNING: Doesn't have to be
- 18 done at today's meeting. But during the course of
- 19 our proceedings, that I think in order to -- for us
- 20 to -- to look at that particular conclusion, if we
- 21 had some evidence that led you to that conclusion,
- 22 to put that on the record, I think, would be
- 23 helpful.
- MS. APPELL: Okay.

- 1 THE HEARING OFFICER: Was there
- 2 another question back there? Did I see a hand?
- 3 MS. HUDSON: Karen Hudson. Karen
- 4 Hudson, with F.A.R.M. I would just like to clarify
- 5 the 17,500 animals, not animal units. We think
- 6 there may have been a miscommunication there.
- 7 Okay.

- 8 THE HEARING OFFICER: I'm sorry. Is
- 9 that a question directed to her?
- 10 MS. HUDSON: We were talking about
- 11 the number of animal units in regard to number of
- 12 animals. And the people around me that were saying
- 13 that they knew of other farms with 17,500 hogs.
- 14 And I wanted to clarify that for others in the
- 15 audience.
- 16 THE HEARING OFFICER: That's what
- 17 you are referring to was 17,000 units? Is that --
- MS. APPELL: I didn't say
- 19 anything --
- MS. HUDSON: No, ma'am. He was.
- 21 THE HEARING OFFICER: He was
- 22 referring to --
- MS. HUDSON: Yes, ma'am.
- 24 THE HEARING OFFICER: Okay. Thank

- 1 you. Any further questions. Marie.
- 2 MS. TIPSORD: Marie Tipsord. I'm
- 3 with the Pollution Control Board.
- 4 Ms. Appell, you referred to two studies
- 5 that were done regarding availability of land with
- 6 the setbacks. Would you by any odd chance have
- 7 copies of those studies available, or could we get
- 8 you to supply copies?
- 9 MS. APPELL: Well, I have a copy of
- 10 this preliminary summary report I can give you, and

- 11 I would assume EPA has the full -- has the full
- 12 study with the diagrams.
- 13 MR. HARRINGTON: I will present for
- 14 the record a summary report, a Study to Investigate
- 15 the Potential Impact of Modifying the New
- 16 Facilities Setback Requirements in the Illinois
- 17 Livestock Waste Regulations, January 1996, prepared
- 18 by the Illinois Environmental Protection Agency,
- 19 and reviewed by co-participants, Illinois
- 20 Department of Agriculture, and Illinois Pork
- 21 Producers Association.
- 22 THE HEARING OFFICER: Thank you,
- 23 Mr. Harrington.
- MR. HARRINGTON: We also have

- 1 Ms. Appell's own copy of the actual field surveys
- 2 that were done, but we have not made a copy of them
- 3 yet. We need to get them to a multicolor copying
- 4 source, and they will indicate by township the
- 5 amount of land that is occupied by the various
- 6 sized setback zones during the survey.
- 7 THE HEARING OFFICER: That's fine.
- 8 You can enter it into the record at a later
- 9 hearing. That's fine.
- MR. HARRINGTON: Okay.
- 11 THE HEARING OFFICER: The -- the
- 12 record should reflect that the summary report has
- 13 been marked Exhibit No. 25 and entered into the

- 14 record. Question for Ms. Appell?
- DR. ST JOHN: My name is Bruce
- 16 St John, and I'm with the Illinois Citizens for
- 17 Responsible Practices. I have a question for Jill
- 18 Appell.
- 19 Would you explain for the people
- 20 assembled here how an animal unit is defined in
- 21 terms of swine over 55 pounds in the Livestock
- 22 Management Facilities Act so people understand the
- 23 difference between an animal unit and a large adult
- 24 hog.

- 1 MS. APPELL: Yes. An animal unit is
- 2 based on an equation of one for a cattle -- for a
- 3 head of cattle. So one cattle is one animal unit.
- 4 For a swine over 55 pounds, an animal unit is .4.
- 5 For swine under 55 pounds, it's .03.
- 6 THE HEARING OFFICER: Thank you,
- 7 Ms. Appell. Okay. Mr. Harrington.
- 8 MR. HARRINGTON: A couple of
- 9 clarifying questions, if I may.
- 10 THE HEARING OFFICER: Yes.
- 11 MR. HARRINGTON: First, I believe
- 12 the gentleman in the back of the room mentioned
- 13 something about having waste management plans for
- 14 facilities having over 7,000 animal units.
- 15 What is your understanding of the Act and
- 16 the regulations in terms of at what size waste

- 17 management plans are required to be prepared and
- 18 kept?
- MS. APPELL: The ones that are
- 20 prepared and kept on the farm, the purpose is so
- 21 that they can be management tools, so that they can
- 22 be used by the farmer and not just filed away
- 23 someplace. And the Department of Ag can come out
- 24 to the farm any time during business hours and

- 1 inspect those plans. So that they do have to be
- 2 done. They have to be revised and kept up to date,
- 3 so that they're a useful tool rather than something
- 4 that you just file with the Department and then
- 5 forget about it again until it's time to file them
- 6 again.
- 7 MR. HARRINGTON: Are those required
- 8 for units of under 7,000?
- 9 MS. APPELL: Those that are kept on
- 10 the farm are for units between 1,000 and 7,000.
- 11 MR. HARRINGTON: In the last hearing
- 12 there was some questions from the Board about the
- 13 Federal Equip Program (phonetic spelling). Can you
- 14 cast any light on that?
- MS. APPELL: I have a small amount
- 16 of knowledge about Equip. Maybe just enough to be
- 17 dangerous. The Equip funds are two hundred million
- 18 dollars a year, and these are mandatory federal
- 19 funds that are part of the farm bill. 100 million

- 20 of those go to the livestock sector, and 100
- 21 million will go to the crop sector.
- 22 At this time, the secretary of
- 23 agriculture is still working on the final rule, so
- 24 we are not sure exactly how the funds are going to

- 1 be distributed. But they will be distributed to
- 2 the states, and then the state NRCS technical
- 3 committees will decide how those are -- will be
- 4 distributed.
- 5 The state technical committees have set
- 6 up priority areas for those funds. 75 percent of
- 7 the funds that Illinois receives will go into ten
- 8 areas that have already been decided upon. And
- 9 then 25 percent will be able to be used for more
- 10 discretionary spending. And those -- how those are
- 11 spent will be used -- they will be used for, as I
- 12 understand it right now, existing facilities, to
- 13 help mitigate any environmental problems. They
- 14 will not be used for new facilities.
- MR. HARRINGTON: Thank you.
- MS. MANNING: Ms. Appell, is there
- 17 an ongoing federal regulatory process currently
- 18 that's making some of these decisions yet in terms
- 19 of what the monies can be used for?
- 20 MS. APPELL: They are still
- 21 working. The Department of Ag is still working on
- 22 that.

- MS. MANNING: Okay.
- MS. APPELL: Well, they were

- 1 supposed to have it done months ago. But -- but
- 2 the latest word is they are supposed to have it
- 3 done by the end of this month.
- 4 MS. MANNING: Thank you. Thank you
- 5 for that update.
- THE HEARING OFFICER: Thank you.
- 7 You have a hand up in the back. Could you please
- 8 stand and state your name.
- 9 MR. MEHTA: My name is Chirag,
- 10 C-H-I-R-A-G, last name, Metha, M-E-H-T-A. I'm
- 11 agricultural program coordinator for the Illinois
- 12 Stewardship. Just a point of clarification on the
- 13 Equip program. One notable point is that the
- 14 statute prohibits money from going --
- THE HEARING OFFICER: Excuse
- 16 me. You know, you are testifying too.
- 17 MR. MEHTA: I'm not actually.
- 18 THE HEARING OFFICER: Just to
- 19 clarify.
- 20 MR. MEHTA: It was just a note about
- 21 the Equip program.
- 22 THE HEARING OFFICER: Okay. But you
- 23 are still trying to submit facts into the record.
- MR. MEHTA: Let me ask, does the

1 statute say that the Equip program -- funds through

- 2 Equip should not be going to large-scale
- 3 operations? Is that correct?
- 4 MS. APPELL: At this time what is
- 5 defined as large is yet to be determined. And
- 6 initially, the secretary of agriculture asked the
- 7 states to define large. And then they decided that
- 8 the Department of Agriculture would define large.
- 9 At this point, large has not been
- 10 defined.
- 11 THE HEARING OFFICER: Thank you,
- 12 Ms. Appell. Mr. Harrington, would you like to call
- 13 your next witness.
- MR. HARRINGTON: Call Mr. David
- 15 Worrell.
- 16 MR. WORRELL: Thank you. I'm David
- 17 Worrell. I reside six miles east of Winchester in
- 18 Scott County. I've been active in the local Farm
- 19 Bureau and a pork producer for 21 years.
- I used to raise 4,000 head of hogs
- 21 farrow-to-finish in the family operation. But
- 22 since, have switched to a 500 sow farrow-to-wean
- 23 operation.
- I would like to address the two areas of

- 2 my operation.
- 3 There is much discussion today in what is
- 4 the correct setback distances to protect non-farm
- 5 and farming -- and farming residents.
- 6 After -- after graduation from college, I
- 7 jumped at the chance to buy my grandfather's farm
- 8 and come back to the farm. I started with 35 sows
- 9 and a dream of being a successful grain and hog
- 10 farmer. When I started my operation 21 years ago,
- 11 I laid out my plan so that my farm would be an
- 12 efficient, easy to expand, if I wanted to, and yet
- 13 environmentally safe to my neighbors and to my
- 14 family.
- 15 My concern today is that the city
- 16 residents want to buy lots in the country next to
- 17 established hog operations. Since lots in towns
- 18 are high-priced and scared, people are buying two
- 19 and one-half acre lots in the county to build new
- 20 homes. They want the city life-style and yet live
- 21 in the country.
- 22 An example of this is my neighbor is
- 23 taking his field, which is across from my house,
- 24 out of the government's Cooperative Research Farm

- 1 System and selling nine lots for home builders.
- 2 I started my operation here 21 years ago,
- 3 primarily because there was no nearby residents.
- 4 Now, I have nine homes at my operation's back

- 5 door. We live on a dead-end gravel road six miles
- 6 from the closest town. How can my established
- 7 operation grow with the possible threat of all
- 8 these new neighbors?
- 9 I've set up my operation -- set up my
- 10 operation over the years in accordance to the EPA
- 11 rules, Title 35. And my farm is environmentally
- 12 sound as it can be. But I cannot guarantee that if
- 13 someone wants to build a house across from my hog
- 14 operation, that they will not smell an odor on a
- 15 given day.
- The existing family farm operation has to
- 17 have some rights and privileges as well. Where
- 18 is -- where is my protection in this setback plan?
- 19 All this new neighbor growth has had a
- 20 major impact on my future in the hog industry. A
- 21 year ago, my wife and I were contemplating changing
- 22 our own operation to a farrow-to-wean network.
- In this plan, we would just breed and
- 24 farrow the sows. At 14 to 17 days of age, the pigs

- 1 would go to an off-site nursery in another county
- 2 with another farmer. He would raise the pigs in
- 3 the nursery and sell them to other farmers to
- 4 finish them out. That is, to raise them to market
- 5 weight on their farm.
- 6 Three months ago, we implemented this
- 7 plan. One of the main reasons for doing this was

- 8 so that we would have only 500 sows instead of over
- 9 2,000 head of hogs at one time on the farm. Fewer
- 10 hogs means less manure to handle.
- I want to live in harmony with my new
- 12 neighbors, even though I was there long before the
- 13 homes were built.
- 14 The second point I want to discuss is
- 15 waste management. This past year, the Illinois
- 16 Cooperative Extensive Service, Illinois Pork
- 17 Producers, Illinois Department of Commerce,
- 18 Community Affairs Bureau of Energy and Recycling,
- 19 along with other private companies started the
- 20 Illinois swine environmental course called
- 21 Environmental Assurance Program.
- 22 This study covers odor control, nutrient
- 23 management, manure application, lagoon pollution
- 24 prevention, and many other environmental topics.

- 1 The next step after this study is on-farm
- 2 visits by skilled instructors. Natural Resource
- 3 Construction Service is helping in setting up
- 4 individual environmental programs to tailor fit
- 5 that producer's operation.
- 6 Attending this workshop strengthened my
- 7 swine facility plan for my operation. If the
- 8 certified facility manager training workshops are
- 9 similar, I know they will be useful to livestock
- 10 producers. Let me elaborate.

- 11 Every three years we have KSI Labs soil
- 12 test all our farm farming ground. We tailor the
- 13 amount of manure we spread on that ground to the
- 14 nutrient needs of our soil. On several of these
- 15 farms, we don't use any commercial fertilizers
- 16 other than nitrogen and some lime.
- 17 This manure has a very economical return
- 18 for us. Neighbors have seen how well our crops
- 19 yield with hog manure applications and have started
- 20 asking to buy manure from us to apply to the
- 21 ground. The manure from each phase of our
- 22 operation has different nutrient value, so it must
- 23 be applied accordingly. Manure definitely has an
- 24 economic value when it's used in a good swine

- 1 facility management plan.
- 2 Basically what I've tried to say today is
- 3 that hogs are a very important part of our family
- 4 farm operation. Hogs have been raised on this farm
- 5 for 50 years. We love what we do and want to
- 6 continue to grow and to prosper in a sound
- 7 environmental way.
- 8 Thank you. I'd be happy to answer any
- 9 question.
- 10 THE HEARING OFFICER: Thank you,
- 11 Mr. Worrell. Are there any questions for
- 12 Mr. Worrell at this time? Yes.
- MS. McKEOWN: My name is Lori,

- 14 L-O-R-I, McKeown, M-C-K-E-O-W-N. I live next to a
- 15 hog facility that was built after I purchased my
- 16 home. And I would like to know what the water
- 17 rights are concerning the neighbors that are all
- 18 either running out of water periodically or hauling
- 19 water on a constant basis?
- 20 MR. WORRELL: I can speak on my own
- 21 operation. Around where I live, the water table is
- 22 not too great, as far as wells. All the water for
- 23 my operation comes from ponds for my livestock.
- Our well is located maybe 75 feet from where these

- 1 other lots start. But basically, this well just
- 2 furnishes our own house and that.
- 3 But as far as the rights on the water
- 4 issues, you know, I'm not sure on that. I just
- 5 know in our area, since the groundwater table is
- 6 not very adequate, you know, you have to go with
- 7 another supply of water, such as ponds, to supply
- 8 the livestock.
- 9 THE HEARING OFFICER: To add,
- 10 Ms. McKeown, you may also want to ask that question
- 11 when the agencies get back up here. IEPA or
- 12 Department of Ag, DNR could fully answer the
- 13 question.
- MS. McKEOWN: I have to leave for
- 15 work, but would like to know if there is any
- 16 responsibilities. Can you just go in and pump 24

- 17 hours a day, and we have no water?
- 18 MR. WORRELL: If I pump five hours,
- 19 I'll be out of water. But you'll need to ask
- 20 someone else, because --
- MS. McKEOWN: Does anyone here
- 22 know?
- 23 THE HEARING OFFICER: If you'd like,
- 24 we could you write down the question, and we could

- 1 ask the question later when the agencies come back
- 2 up here.
- MS. McKEOWN: I have to leave for
- 4 work. That's why I'm saying I want to know if
- 5 anyone here knows that.
- 6 THE HEARING OFFICER: Only these
- 7 witnesses can right now answer the questions. If
- 8 you'd like to write it down, we can ask the
- 9 Department of Natural Resources or Department of
- 10 Agriculture later. I'm sorry. This witness
- 11 wouldn't be able to fully answer the question. He
- 12 can only answer really with regard to his
- 13 testimony.
- MS. McKEOWN: Okay.
- 15 THE HEARING OFFICER: Any other
- 16 questions?
- 17 MR. WARD: I'd like to know --
- 18 THE HEARING OFFICER: Could you
- 19 state your name?

- 20 MR. WARD: Dale Ward. I live in
- 21 Rock Island County, up by Orion, Illinois.
- I would like to know what is waste
- 23 management?
- I am surrounded by four hog confinements

- 1 within a mile. And I have one of them farmers that
- 2 will come right up until almost to my house and
- 3 just splash it on the ground; snow, dirt,
- 4 anything. He has no concern about odor or anything
- 5 else.
- 6 And I was out there years before he come
- 7 in the area. And the odor is rough when the wind
- 8 is in the right direction. It gets in your
- 9 clothes, get in your house, and it's rough. Thank
- 10 you.
- MR. WORRELL: Do you want me to
- 12 address any of that?
- 13 THE HEARING OFFICER: To the extent
- 14 that you can. Thank you.
- MR. WORRELL: I just know in my own
- 16 operation, when we haul manure, we knife it in.
- 17 And we never spread on weekends. And, you know, we
- 18 try to make sure to watch the wind direction and
- 19 keep it, you know, away from the residents and
- 20 that.
- 21 MR. WARD: Is it a requirement to
- 22 knifing it in?

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Do you have to, or can you just splash it
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24 around, or what?

- 1 MR. WORRELL: You have 24 hours to
- 2 incorporate it, accept in frozen ground.
- MR. WARD: Okay. Thank you.
- 4 THE HEARING OFFICER: Yes. In the
- 5 back.
- 6 MR. ST JOHN: Yes. I'm Phil
- 7 St John. I'm from Illinois.
- I have a question for you, Mr. Worrell,
- 9 regarding the waste management aspect of your
- 10 testimony. You state we tailor the amount of
- 11 manure we spread on the ground for the nutrient
- 12 needs of our soils. Then it also says on several
- of these farms, we don't use any commercial
- 14 fertilizer other than nitrogen and some lime.
- 15 Are you stating, then, that you are
- 16 getting adequate phosphorus and potassium from the
- 17 waste you are applying on your farm?
- 18 And secondly, do you see that could be a
- 19 problem if farmers weren't conscious like you and
- 20 continued to spread it on dirt without some kind of
- 21 levels?
- MR. WORRELL: Yes. On the farms,
- 23 you know, we just kind of base our manure
- 24 application around our soil samples. And then the

1 ones that is the lowest in phosphorous and pot ash

- 2 is where we start spreading on those areas that we
- 3 concentrate, and we don't use any commercial
- 4 phosphate or pot ash. But that is basically how we
- 5 do it.
- THE HEARING OFFICER: Yes. In the
- 7 back. Could he get his follow-up question?
- 8 MR. WORRELL: What was the
- 9 follow-up?
- 10 MR. ST JOHN: My question was -- and
- 11 you are indicating that application of phosphorus,
- 12 potassium, you are not having to use much
- 13 fertilizer on that.
- 14 My question is: What about if there is
- 15 an over-application of phosphorus and this law
- 16 doesn't address that whatsoever?
- MR. WORRELL: We started -- when my
- 18 dad first started, I think he built his first hog
- 19 confinement in '68, you know. That was one of our
- 20 first concerns was checking the soil samples of the
- 21 ground to make sure that we weren't applying too
- 22 much. And, you know, you have to check it. If you
- 23 just go out in the same field and just keep
- 24 applying your manure in that same field all the

- 2 phosphate too high. So you have to watch it and
- 3 keep track of what your soil samples are telling
- 4 you. And then also what your nutrient is in the
- 5 manure that you are spreading too.
- THE HEARING OFFICER: Okay.
- 7 MR. BEORKREM: Mark Beorkrem. Last
- 8 name about Beorkrem, B-E-O-R-K-R-E-M.
- 9 Sir, you mentioned that you have had
- 10 restrictions -- or you use some restrictions on
- 11 your property usage, because you have single-family
- 12 dwellings moving into the area surrounding your
- 13 farm. And that's a problem throughout the entire
- 14 state with conversion of farmland into other uses.
- Does the Illinois Pork Producers
- 16 Association or the Livestock Producers Association
- 17 put restrictions on the conversion of farmland and
- 18 restricting of rights of your ability to sell your
- 19 land off for other uses?
- 20 And if not, how do you expect to deal
- 21 with your rights being subordinated or superior to
- 22 others that wish to purchase farmland for other
- 23 uses?
- MR. WORRELL: We really -- the

- 1 Illinois Pork Producers don't have any decision or
- 2 anything on that right now.
- 3 MR. BEORKREM: Follow-up. How do
- 4 you expect to deal with this issue of convergent

- 5 farmland?
- 6 Yourself, you favor restrictions on your
- 7 fellow farmers on the sale of their land, or do
- 8 you -- do you think that your rights as a property
- 9 owner now are superior to somebody else that might
- 10 want to move in next to you and buy the land and
- 11 convert it into a factory or some other type use?
- MR. WORRELL: I guess the best way I
- 13 can answer that, when I first heard that my
- 14 neighbor was taking his ground out of the ten-year
- 15 program, and was going to sell lots, we went and
- 16 talked to him about this, because we had the
- 17 concern that we had. And, you know, and I believe
- 18 in free enterprise. But I also -- you know, my
- 19 neighbor can do what he wants to as far as if he
- 20 wanted to sell those lots.
- 21 You know, I had some people suggest, why
- 22 don't you just go buy the ground and prevent all
- 23 this. Well, that wasn't my aim. I didn't want to
- 24 spend that money to do something like that to

- 1 prevent that. But yet, I -- you know, I respect my
- 2 neighbor's rights to do what he wants to. But I
- 3 also think that I have some rights also, especially
- 4 since I've been established there for 21 years.
- 5 You know, I want to work with my neighbors, you
- 6 know, 'cause I have a very good relationship with
- 7 my neighbors where I live.

- 8 But, you know, when the neighborhood
- 9 keeps growing, you know, it's just like anything
- 10 else. The more people you get, sometimes it's a
- 11 little harder to live as a family.
- MR. BEORKREM: So these pollution
- 13 control rules, as far as livestock management, need
- 14 to be written for not only what's in effect now but
- 15 for what we might see in the future, right?
- MR. WORRELL: Read back the
- 17 question, please.
- 18 THE HEARING OFFICER: Restate your
- 19 question, please.
- 20 MR. BEORKREM: So the livestock
- 21 rules developed now need to be written for what's
- 22 in place now, but for what also might occur in the
- 23 future, and the setback rules then have to be taken
- 24 into account that we might have convergents, that

- 1 that will occur; is that right?
- 2 MR. WORRELL: Well, I'm not going to
- 3 say yes or no to that. But just that, you know,
- 4 like I stated here, my testimony, my main concern
- 5 was that, you know, I wanted to be able to still
- 6 continue to farm like I had, you know, raised my
- 7 hog operation and continue to do it in an efficient
- 8 and safe manner.
- 9 But, you know, I wanted people to be
- 10 aware that there is others out there just like me

- 11 that, you know, have been here and are faced with
- 12 some of these same similar circumstances.
- 13 THE HEARING OFFICER: Thank you.
- 14 Have a question in the back?
- 15 MS. HUDSON: Karen Hudson. How many
- 16 acres do you have available for your 500 sow unit
- 17 for manure management?
- 18 And second part of this question: Are
- 19 you monitoring zinc and copper levels in your
- 20 soil?
- MR. WORRELL: Yes. We are
- 22 monitoring the zinc and copper levels. That comes
- 23 back on the soil test. We have 990 acres of
- 24 tillable ground. Our problem is it's spread over

- 1 three counties, and the closest farm is 25 miles
- 2 away, which the only way that we could spread
- 3 manure to that farm was to have somebody with a
- 4 tanker pump it from our place and haul it. And
- 5 that gets pretty economically infeasible sometimes
- 6 to do that.
- 7 So that's why I've been selling some of
- 8 the manure to surrounding neighbors and that, that
- 9 because basically some of my fields, the soil
- 10 samples have showed that I don't need any more
- 11 phosphorus or pot ash.
- So -- and these farmers are -- we have
- 13 worked out an agreement, I think, that's very

- 14 feasible for me to cover some of my costs of
- 15 spreading, plus it gives them a cheap source of
- 16 fertilizer.
- MS. HUDSON: Are you currently using
- 18 all of those acres, or have you kept some of those
- 19 out of that number that you gave me?
- 20 MR. WORRELL: You mean for spreading
- 21 manure?
- MS. HUDSON: Yes. Yes.
- MR. WORRELL: Roughly I'd say close
- 24 to half of it is being used for spreading manure.

- 1 The other half is basically what I said, too far
- 2 away.
- 3 MS. HUDSON: Have you noticed a rise
- 4 in the zinc and copper levels in your soil?
- 5 MR. WORRELL: Not noticeably, no.
- 6 MS. HUDSON: Thank you.
- 7 THE HEARING OFFICER: Thank you.
- 8 And just to let you know, that there is a new
- 9 source of noise back here. So if you could even
- 10 speak up a little more, that would be great.
- 11 Mr. St John.
- DR. ST JOHN: Bruce St John,
- 13 Illinois Citizens Group for Responsible Practices.
- 14 David, I wanted to follow-up on the
- 15 questions that have been asked in terms of how you
- 16 apply your nutrients.

- 17 The current Livestock Management
- 18 Facilities Act calls for livestock waste to be
- 19 applied at rates not to exceed the acknowledged
- 20 nitrogen demands of the crops.
- 21 I take it from your comments that you are
- 22 looking not only at nitrogen, at potassium
- 23 phosphorus, pot ash, and heavy metals, and I take
- 24 it then that you think those types of metals should

- 1 be written into the law, too, in terms of economic
- 2 feasibility.
- 3 MR. WORRELL: I'm not going to say
- 4 yes or no on that. Basically, if you are -- my --
- 5 I guess, my comment on that would be, if you are a
- 6 livestock and grain farmer, you are going to -- you
- 7 are not going to ruin your soil that you are
- 8 applying this manure to, 'cause, you know, that's
- 9 your other source of income is from the grain side
- 10 of your operation.
- 11 So in the past, we have been more
- 12 concerned about what the phosphorous and the pot
- 13 ash levels were. And then also what that ratio was
- 14 between those two to grow our crops. And, you
- 15 know, our crops have -- you know, we have had
- 16 excellent crops and that. And -- but we do, you
- 17 know, watch that.
- 18 One of the things that I did have a
- 19 concern with on the rules was, I think, Section

- 20 20-F, which talks about the nitrogen demand for
- 21 crops to be grown in a five-year average, and that
- 22 sometimes that gets to be real difficult, what that
- 23 five-year average should be. And that because, you
- 24 know, you have so many differences in soil types

- 1 which require different amounts of nitrogen --
- 2 yeah, different amounts of nitrogen to reach what
- 3 you think is the -- your potential yield in that
- 4 field.
- 5 But, you know, and then with restriction
- 6 like seed corn and that, lot of seed companies are
- 7 up coming with different corn, requires different
- 8 amounts of nitrogen. Then you have to tailor all
- 9 of that to there.
- 10 Basically, what it's going to get to, you
- 11 have to be pretty strong in agronomy to keep up
- 12 with all of this.
- 13 Livestock farmers are not trying to kill
- 14 off the soil, especially if you are trying to raise
- 15 a crop to feed those hogs. You are going to defeat
- 16 your purpose if you do that.
- 17 THE HEARING OFFICER: Thank you,
- 18 Mr. Worrell.
- 19 MR. KING: My name is Brent King.
- 20 And, David, I'd like to ask you -- you
- 21 said there is nine lots for sale across from your
- 22 farm. Is there any difficulty -- is the owner of

- 23 that land expressing any interest in -- difficulty
- 24 in selling those lots with your swine farm across

- 1 the road?
- 2 MR. WORRELL: I guess not. He knows
- 3 they are there. And my house sits maybe 50 feet
- 4 from the road. And then these lots are right
- 5 across the road. And I've got one lot that sits
- 6 right by my house. And a lot of times, we run
- 7 culled sows that we are getting ready to sell,
- 8 maybe 20 to a pen, out there on a dry lot. And,
- 9 you know, they are right 50 feet from one of these
- 10 lots and that. So, you know, I guess he's not
- 11 concerned, 'cause, you know, he knew it. You know,
- 12 I lived there before he even bought the ground.
- 13 You know, I assume that. You know, it's not like
- 14 I'm sneaking in the back door. I've been there
- 15 long before anybody else.
- MR. KING: Could I follow-up?
- 17 THE HEARING OFFICER: Yes.
- 18 MR. KING: What you are saying is you
- 19 neither -- nor the owner of that land sees any
- 20 great negatives to its saleability or commercial
- 21 value or real estate value because you have hogs
- 22 there?
- MR. WORRELL: I guess not, because
- 24 when we went -- my wife and I went to talk to the

- 1 farmer and his wife about, you know, him selling
- 2 these lots, he said that he is selling these lots
- 3 privately himself, and he said that everybody that
- 4 was coming to look about buying a lot, he was
- 5 explaining our that hogs were our livelihood and
- 6 that was our operation.
- 7 So obviously, I guess he doesn't see a
- 8 problem in that.
- 9 THE HEARING OFFICER: Thank you.
- 10 Thank you, Mr. Worrell.
- Do we have anything from the Board? Oh,
- 12 yes. One question in the back.
- MS. BUSS: Donna Buss, B-U-S-S. Are
- 14 you expressing some concern that these lots are too
- 15 close around, going to cause you problems because
- of complaints down the road?
- MR. WORRELL: Well, that's my
- 18 natural worry. My hog -- my main hog operation is
- 19 set back towards the middle of my farm, but yet,
- 20 you know, any time that there -- you know, that
- 21 it's that close, it starts to worry you. That was
- 22 one of the main.
- MS. BUSS: How close are these lots
- 24 to your operation?

- 2 be about a quarter of a mile.
- MS. BUSS: And you feel that's too
- 4 close for them to live comfortably?
- 5 MR. WORRELL: I don't think there is
- 6 any problem. There is no problem right now. But
- 7 I'm just -- I guess it bothers me that once they
- 8 build their \$100,000 homes there, and some day they
- 9 look out the window and say, I really don't like
- 10 that landscape, I look, over there is waste and see
- 11 hog confinements, I would rather see, you know,
- 12 trees or bare ground or something like that.
- 13 That's what concerns me. That they may, you know,
- 14 cause me some problems down the line.
- MS. BUSS: Your concern on the
- 16 setbacks is that actually civilization is starting
- 17 to infringe on the setbacks that you have. What
- 18 about the opposite way where operations come in and
- 19 infringe on the setbacks of residences who are
- 20 already there for even decades, as much as you've
- 21 been there, for decades before these places come
- 22 along?
- MR. WORRELL: Basically, that's why
- 24 we are working with the setback regulation.

- 1 It's -- you have to live in harmony with your
- 2 neighbors, wherever your neighbors are at, and
- 3 whatever type neighbors you have. And that's
- 4 basically just what we are trying to work through,

- 5 and that's what this Board, I think, is trying to
- 6 establish is seeing both sides of everybody's
- 7 discussion.
- 8 MS. BUSS: Thank you.
- 9 THE HEARING OFFICER: Thank you,
- 10 Mr. Worrell. Any other questions? Okay. Thank
- 11 you, Mr. Worrell.
- 12 Mr. Harrington, is Mr. Dennis DiPietre
- 13 here to testify?
- MR. HARRINGTON: Apparently not. He
- 15 was due to be here at 10 o'clock.
- 16 THE HEARING OFFICER: Okay.
- 17 MR. HARRINGTON: But if he comes
- 18 later, then we can deal with it when he comes.
- 19 Thank you.
- MR. HARRINGTON: Thank you.
- 21 THE HEARING OFFICER: Now, what we
- 22 would like is have these witnesses sit down. And
- 23 if the following witnesses could come up to sit and
- 24 get ready to testify in the front.

- 1 Mr. John Weber, Ms. Jane Johnson,
- 2 Mr. Bruce St John and Mr. Safley.
- 3 (Recess taken at 11:00 a.m.)
- 4 THE HEARING OFFICER: Okay. Then back on
- 5 the record now.
- 6 Mr. -- Dr. Dennis DiPietre has joined us,
- 7 so if you could please swear in Mr. DiPietre.

- 8 Swear all of them in at one time. It will be
- 9 easier.
- 10 (Wherein all five witnesses were
- 11 sworn in by the court reporter, all saying I do,
- 12 and testified as follows:)
- 13 THE HEARING OFFICER: Mr. Taber, if
- 14 you'd like to present your witness.
- 15 MR. TABER: Yes. We call Dr. Dennis
- 16 DiPietre.
- DR. DiPIETRE: The testimony I'm
- 18 about to give is an estimation of the economic
- 19 impact of the swine industry to the state of
- 20 Illinois.
- 21 If you would indulge me for just a
- 22 moment, I will -- I want to start at the global
- 23 level, come down to the United States, and spend
- 24 the bulk of my comments about Illinois.

- 1 First of all, in terms of the global
- 2 trend, pork is the most widely consumed animal
- 3 protein in the world. In 1996, pork accounted for
- 4 over 40 percent of world meat consumption, beef was
- 5 second with about 29 percent, and poultry was third
- 6 with about 23 percent share.
- 7 For the past several years, pork
- 8 consumption in the United States has remained
- 9 relatively stable, while beef consumption has
- 10 declined, and poultry consumption has increased

- 11 dramatically.
- 12 Internationally, pork consumption is on
- 13 the rise. Rising incomes, increasing population
- 14 and reduced barriers to trade have been key factors
- in rising worldwide demand for pork.
- 16 China has led the record in increased
- 17 consumption, averaging over 8 percent increases per
- 18 year in consumption during the 1990's. During this
- 19 same period, South Korea has averaged 7.3 percent
- 20 annual increases; Mexico, our second largest
- 21 importer of U.S. corn, 4.5 percent annual
- 22 increases; and Brazil, as much as 6 percent annual
- 23 increases in consumption.
- 24 The United States has also increased

- 1 consumption by about 3 percent per year during the
- 2 period 1990 to 1993.
- 3 The world political climate is moving
- 4 toward a trade environment with less protectionism.
- 5 Examples of that include the GATT and NAFTA
- 6 treaties. The United States is generally
- 7 considered to be the lowest cost producer of
- 8 quality pork worldwide.
- 9 So in this environment, global
- 10 environment, of increased free trade, the low cost
- 11 producer of quality pork would be expected to
- 12 increase market share. This is, in fact, what is
- 13 happening in the United States.

- In 1995, the United States became a net
- 15 exporter of pork for the first time since 1952.
- 16 1996, the United States reached a record one
- 17 billion dollars in total exports of pork and pork
- 18 product.
- 19 On the national scene, consolidation of
- 20 the swine industry is continuing to follow a trend
- 21 which began shortly after World War II. This is
- 22 what economists refer to as reallocation of
- 23 reproductive capacity. As it occurs, it's not only
- 24 a case of pork production moving to larger farms,

- 1 but also the industry itself is moving to different
- 2 regions of the United States.
- 3 A growing percentage of national sow base
- 4 is leaving traditional growing areas such as Iowa
- 5 and Illinois and locating in the south, mid-south
- 6 and southwestern of the United States.
- 7 Historically, pork production was carried
- 8 out on a large number of relatively small farms.
- 9 The great majority of locations producing pigs in
- 10 the United States have an annual inventory of less
- 11 than 100 head. In 1990 -- or in 1980, for example,
- 12 almost 96 percent of the locations in the United
- 13 States which had pigs in inventory had less than
- 14 500 head total.
- The restructuring that we just mentioned
- 16 of this industry is one of the most persistent

- 17 changes taking place in the swine industry
- 18 nationally, and it has been occurring for more than
- 19 30 years, long before there was anything in
- 20 existence that could be called a large operation.
- In 1970, according to the USDA hogs and
- 22 pigs reports, there were about 875,000 locations in
- 23 the U.S., which had at least one pig in inventory
- 24 at some point during the year.

- By the year end of 1996, we had gone from
- 2 875,000 down to 160,000 locations in Illinois. The
- 3 trend in Illinois has been to follow this national
- 4 trend. In 1980, the USDA hogs and pigs report
- 5 estimated a total swine inventory in Illinois to be
- 6 about 6.6 million head. Just 16 years later, by
- 7 the end of 1996, total inventory had been reduced
- 8 to about 4.4 million head. This is a full
- 9 one-third reduction in total inventory in swine in
- 10 the last 16 years.
- 11 The future productive capacity of the
- 12 Illinois swine industry, if it is to be measured by
- 13 the breeding stock inventory, shows a similar trend
- 14 of the total inventory. In 1980, the USDA
- estimated the breeding herd in Illinois at 891,000
- 16 head. By year end 1996, 16 years later, breeding
- 17 herd in Illinois has been reduced to 520,000 head.
- 18 This represents a 40 percent reduction in breeding
- 19 herd inventory.

- 20 Even though the production per sow is
- 21 increasing, this reduction -- the amount of this
- 22 reduction in the breeding herd represents a net
- 23 large loss to the productive capacity of the
- 24 industry in Illinois. Farming operations which

- 1 produce pigs in Illinois have typically been
- 2 diversified producing a very small number of pigs
- 3 as well as a variety of other agricultural
- 4 problems. In 1980, the USDA estimated that
- 5 Illinois had about 30,000 locations which had at
- 6 least one pig in inventory at least at one time
- 7 during the year. By the end of 1996, that -- that
- 8 number had been reduced to 8,000.
- 9 The average inventory during that same
- 10 period on Illinois farms rose from 220 head to
- 11 about 500 head. The industry in Illinois and
- 12 throughout the United States is changing to a much
- 13 smaller, but still significant number, of moderate
- 14 to larger size specialized operations producing
- 15 pigs.
- 16 The latest census of agriculture reveals
- 17 that -- reveals a continuation of this trend. The
- 18 census report at over 50 percent of U.S. farms had
- 19 livestock in 1950 compared with only 11.7 percent
- 20 in 1989. The proximal distribution of Illinois
- 21 producers by size at the beginning of 1996 was less
- 22 than 100 head, about 2,900 locations; 100 to 499

- 23 head, about 3,300; 500 to 999 head, about 2,600
- 24 locations; 1,000 to 1,999 head, about 1,300; and

- 1 those which had 2,000 head in inventory -- and just
- 2 to be clear, this is not 2,000 sows, but 2,000
- 3 total inventory -- about 470 locations. Total of
- 4 about 10,570 locations.
- 5 80 percent of the inventory in Illinois
- 6 is held on approximately 30 percent of the
- 7 locations producing pigs. Illinois ranked second
- 8 in total inventory behind Iowa for many, many
- 9 years. Since 1993, Illinois has fallen behind both
- 10 Minnesota and North Carolina to fourth in the
- 11 nation with respect to total inventory. And the
- 12 question for Illinois is: Is this important and
- 13 should anyone in Illinois care?
- 14 The economic impact may answer part of
- 15 that question. Pork production and the related
- 16 support industry is big business in Illinois. John
- 17 Lawrence and Dan Otto in a report from Iowa State
- 18 University, 1992, showed gross receipts from swine
- 19 have exceeded one billion dollars annually in
- 20 Illinois to producers. For Illinois, this
- 21 represents about 15 percent of total ag marketing
- 22 for swine, and over 50 percent of total livestock
- 23 and poultry marketings, which shifts from year to
- 24 year, but represents close to and sometimes over 50

- 1 percent of total livestock.
- 2 Swine production is what we call a basic
- 3 industry in economics. Basic industries create
- 4 wealth for the state, community and region. They
- 5 do this by marketing their product outside the area
- 6 of production, thereby resulting in the transfer of
- 7 new dollars into the area. Non-basic industries,
- 8 on the other hand, circulate existing wealth and
- 9 expenditures, without creating new injections of
- 10 outside money.
- In addition, swine production is highly
- 12 interrelated with the rest of the economy, both
- 13 agriculture and the non-ag economy. The
- 14 interrelated character results in widespread impact
- 15 when the swine production sector changes. These
- 16 impacts go both ways. As the industry contracts,
- 17 the impacts are reduced or cut off. If it expands,
- 18 the impacts are multiplied through the other
- 19 industries, ag and non-ag, in the Illinois area.
- 20 Linkages are both backward, towards suppliers, and
- 21 economically forward, toward processors and
- 22 value-added sectors.
- 23 Economists recognize three basic
- 24 categories of impact of output, personal income and

- 2 total economic activity directly related and equal
- 3 to the total output of the industry. In practical
- 4 terms, this means that direct purchases that swine
- 5 producers make to produce their animals and get
- 6 them to market. The direct impact. Direct
- 7 employment is the number of full-time equivalents
- 8 necessary to support the current level of
- 9 production, and direct personal income is the level
- 10 of the personal income paid to those employees.
- 11 We can also, though, recognize indirect
- 12 effects, which many people don't understand here.
- 13 But these result when the supply industries make
- 14 purchases, hire employees, pay salaries and wages.
- 15 All of this in direct support of the level of
- 16 output produced on farms.
- So, for instance, when feed purchasers,
- 18 which are direct impacts made by the producer, the
- 19 feed company then must purchase corn, hire people,
- 20 pay utility for the elevator and feed making
- 21 operations and so on. These are considered the
- 22 indirect impacts. In addition, all the downstream
- 23 purchases that the corn or soybean producer had to
- 24 make to grow that corn are also part of the

- 1 indirect impact. So they may remain kind of occult
- 2 or hidden.
- 3 Input-output analysis to the Midwest
- 4 states can help get at some of those impacts. It

- 5 indicates that the direct and indirect effects are
- 6 multiplied for output, income and employment. And
- 7 those multipliers are approximately 1.69 for
- 8 output, 2.89 for personal income, and about 1.39
- 9 for employment. These multipliers give the total
- 10 amount of each type of activity, which is either
- 11 stimulated as the industry expands or contracted
- 12 per unit of change in the baseline of value of
- 13 production of swine.
- 14 For instance, if Illinois output of swine
- 15 were to be raised to a new sustained level of
- 16 output, one million dollars above the current level
- 17 of production, we used multipliers to estimate the
- 18 total impact on the economy, approximately 1.69
- 19 million dollars would be created in increased
- 20 economic impact, both direct and indirect. And
- 21 2,890,000 would be created in additional personal
- 22 income. And for the number of persons hired to
- 23 produce that one million dollars of additional
- 24 impact, 1.39 times that total would -- would be

- 1 higher than the total to account for both direct
- 2 and indirect impacts.
- 3 A third category of impact is referred to
- 4 as induced impact. Induced impact occurs as
- 5 household used personal income created by the
- 6 direct and indirect impacts to buy household
- 7 goods. Food, recreation or other items are also

- 8 included. All of the downstream impacts of an
- 9 industry, which must supply these needs, are also
- 10 included in the induced impacts. Induced impact
- 11 occurs in output employment and income. The
- 12 output, personal income and employment multipliers
- 13 for swine production in Missouri, which include the
- 14 induced effects are larger than the direct and
- 15 indirect ones. They are 3.36, 9.78 and 2.49
- 16 respectively for output, employment and personal
- 17 income.
- 18 And it would be expected that these would
- 19 be roughly the same for Illinois, since the same
- 20 production technology is used here.
- 21 In terms of direct economic impact
- 22 production technologies which are employed in
- 23 Illinois are quite diverse. However, feed is the
- 24 greatest single cost to direct purchase of

- 1 production of farrow-to-finish swine. It is
- 2 estimated that for every thousand sows of
- 3 farrow-to-finish production, approximately 1.17
- 4 million dollars of feed purchases are made in
- 5 direct support on an annual basis of that
- 6 production.
- 7 This estimate has been derived by the
- 8 expected feed purchases of a farm operating a 3.2
- 9 pounds of feed per pound of grain whole herd feed
- 10 efficiency and the inputs valued of the feed at

- 11 ten-year historical price levels. A detailed
- 12 breakdown is given in the appendix of this report.
- The total feed need includes about
- 14 246,000 bushels of corn per year and about 1,500
- 15 tons of soybean material per 1,000 head of sows,
- 16 farrow to finish. Based on the USDA November
- 17 estimate of 1996 of the Illinois crop yield, this
- 18 means that this thousand sows, farrow to finish, of
- 19 swine production supports 1,798 acres of corn
- 20 production in Illinois and 1,518 acres of soybean
- 21 production.
- 22 Lawrence and Otto in their report
- 23 estimate approximately 134 million bushels of corn
- 24 valued at 312 million dollars are consumed by the

- 1 swine industry annually in Illinois.
- 2 In addition, approximately 800 million
- 3 total cash input purchases are needed to support
- 4 the direct production of swine in Illinois. And
- 5 total increase -- the total increase is 970 -- 917
- 6 million, or almost one billion dollars, if the
- 7 labor, which is often provided without cost by
- 8 producers, is imputed at a \$6 per hour rate. Total
- 9 capital expenditures are estimated at over 100
- 10 million dollars annually.
- 11 Besides costs for feed, are also non-feed
- 12 costs. Total non-feed costs or purchases per year
- 13 for each thousand farrow-to-finish production in

- 14 Illinois is estimated to be about 455,000. A
- 15 complete breakdown, again, is in the appendix in
- 16 the report provided to the Board.
- 17 Because of the interrelatedness of the
- 18 swine industry in production, changes in total
- 19 production affect many industries. Zero in on
- 20 employment. Estimated that approximately 5,150
- 21 full-time jobs are created annually in Illinois
- 22 directly on the farm in support of swine
- 23 production.
- When you look at how that is multiplied

- 1 through the rest of the economy in Illinois for
- 2 employment, we can break it down and say that for
- 3 every 100 of those on-farm jobs, we support 26.6
- 4 jobs in crop production; 5.5 jobs in forestry; 4.3
- 5 full-time jobs in construction; 9.1 jobs in
- 6 nondurable manufacturing; 3.3 in durable
- 7 manufacturing; 4.4 in utilities; 9.4 in trade; 16.1
- 8 jobs in finance, real estate and insurance; 6 jobs
- 9 in business services; 12.5 jobs in personal
- 10 services; 7.5 in transportation; 4.6 in other
- 11 livestock; and about 35 other jobs in all other
- 12 segments of the economy added together.
- 13 Total indirect purchases can also be
- 14 estimated for every 1,000 sows, farrow-to-finish,
- 15 production, and it doesn't matter if -- for
- 16 instance, if this is ten 100-sow farms or one

- 17 1,000-sow farms, approximately 400,000 annual
- 18 indirect purchases are made for each 1,000 sows,
- 19 farrow-to-finish, production in Illinois.
- 20 A complete breakdown, again, of those
- 21 industry impacts that are given in the appendix.
- 22 The appendix is in the report. I wouldn't take the
- 23 time to --
- 24 MR. HARRINGTON: Excuse me. May we

- 1 interrupt for a moment.
- THE HEARING OFFICER: Yes.
- 3 MR. HARRINGTON: I believe the
- 4 appendices were inadvertently left off the copies
- 5 that were given to the Board in prefile. We have
- 6 copies for the Board and others who have received
- 7 prefiled testimony.
- 8 THE HEARING OFFICER: Thank you.
- 9 MR. HARRINGTON: We certainly don't
- 10 have enough for everyone in the audience, but more
- 11 can be made available.
- 12 THE HEARING OFFICER: As long as the
- 13 four agencies can get them, and we can put the
- 14 remainder in the back. If anyone wants a copy,
- 15 certainly contact the Board.
- MR. HARRINGTON: Would you like
- 17 copies handed out now?
- 18 THE HEARING OFFICER: At least give
- 19 it to us.

- DR. DiPIETRE: The appendix is
- 21 primarily the estimate -- the detail estimates from
- 22 which the summaries are given in the report.
- 23 So in conclusion, it's important to say
- 24 that the swine industry is large in Illinois, but

- 1 declining. It's a basic industry which creates a
- 2 wealth. And as it declines, it saps wealth from
- 3 Illinois. It's dramatically interrelated to other
- 4 segments of the economy. And so as it either
- 5 expands or contracts, it either increases those
- 6 industries to which it's related or it contracts
- 7 them by stopping purchases.
- 8 The latest report of the economic impact
- 9 or importance of the Illinois pork industry of
- 10 Illinois is being conducted again and updated by
- 11 Lawrence and Otto. It will be available in a
- 12 couple of weeks. The report -- their statistics,
- 13 which I read, are part of a report produced in
- 14 1992.
- 15 THE HEARING OFFICER: Dr. DiPietre,
- 16 do you have a copy of that report, or would you
- 17 like to submit that into evidence?
- DR. DiPIETRE: I can provide that to
- 19 you or the Illinois Pork Producers Association
- 20 could. I have a couple of tables that I've taken
- 21 from it that are part of the appendix, which is
- 22 just now being given to you.

- 23 MR. TABER: Are you referring to the
- 24 1992 report, or the one that will be out in a

- 1 couple of weeks?
- THE HEARING OFFICER: 1992 report.
- 3 MR. TABER: The 1992, we will submit
- 4 it to the Board.
- 5 THE HEARING OFFICER: The two graphs
- 6 that you have there, then, they are both included
- 7 in that report? Is that where you received those
- 8 graphs? I know you read the statistics on the
- 9 second, employment statistics. However, the first
- 10 one, the size of the herd and number of farms, is
- 11 that taken from --
- DR. DiPIETRE: Those come from the
- 13 USDA hogs and pigs report.
- 14 THE HEARING OFFICER: Okay. And
- 15 would you like to submit his testimony into
- 16 evidence so that we can also have his chart?
- 17 MR. HARRINGTON: Yes. Move for the
- 18 admission of the testimony and the appendices as an
- 19 exhibit.
- Okay. Do you have a clean copy of his
- 21 testimony?
- MR. TABER: Certainly.
- 23 THE HEARING OFFICER: Let the record
- 24 reflect that Dr. DiPietre's testimony and

1 appendices have been marked as Exhibit No. 26 and

- 2 entered into the record.
- 3 Thank you, Dr. DiPietre. Are there any
- 4 questions for Dr. DiPietre right now?
- 5 MR. KING: I have a question.
- THE HEARING OFFICER: Yes.
- 7 MR. KING: Dr. DiPietre, my name is
- 8 Brent King, and I have a question for you.
- 9 As one of the leading experts in
- 10 economics in agriculture in the United States, the
- 11 person with a question that I'm just burning to ask
- 12 you here is that we see that you've told us that we
- 13 see an increase in the growth of larger farms and a
- 14 decrease in the number of smaller farms. Is that
- 15 correct?
- 16 Well, could you explain to us how that
- 17 these larger farms are running these small farmers
- 18 out of business?
- DR. DiPIETRE: I think that
- 20 characterization can't be sustained by the
- 21 information that we have. The trend that we see in
- 22 the consolidation of farms from almost 900,000 in
- 23 1970 down to about 160,000 today is really the
- 24 result of retirement and attrition and

- 2 farms running smaller ones out.
- In fact, we have only really seen the
- 4 emergence of large-scale specialized pork
- 5 production in the last 10 to 12 years. And if you
- 6 examine the annual price of pork, or price paid to
- 7 producers for pigs since 1990, we have had three of
- 8 the highest price years on record occur in the last
- 9 six years. So you can't paint a picture of
- 10 unfortunately large farms growing gradually,
- 11 lowering or producing the lower price and driving
- 12 out smaller producers.
- 13 More likely scenario in this
- 14 consolidation has been that swine production grew
- 15 up in Illinois and the rest of the United States
- organized as a few pigs on a diversified farming
- 17 operation. Those farming operations were very
- 18 small and did not support the level of income that
- 19 young people found comparable to what they could
- 20 obtain by going to the University of Illinois or
- 21 University of Missouri and taking jobs in either
- 22 related agricultural sectors or other places.
- 23 So we have an average age of producers
- 24 growing in the 50s, mid-50s, in Missouri. I

- 1 suspect in Illinois. And these producers retire
- 2 and are leaving the smaller farms, which are not
- 3 able to support young people in a comparable way
- 4 with their other opportunities.

- 5 So it's very difficult to construct a
- 6 scenario which suggests that large producers have
- 7 driven smaller ones out.
- 8 THE HEARING OFFICER: Thank you.
- 9 Any other questions for Dr. DiPietre?
- 10 MR. TABER: I have one clarifying
- 11 question. Dr. DiPietre, can you give us a basic
- 12 rundown of your education and your current
- 13 position?
- DR. DiPIETRE: Yes. I have a
- 15 bachelors and masters degree in agricultural
- 16 economics from the University of Arkansas. I have
- 17 a Ph.D. in economics from Iowa State University.
- 18 And since 1991, I've been the leader of the
- 19 extension commercial agriculture swine focus team
- 20 at the University of Missouri. That team includes
- 21 a veterinarian and two engineers, and we work
- 22 exclusively with the swine producer and the
- 23 swine-related industry in Missouri.
- MR. TABER: Thank you.

- 1 MR. KING: One follow-up question.
- 2 Again, I'm Brent King. One more question.
- 3 You said that as the -- at some point a
- 4 farm is not big enough to sustain the people who
- 5 run the farm with a reasonable standard of living.
- 6 In your best estimation, what size farm
- 7 is it that can support a small family or a farmer

- 8 and his wife?
- 9 DR. DiPIETRE: Well, that's
- 10 difficult to judge, because we have to watch people
- 11 make those decisions. But what we have seen is
- 12 that -- well, at the University of Missouri, same
- 13 probably at the University of Illinois, is that
- 14 young people are choosing opportunities other than
- 15 the farm, which currently with the bachelor's
- 16 degree are offering \$30,000 income out of
- 17 graduation, with -- typically with benefits paid,
- 18 couple of weeks vacation perhaps, and the potential
- 19 to grow that income over time.
- 20 So it's not clear that they are making
- 21 the judgment or the decision only on the basis of
- 22 that income difference. There may be other things
- 23 that go into that. But --
- 24 THE HEARING OFFICER: Thank you,

- 1 Dr. DiPietre. Are there any other questions?
- 2 Yes. I'm sorry. Could you just then come up to
- 3 the front like we said?
- 4 MR. REEDER: My name is Donald
- 5 Reeder. I'm a pork producer from Warren County.
- 6 You've talked about the effect of the swine
- 7 industry on economics.
- 8 How does this swine industry affect the
- 9 price of corn and soybeans in Illinois?
- DR. DiPIETRE: As we mentioned, the

- 11 swine production -- the largest, single cost of
- 12 swine production is the feed. So say to producing
- 13 the animal, farrow to finish. And corn is the
- 14 largest, single portion of that feed ingredient.
- 15 Now, we do operate in both a national and
- 16 global economy with the sales of products like corn
- 17 and soybeans. But swine create a demand, a very
- 18 strong demand, for those feed ingredients and add
- 19 to -- added demand adds to the price of those
- 20 products.
- 21 Illinois has the advantage of being on
- 22 the Mississippi River, a major conduit to export
- 23 market. So those production areas for corn and
- 24 soybeans which are close to the river enjoy

- 1 relatively high prices, because of the demand in
- 2 the export markets that pulls that corn down the
- 3 river and out of this country. But once you move
- 4 out back into Illinois away from the river, all the
- 5 corn that you see as you go down the road, or 99
- 6 percent of it, is not consumed directly by humans.
- 7 It's consumed by livestock. So if it is less and
- 8 less to consume -- consume the corn, there will be
- 9 less local demand for it.
- 10 THE HEARING OFFICER: Thank you.
- WOMAN AUDIENCE MEMBER:
- 12 Dr. DiPietre, my question to you is -- I have down
- 13 to prove this. Why did North Carolina lose such a

- 14 large amount of Pork Producers in the last ten
- 15 years when, in fact, in Nebraska where there are
- 16 tough, anti-corporate farming laws, essentially the
- 17 number of producers, small independent producers,
- 18 remained the same?
- 19 DR. DiPIETRE: When we look at the
- 20 historical data of North Carolina compared to
- 21 Nebraska, what you find is from starting at about
- 22 1980, Nebraska had a much larger distribution of
- 23 its swine farms on medium-sized operations or
- 24 larger. So in other words, it didn't start in the

- 1 same place in 1980 that North Carolina did, with
- 2 roughly 90 percent of North Carolina's production
- 3 on farms that had -- or 90 percent of the farms in
- 4 North Carolina having an inventory of less than 100
- 5 head.
- 6 So if you look at the -- at the
- 7 demographics over time, what you find is Nebraska
- 8 went through the same changes. It just simply lost
- 9 its smaller producers much earlier. And North
- 10 Carolina held on to small producers longer. And
- 11 the reduction that you see and the number of
- 12 operations in North Carolina between '80 and the
- 13 present, which is very substantial, primarily 80 to
- 14 90 percent, comes from the smallest size category,
- 15 the less than 100 head inventory. And the USDA
- 16 estimate of the average inventory for those farms

- 17 is about 1700.
- 18 WOMAN AUDIENCE MEMBER: Where can I
- 19 find data to prove that?
- DR. DiPIETRE: USDA hogs and pigs
- 21 report for each year.
- 22 WOMAN AUDIENCE MEMBER: Thank you.
- 23 THE HEARING OFFICER: Any other
- 24 questions of DiPietre? Could you come forward?

- 1 MS. LEONARD: Del Leonard. My
- 2 question is: Is there any difference in the
- 3 economic impact of a locally owned and managed farm
- 4 versus one that is under contract to an
- 5 out-of-state corporation that supplies the hogs,
- 6 feed and the vet services, versus an out-of-state
- 7 corporation who owns and manages the operation, and
- 8 which is the best for the economy?
- 9 DR. DiPIETRE: There are differences
- 10 in the purchasing patterns. Larger operations are
- 11 operations which are either specialized or owned
- 12 locally versus owned, say, by operations in another
- 13 state. It's not necessarily easy to characterize
- 14 exactly what they would be, except to say that
- 15 normally feed, which is the greatest single cost of
- 16 production, cannot be transported economically very
- 17 far once it has been produced. So where pigs are
- 18 being fed, they are going to tend to buy their feed
- 19 locally.

- Now, their professional services, if they
- 21 are complex or sophisticated and beyond the
- 22 availability of the local economy to provide, they
- 23 may reach out farther to get those in place.
- So it would be expected that as farms,

- 1 whether they are professional family farms or ones
- 2 owned by corporate entities, as they become more
- 3 sophisticated and specialized, they often have to
- 4 reach out farther than the local community to get
- 5 the kind of specialized inputs that are necessary
- 6 for their production.
- 7 Feed, however, again because of the
- 8 economics of transporting it, we try to move it
- 9 once it's produced only no more than about 50 or 60
- 10 miles. Keep in mind, too, even though it's
- 11 important in many ways to talk about local
- 12 purchasing and the importance of local purchasing,
- 13 local suppliers must change over time and adapt to
- 14 the changing conditions of their economy.
- 15 So we don't want to start with the
- 16 proposition that anything which comes in which puts
- 17 pressure on local suppliers to either become more
- 18 sophisticated, to become more specialized and so on
- 19 is necessarily bad. That happens every day.
- 20 As Radio Shack stores, for instance,
- 21 added a computer line once computers came on. If
- 22 they would have stayed only with gadgets and things

- 23 like that, they wouldn't have been nearly as
- 24 successful.

- 1 So the changing economy, even at the
- 2 local level, has to respond to the changing local
- 3 needs.
- 4 And keep in mind, lastly, that in order
- 5 to create wealth in an area, we have to have trade
- 6 with an outside area. Otherwise, you are only
- 7 circulating local dollars. For instance, a local
- 8 community that provided all the feed, had its own
- 9 slaughterhouse, and all the pigs are -- were
- 10 consumed locally, is just circulating dollars
- 11 within the local community. And never be any room
- 12 for expansion or for young people.
- 13 For instance, if somebody had five sons
- 14 and daughters, and all of them wanted to come back
- 15 to the farm, it was just a circulation of existing
- 16 wealth, they would have to split that up into
- 17 smaller and smaller pieces, which may not be
- 18 sustainable for them.
- 19 So trade outside the region is not
- 20 necessariliy bad even for the local community,
- 21 since it does bring in wealth.
- 22 THE HEARING OFFICER: Thank you,
- 23 Dr. DiPietre. Yes. Could you come forward?
- MR. ST JOHN: Phil St John.

- Dr. DiPietre, in your testimony there,
- 2 you quoted statistics that talked about the
- 3 distribution of Illinois producers by size and
- 4 location and size of heard. This is page four on
- 5 your testimony.
- DR. DiPIETRE: Yes.
- 7 MR. ST. JOHN: My question -- I have
- 8 a couple of questions. But my question is: For
- 9 example, it says 2,000 head and up. Is that at one
- 10 time, or is that an annual figure of production?
- DR. DiPIETRE: That is inventory.
- 12 Not annual sales. So that's in inventory on the
- 13 farm at any one time during the year.
- MR. ST JOHN: Okay. 2,000 head,
- 15 does it mean animals and does not mean animal
- 16 units?
- DR. DiPIETRE: That's right. It
- 18 means physical animals, where an individual feeder
- 19 pig is counted the same as a bore or sow.
- 20 MR. ST JOHN: Well, is there --
- 21 okay. Define head in inventory, not animal units
- 22 in inventory. For example, 2,000 and up, it says
- 23 470 farms out of 10,570 farms.
- 24 So am I correct then in my math that

- DR. DiPIETRE: According to the
- 3 USDA, yes.
- 4 MR. ST JOHN: That would be a
- 5 correct figure, you assume --
- DR. DiPIETRE: Yes.
- 7 MR. ST JOHN: -- in inventory in
- 8 Illinois.
- 9 DR. DiPIETRE: Yes. Yes.
- 10 THE HEARING OFFICER: Thank you.
- DR. DiPIETRE: It's very important
- 12 to get that definition correct. And many people
- 13 misunderstand it. But the USDA does not report the
- 14 number of hog operations, which is the way most
- 15 people mischaracterize it.
- 16 They are -- an operation, as it's
- 17 reported by the USDA in these figures, is any
- 18 location which has at least one pig in inventory at
- 19 any one time during the year. So someone who lived
- 20 in the country on ten acres and a son or daughter,
- 21 bought a show pig for a 4-H project, if they -- if
- 22 the USDA enumerated it, happened to touch that
- 23 farm, that would be considered a so-called hog
- 24 operation. Then when that pig went to the fair and

- 1 on to slaughter, you know, we could have -- we
- 2 could have someone saying, well, we lost another
- 3 hog farm. They were misusing the data. You have
- 4 to be very careful about how we understand the USDA

- 5 definition.
- 6 MR. FLEMAL: Dr. DiPietre, a further
- 7 clarification on that. Is it possible that one
- 8 farm could have more than one herd?
- 9 DR. DiPIETRE: Yes. Not completely
- 10 sure from the USDA how they handle this, except
- 11 if -- if the farms are not continuous, in other
- 12 words if a particular owner had a farm 30 miles
- 13 away and another one at the homestead, separate
- 14 locations, and the enumerated estimated, those --
- 15 both of them could show up, even though owned by
- 16 the same person, as two farms.
- 17 MR. FLEMAL: Thank you.
- 18 THE HEARING OFFICER: Thank you.
- DR. DiPIETRE: Even, for instance,
- 20 if that second farm received animals from the first
- 21 one, all a continuous part of a production process,
- 22 may be labeled as two operations, since locations
- 23 are what is counted.
- MR. BEORKREM: Mark Beorkrem from

- 1 Knox County.
- 2 Doctor, you have considerable economic
- 3 experience with the ag industry. My question is:
- 4 If Illinois is one of the top feed grain producing
- 5 states in the country and we know that these
- 6 livestock operations are going to center themselves
- 7 where that feed grain is available, do we expect to

- 8 see much variation between the top five states, for
- 9 example, in livestock production because of this
- 10 tie into the feed grains availability?
- 11 And would we expect -- if Illinois chose
- 12 to put in, say, greater restrictions, environmental
- 13 restrictions on livestock operations than, say,
- 14 North Carolina does, would we expect to see a wide
- 15 divergence in movement or establishment of
- 16 livestock operations in mega hog operations because
- 17 of more restrictive environmental regulations, but
- 18 also of greater availability of grain feeds?
- DR. DiPIETRE: That's a very
- 20 important question. Of course, it depends greatly
- 21 on the level of restriction and setback that
- 22 Illinois chooses within the next five years to
- 23 either add or to not add.
- 24 There is a trade-off between especially

- 1 unstable environmental legislation and where both
- 2 the professional family farm and large corporate
- 3 farms are choosing to locate. For instance, I
- 4 think in my experience in working with the decision
- 5 makers in this area, if the legislation is strong
- 6 but stable, that can represent a much more
- 7 favorable investment to climate than one which is
- 8 incremental. In other words, we have a certain set
- 9 of legislation today and increment it next year, or
- 10 more severe, or add additional burdens later, then

- 11 that unknown set of increasing restrictions makes
- 12 it an unstable environment. And those can outweigh
- 13 the feed cost advantages that you just mentioned.
- 14 So we do see examples of some of the
- 15 largest farms in the nation choosing to feed
- 16 deficit areas for their production because they
- 17 believe that even though they are going to pay
- 18 for -- more for feed over time, they have a more
- 19 stable investment climate and can potentially
- 20 offset those disadvantages with feed with either
- 21 lower building costs or better growth rates of
- 22 animals than, say, the dry southwest, where low
- 23 humidities work with -- favorably with the animals,
- 24 and no extreme temperatures, and less

- 1 incrementally -- sort of incrementally
- 2 environmental legislation.
- 3 Right now, both for the Illinois family
- 4 farm of the future and for others who want to
- 5 produce pigs, corporate or otherwise, states like
- 6 Illinois represent a stronger attraction.
- 7 So-called corn belt and fringe corn belt states
- 8 have the advantage of being close to low cost feed
- 9 supplies close to the existing packing
- 10 infrastructure. So we have competitive backing
- 11 possibility and actually infrastructure in place.
- 12 And more importantly than that, you have
- 13 the ability because of the intense cropping that

- 14 takes place in this state to effectively utilize
- 15 the manure nutrients.
- 16 So for -- I understand even though it may
- 17 be permitted by law to locate a large swine farm in
- 18 Wyoming and with very loose environmental
- 19 restrictions, the long run impact of that may be
- 20 perilous, because there isn't much cropping that
- 21 takes place there. And so the waste simply has to
- 22 build up or not be used in a sustainable fashion.
- 23 So all those factors conspire to make
- 24 Illinois a subject of intense interest both by its

- 1 own production family farms and by others. But the
- 2 trade-off could eventually be such that those
- 3 benefits here are viewed as to that's a too risky
- 4 environment to take on.
- 5 THE HEARING OFFICER: Thank you,
- 6 Dr. DiPietre. Yes.
- 7 DR. ST JOHN: Dr. DiPietre, Bruce
- 8 St John is my name. Illinois Citizens for
- 9 Responsible Practices.
- 10 I have some difficulty with your
- 11 characterization of the large-scale livestock
- 12 producer following a pattern of purchasing feed
- 13 locally. And where I come from most recently is an
- 14 article which was published this month in the
- 15 Federal Reserve Bank of Chicago, which I'm going to
- 16 introduce later as evidence entitled,

- 17 Industrialization in Hog Production, Implications
- 18 for Midwest Agriculture, by Gary Benjamin.
- 19 He says that the evidence where
- 20 industrialization is occurring surfaces in a
- 21 comparison hog inventory changes over the last five
- 22 years. From December of 1990 to December of 1995,
- 23 hog numbers nationwide rose nearly 11 percent. All
- of that growth came in seven states. The seven

- 1 states he identifies where the growth was centered
- 2 were Missouri, North Carolina, Colorado,
- 3 Mississippi, Oklahoma, Utah and Wyoming.
- I guess the question I have is: Why --
- 5 if this process is attractive to where the feed is
- 6 grown, why would we have not seen that growth in
- 7 Iowa, Illinois, Indiana and Ohio?
- 8 DR. DiPIETRE: Well, there are a
- 9 couple of things there. One, there have been --
- 10 there has been tremendous growth in Iowa. There
- 11 has just also been tremendous attrition. So the
- 12 net effect has been that the sow numbers and
- 13 inventory numbers are going down.
- 14 The reason why you're seeing growth in
- 15 those so-called fringe areas in the states that you
- 16 just mentioned are that -- the same that we just
- 17 spoke about here. Most -- most of that growth --
- 18 keep in mind two things. One, since Utah had
- 19 almost no pig production, when you add a few

- 20 thousand sows, it gets a lot of attention, when you
- 21 are looking at a percentage change basis.
- 22 So some of these are tremendous
- 23 percentage changes in growth, but they don't
- 24 represent that many total animals. The same with

- 1 Oklahoma and some of the other ones. So when you
- 2 see growth represented as a percentage change, that
- 3 can look spectacular, when you have almost nothing
- 4 there to begin with.
- 5 The second thing is these producers
- 6 are -- that are locating in Utah, for instance, in
- 7 Oklahoma, are targeting an export market, and they
- 8 want to get close to the western coast of the
- 9 United States. And so they are going to be
- 10 marketing Japan and pacific rim nations with
- 11 export.
- 12 And so the other states, it's really a
- 13 question of the local political climate and
- 14 decision of area producers.
- 15 THE HEARING OFFICER: Thank you,
- 16 Dr. DiPietre. Mr. Harrington.
- 17 MR. HARRINGTON: I just have a
- 18 couple of follow-up questions for the record.
- 19 Calling your attention to your appendix.
- 20 I just want to make sure the record is clear as to
- 21 what each of the pages of the appendix indicate.
- DR. DiPIETRE: Unfortunately, each

- 23 page is not labeled, so you may have to describe it
- 24 to me.

- 1 MR. HARRINGTON: Okay. The first
- 2 page I have, and I believe the way it's been
- 3 presented to the Board, starts 1,000 farrow-finish,
- 4 increased community and regional direct impacts,
- 5 slash, year.
- DR. DiPIETRE: Yes.
- 7 MR. HARRINGTON: Did you prepare
- 8 that?
- 9 DR. DiPIETRE: Yes, I did.
- 10 MR. HARRINGTON: And is -- you are
- 11 saying each unit of 1,000. 1,000, is that total
- 12 animals, or is that --
- DR. DiPIETRE: This is 1,000 sows of
- 14 production.
- MR. HARRINGTON: So each 1,000
- 16 farrow-finish unit would have a result in purchases
- of \$1,170,000; is that correct? Am I reading this
- 18 correctly?
- DR. DiPIETRE: Okay. What you are
- 20 reading there, that's correct, it would have an
- 21 average. Approximately that amount of feed
- 22 purchases per year.
- 23 Keep in mind, some years feed costs more,
- 24 corn costs less. So this is based on ten-year

- 1 historical prices and an average to a slightly
- 2 better than average feed efficiency for the state.
- 3 MR. HARRINGTON: And that would
- 4 include feed transfers on a mixed farm grain to
- 5 grain and hog farm where the grain was consumed on
- 6 the farm itself?
- 7 DR. DiPIETRE: That's right. Wasn't
- 8 directly purchased within the operation. It would
- 9 be the value of it.
- 10 MR. HARRINGTON: The next page I
- 11 have is 1,000 additional sows, slash,
- 12 farrow-to-finish production, increased community
- 13 and regional direct impact, slash, year, estimated
- 14 annual non-feed purchases.
- DR. DiPIETRE: Yes.
- MR. HARRINGTON: Now, that -- was
- 17 this page also prepared by you?
- DR. DiPIETRE: Yes, it was.
- MR. HARRINGTON: Am I correct that
- 20 it indicates additional purchases of non-feed at
- 21 \$455,400?
- DR. DiPIETRE: Per year. Also keep
- 23 in mind, this represents the purchases probably on
- 24 a level of performance that is higher than the

- 2 Probably in Illinois, this does not
- 3 represent an actual sample or Illinois purchases,
- 4 but an estimate which is drawn from production
- 5 scheme, which is probably a little more efficient
- 6 than Illinois. Meaning that, if anything, these
- 7 underestimate these purchases on an annual basis.
- 8 MR. HARRINGTON: Okay. Next page I
- 9 have is job creation, slash, 100 FTE swine.
- DR. DiPIETRE: Yes.
- 11 MR. HARRINGTON: Can you explain
- 12 what this page represents?
- DR. DiPIETRE: This is a sample of
- 14 interrelatedness of the swine industry to the rest
- 15 of the economy. And what it suggests is that for
- 16 every 100 full-time equivalent jobs on the farm
- 17 producing swine, that production creates the
- 18 following. The table lists the number of full-time
- 19 equivalent jobs in these other related industries
- 20 to support that production.
- 21 For instance, if the swine industry in
- 22 Illinois would lose in production the equivalent of
- 23 100 full-time jobs, you would expect the economy in
- 24 Illinois to contract not just by the amount of

- 1 those farm workers, but unless there was an
- 2 increase somewhere else that allowed them to be
- 3 retained, all of the work force that's illustrated
- 4 in this table would also be lost.

- 5 MR. HARRINGTON: Okay. The next
- 6 page is a 1,000 sow farrow-to-feeder pigs,
- 7 increased community in regional indirect impacts,
- 8 slash, year.
- 9 Was this table also prepared by you?
- DR. DiPIETRE: Yes, it was.
- MR. HARRINGTON: And could you
- 12 explain this table briefly?
- DR. DiPIETRE: This is a table which
- 14 shows -- it's meant to show, again, the tremendous
- 15 interrelatedness of pig production to the rest of
- 16 the economy. So using a well-accepted technique
- 17 referred to as input-output analysis, we are able
- 18 to trace purchase linkages down into all the rest
- 19 of the economy and show, for example, the amount of
- 20 annual indirect purchases which are created
- 21 throughout all the rest of the sectors of the
- 22 economy for every 1,000 sows, farrow-to-feeder
- 23 pigs, in this case, production in Illinois.
- MR. HARRINGTON: That number is

- 1 386,998?
- DR. DiPIETRE: Right.
- 3 MR. HARRINGTON: And the last page
- 4 has two tables, economic effects of Illinois pork
- 5 industry to the farm level, direct and indirect
- 6 impacts; economic effects of the Illinois pork
- 7 industry to the processing level, direct and

- 8 indirect impacts.
- 9 This is taken from the Lawrence and Otto
- 10 economic impact of swine production, 1994 study.
- DR. DiPIETRE: Yes. Let me give a
- 12 more precise reference to that, because we were
- 13 under a time deadline for the submission of these
- 14 materials, and I gave it my best shot. The actual
- 15 title of this publication is, economic importance
- 16 of the Illinois pork industry. And the date is
- 17 actually 1992.
- 18 And again, as I previously mentioned,
- 19 that has been updated to 1995 data. But it's not
- 20 quite off the press. Or if it is, it's not readily
- 21 available for the next two weeks.
- 22 MR. HARRINGTON: And perhaps looking
- 23 at the top table, it says, employment, number of
- 24 jobs. And at the bottom, what does that total

- 1 represent? Can you read the number for us, and
- 2 also explain what that represents?
- 3 DR. DiPIETRE: This is the work of
- 4 John Lawrence and Dan Otto using input-output
- 5 analysis. And they have showed a more summarized
- 6 list than I had shown in my appendix. For
- 7 instance, they show -- if you look at swine
- 8 production, only the impact through the production
- 9 level on the farm. That's the top data. That pork
- 10 production itself on the farm creates about a

- 11 billion dollars. That's the first column in total
- 12 industry output. And then to the jobs, about
- 13 500 -- 5,151. Then if you see its impact, direct
- 14 and indirect, effect on the other industries as
- 15 they have been aggregated here, mining,
- 16 construction, manufacturing.
- 17 The activity in the pork production
- 18 sector stimulates and creates output income and
- 19 employment in all those other sectors. So that the
- 20 total impact of farm level swine production in
- 21 Illinois, by their estimates, in 1992 was the 5,100
- 22 on the farm. And counting all the others, that it
- 23 stimulates 15,000 jobs Illinois-wide.
- Now, these models do specifically account

- 1 for the effect of outside -- any jobs where people
- 2 come over from St. Louis or Missouri, they are
- 3 included in this. The model accounts for shifts
- 4 across borders of the state.
- 5 MR. HARRINGTON: Thank you. That's
- 6 all on this.
- 7 One other follow-up question. If
- 8 Illinois, through setback rules or some other
- 9 rules, effectively prevented the out-of-state
- 10 corporate farmers from locating in this state, do
- 11 you believe that that would in any way result in a
- 12 reduction in total number of such farming
- 13 operations in the United States?

- DR. DiPIETRE: Total number of the
- 15 corporate operations?
- MR. HARRINGTON: Corporate
- 17 operations.
- DR. DiPIETRE: It's difficult to
- 19 say. I would expect that it can be said to date
- 20 that the largest producers in the United States
- 21 have not been able to expand at the rate that they
- 22 have wanted to expand, because of instability and
- 23 changing legislation in different states.
- 24 So whether in the long run they would be

- 1 able to locate and expand in other areas, my best
- 2 guess is that the industry will reshape itself
- 3 according to economics, according to over time.
- 4 But in the short run where those -- where that
- 5 expansion takes place and where it gets laid in can
- 6 be affected by states. So it can be slowed up, but
- 7 probably not in the long run changed.
- 8 MR. HARRINGTON: Thank you.
- 9 THE HEARING OFFICER: Chairman
- 10 Manning.
- MS. MANNING: I have a couple of
- 12 clarifying questions, if I might. First of all,
- 13 the testimony I understand that you are giving is
- 14 being offered today for a generalized Board
- 15 knowledge of the economic value of livestock
- 16 industry in Illinois. You have not done a specific

- 17 analysis of the proposed regulations presented to
- 18 us by the Department of Ag. Is that correct?
- DR. DiPIETRE: That is correct.
- MS. MANNING: Thank you. The other
- 21 question I had is a number of times in your answers
- 22 to your questions you referred to the words family
- 23 farm.
- DR. DiPIETRE: Yes.

- 1 MS. MANNING: We have had
- 2 discussions in other hearings, you know, as to a
- 3 definition of the words family farm.
- I would assume you've given that some
- 5 thought before you used that terminology, and I
- 6 would like you to tell us how you would consider a
- 7 definition of the words family farm when you use
- 8 them.
- 9 DR. DiPIETRE: When I use the words
- 10 family farm, I'm normally thinking of a farm which
- 11 primarily gains its direction, not necessarily its
- 12 management, since a family can hire external
- 13 management into the farm, but a farm which has
- 14 arisen out of a family operation. I don't think it
- 15 has much to do with size necessarily. But arose
- 16 out of a family operation, and that the family
- 17 still owns it or owns a majority share in it, and
- 18 that they are active in some way in the overall
- 19 management and guidance of the farm, and that they

- 20 receive their livelihood from it.
- 21 MR. FLEMAL: Can you identify one
- 22 characteristic that identified a family farm from
- 23 two or from some other entity or two or three?
- DR. DiPIETRE: I'm kind of quoting

- 1 the farm law in Missouri when I just mentioned
- 2 that, since we do distinguish family farms which
- 3 are allowed to produce, versus non-family
- 4 operations. So the criteria that I just mentioned
- 5 were close to the Missouri statute, which is -- I
- 6 think, is fair.
- 7 The -- I think you have to be pretty
- 8 careful, because in -- many people want to talk
- 9 about the family farm as relatively small family
- 10 run without any hired labor and that sort of
- 11 thing. And you can point to Illinois to say that
- 12 some of the largest professional family farms in
- 13 the nation exist here. So it has nothing to do
- 14 with size or complexity. It has more to do with, I
- 15 think, the origin of the farm, that it came up out
- 16 of a family operation tied to the land, and that
- 17 the family still maintains it for its source of
- 18 income and maintains managerial control. Maybe not
- 19 exclusive, since when it becomes large and complex,
- 20 they hire on additional people. But given an
- 21 overriding sense to its management, maintain their
- 22 income from it, and it arose out of a family

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23 operation. A small family operation typically.
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24 THE HEARING OFFICER: Thank you.

- 1 MR. FLEMAL: I assume then from your
- 2 answer there is no single easy identification of a
- 3 family farm versus an entity other than the family
- 4 farm.
- DR. DiPIETRE: Well, it's one of
- 6 those things that doesn't draw a clear border,
- 7 except you can only point to it and say, this is
- 8 not a family farm, and this is. Actually trying to
- 9 get your arms around it sometimes is difficult.
- 10 For instance, if a corporate entity buys
- 11 farmland and hires all people from outside of it
- 12 which are not related in any way, and the corporate
- 13 entity itself is not a hog producer or hog farm,
- 14 but say is a diamond trader, something like that,
- 15 and just diversified into the hog business, I would
- 16 not call that a family farm.
- MS. MANNING: I had another question
- 18 on your employment statistics.
- DR. DiPIETRE: Yes.
- 20 MS. MANNING: Specifically on page
- 21 eight of your testimony, you make the conclusion
- 22 that it is estimated that approximately 5,150 FTE,
- 23 which basically is full-time employees, 5,150
- 24 employees are created annually in Illinois from the

- 1 direct on-farm production of swine.
- 2 I -- I'm interested to know how that
- 3 estimate is derived specifically.
- 4 DR. DiPIETRE: Now that you read
- 5 that, I can see there might be some confusion. It
- 6 doesn't mean that many new ones are created each
- 7 year.
- 8 MS. MANNING: That's what it sounds
- 9 like.
- DR. DiPIETRE: That's a miswording
- 11 unfortunately. The swine industry creates and
- 12 sustains a total of 5,150 full-time equivalents on
- 13 the farm. So it doesn't incrementally mean each
- 14 year that's added to by that amount. It's just if
- 15 you look at the production that takes place in
- 16 Illinois and the number of full-time equivalents
- 17 that produce it, it's about 5,100 full-time jobs.
- MS. MANNING: So what you are
- 19 saying, I think, is if you look at an annual
- 20 picture of how many full-time equivalents are
- 21 resultant from the swine industry in Illinois, you
- 22 come up with the number of 5,150, but you don't
- 23 come up with that every year.
- DR. DiPIETRE: No. Not added each

- 2 that's simply the farm level. If you look at the
- 3 related processing, related industries, like the
- 4 feed businesses that arise to serve them, then the
- 5 number is much larger. But this is simply on-farm
- 6 farm work. And the full-time equivalent definition
- 7 is 2300 hours a year.
- 8 MS. MANNING: And you are not
- 9 claiming that that grows every year.
- 10 DR. DiPIETRE: In fact, in Illinois,
- 11 it's been --
- MS. MANNING: Could be declining.
- DR. DiPIETRE: Very definitely
- 14 declining.
- MS. MANNING: That would have been
- 16 my next question. It was hard to believe it was
- 17 growing at that extent when the industry was
- 18 declining as well.
- DR. DiPIETRE: Thank you for
- 20 bringing that up. That was a poor choice of words.
- 21 THE HEARING OFFICER: Dr. Girard.
- DR. GIRARD: Thank you.
- Dr. DiPietre, I have a question on your
- 24 testimony that since 1993 Illinois has fallen

- 1 behind both Minnesota and North Carolina with
- 2 respect to total swine inventory.
- 3 To your knowledge, what economic factor
- 4 may explain that recent change?

- DR. DiPIETRE: Illinois, for some
- 6 reason, has -- has not stimulated the same growth
- 7 in the last few years that both Minnesota and North
- 8 Carolina have. In North Carolina, it was the
- 9 growth -- much of the growth was stimulated in
- 10 the last ten years. From -- this is sometimes
- 11 overly -- an over characterization, but a lot of
- 12 producers of tobacco in North Carolina, with the
- 13 demise of that industry, decline of that industry,
- 14 have shifted their assets from production of
- 15 tobacco to swine.
- 16 And they chose that, because historically
- 17 swine production has been the single most
- 18 profitable agricultural enterprise besides tobacco
- 19 that could be carried out on a typical Midwestern
- 20 farm.
- 21 Then Minnesota, much of the growth which
- 22 has taken up there is cooperative growth, network
- 23 growth that's occurred. That's a tremendous
- 24 cooperative tradition there. And there is several

- 1 leading veterinary clinics who assemble groups of
- 2 producers and assist them in seeing how they can
- 3 form strategic alliances to grow.
- 4 In Illinois, what we are primarily seeing
- 5 is some of the most famous and long-standing
- 6 producers of pork in the United States live here,
- 7 and they have been expanding and going on. But the

- 8 rest of the industry, in general, has been in a
- 9 retirement attrition and large -- a large-scale
- 10 production not situated here has not tried recently
- 11 to sit, wait here. And I think so far that
- 12 explains -- explains those differences.
- MR. GIRARD: Thank you.
- 14 THE HEARING OFFICER: Excuse me.
- 15 Follow-up.
- 16 MR. GIRARD: If I can just state one
- more, as long we are on this.
- 18 THE HEARING OFFICER: We will get to
- 19 you.
- 20 WOMAN AUDIENCE MEMBER: All right.
- 21 THE HEARING OFFICER: Okay.
- MR. FLEMAL: In your appendix,
- 23 Dr. DiPietre, on page two, you have a table that
- 24 shows your estimates of the estimated non-annual

- 1 feed purchases, and consists of two columns of
- 2 data. The first being a per market hog, and the
- 3 second, total purchases. I note that the two
- 4 columns differ by a factor of 20,000.
- 5 Could you explain for us just for the
- 6 purposes of the record what it is that generates
- 7 that multiplier to get to your second column?
- DR. DiPIETRE: What's being assumed
- 9 by this is that -- that somehow the sow operation
- 10 is producing for sale the equivalent of 20 pigs per

- 11 sow per year, which would be a highly productive
- 12 farm. And Illinois does not average that, as does
- 13 no other state in the union in the United States.
- 14 But this is emerging. New construction
- 15 being built both at the family farm level and the
- 16 corporate level are achieving these results.
- 17 MR. FLEMAL: What is the residence
- 18 time on the farm of that 20 hogs per sow?
- DR. DiPIETRE: Well, they represent
- 20 an annual production, and probably they are
- 21 turned -- the entire inventory is turned about 2.3
- 22 times per year, something like that.
- 23 MR. FLEMAL: Something less than six
- 24 months, five months.

- DR. DiPIETRE: Typically, yes.
- 2 MR. FLEMAL: Are you familiar with
- 3 the animal unit size designation that's involved in
- 4 the statute that we are dealing with today?
- DR. DiPIETRE: I am not as
- 6 conversant with it as an engineer would be, but I
- 7 understand it basically.
- 8 MR. FLEMAL: The concept. Enough so
- 9 to convert for us, if you could, what a thousand
- 10 additional sow, farrow-to-finish, production unit
- 11 would be in terms of animal units?
- DR. DiPIETRE: If I took about 15
- 13 minutes on a calculator. Would you like me to

- 14 submit that as part of an appendix?
- MR. FLEMAL: One of the difficulties
- 16 that we as the Board have had, and perhaps many of
- 17 the people who have been following this, as
- 18 different experts have looked at the magnitude of
- 19 facilities, there has been a tendency to use
- 20 different kinds of ways to estimate that
- 21 magnitude. And it would be nice to get these all
- 22 on the same plain.
- DR. DiPIETRE: Keep in mind, by
- 24 putting this thousand sows in here, I didn't mean

- 1 to imply by that that this is a single operation of
- 2 1,000 sows. It's just the summation of each
- 3 thousand. And that was meant to try to get it on
- 4 some kind of standardized unit that's equivalent to
- 5 the USDA reporting in thousands.
- 6 THE HEARING OFFICER: Okay. Would
- 7 you like to ask your question?
- 8 MS. LEONARD: Okay. Del Leonard. I
- 9 just have another question here.
- 10 Is it true that an out-of-state,
- 11 corporate-owned mega hog operation, most of the
- 12 profits go back to out of state rather than staying
- 13 local?
- 14 Otherwise, you know, how else could these
- 15 corporations survive?
- DR. DiPIETRE: Again, it depends on

- 17 how they distribute or share profits. You know,
- 18 many operations have a profit sharing plan with
- 19 employees. But, of course, if owners live out of
- 20 state and the owner earns profits, then profits go
- 21 to the owner outside of state.
- 22 Whether he chooses to reinvest those
- 23 profits back into the state through additional
- 24 expansion or purchase is up to them and might

- 1 differ in every case.
- MS. LEONARD: Well, generally, the
- 3 out-of-state ones are -- they own everything. It's
- 4 only, you know, the individual farmer or whoever
- 5 who is in whatever state they are coming into who
- 6 supplies, you know, the money for the land,
- 7 supplies the land, the buildings and whatever. But
- 8 it's the out-of-state companies, corporations,
- 9 that, you know, supply the animals, the feed, the
- 10 veterinarians.
- 11 And so consequently, ultimately I would
- 12 say, you know, in order for them to survive and get
- 13 as big as they are getting throughout the country,
- 14 they have to be coming up with, you know, just tons
- of profits, whereas, you know, poor Henry Ha-ha
- 16 down the road here, you know, he is making X amount
- 17 of money. But now the corporations, they say,
- 18 well, now you are going to need more and more and
- 19 more things. So Henry Ha-ha, now his profits are

- 20 starting to diminish, whereas the company,
- 21 corporation, is making more and more.
- Is that true or not?
- DR. DiPIETRE: Well, I think I can
- 24 point you to --

- 1 MS. LEONARD: Yes or no?
- DR. DiPIETRE: I think I can point
- 3 you to some pretty spectacular examples of that.
- 4 Two in our own state. Premium Standard Farms,
- 5 which owns 100,000 sows, is a completely integrated
- 6 operation. Had spectacular losses of money. And
- 7 so there is sort of a demagogic kind of statement
- 8 that's made in Missouri, that the pork from Premium
- 9 Standard went to Japan, and the profits went to
- 10 Wall Street, and they left us with the manure.
- 11 But unfortunately, they didn't make any
- 12 profits, so no profits went to Wall Street. In
- 13 fact, they made 500 million dollars investment in
- 14 the state of Missouri and hired almost 2,000
- 15 employees throughout their whole operation. And
- 16 the people who held their debt, when they went
- 17 through bankruptcy recently, got equity shares
- 18 instead of payment.
- Now, the other example would be, I think,
- 20 Tyson Foods, who is spectacularly successful in
- 21 Poultry, has been much less successful in the swine
- 22 business. In fact, bought, and now has sold, the

- 23 only remaining large packing plant in Missouri, as
- 24 well as has sold all their pork processing division

- 1 and their beef processing recently.
- 2 So I fight this characterization a lot,
- 3 that large producers automatically are profitable,
- 4 first of all, or that they automatically drain
- 5 profitability from the state. Because almost all
- 6 of them, except Premium Standard Farm, operate in
- 7 strategic alliance with producers of the state.
- 8 So as you mentioned, when they build an
- 9 operation, they typically own the animals, but
- 10 local people own the buildings, the land, the
- 11 infrastructure, which the building of those new
- 12 buildings stimulates the local economy. The
- 13 payment for those buildings and the profit for
- 14 those buildings created for the owners are local
- 15 people receiving profits. And even though feed
- 16 grains may be transported easily by rail, at least
- 17 between states, they are normally not economical to
- 18 transfer, once it's been ground, more than 50 or 60
- 19 miles.
- 20 So either corporate local mills, which
- 21 earn profits, or build their own mill and hire
- 22 local people. It's pretty hard to buy farm trucks
- 23 in North Carolina and bring them to Illinois. They
- 24 will almost always, for instance, buy from local

- 1 dealers, that sort of thing. So it's -- you have
- 2 to be a little bit careful how you characterize
- 3 that. But, yes, any profit that they earn, if they
- 4 live in another state, would probably go back to
- 5 them. What they do with that and whether they
- 6 reinvest it is another question.
- 7 And it's a mischaracterization to suggest
- 8 that all the profit they earn is earned by the
- 9 owner of the pigs only. That all the interrelated
- 10 industry produce profit also, as well as the
- 11 producer who owns the buildings.
- 12 THE HEARING OFFICER: Ms. Leonard,
- do you have a follow-up question?
- MS. LEONARD: No.
- 15 THE HEARING OFFICER: Okay. Thank
- 16 you.
- 17 MS. LEONARD: Yes.
- MS. KUCK: My name is Mary Kuck.
- 19 And Dr. DiPietre, you speak of 5,150
- 20 jobs. I'd like to know where on the economic scale
- 21 are these jobs located?
- 22 Are they, pardon me, well-paying jobs, or
- 23 are they minimum wage jobs?
- 24 What percentage of each and what is

- DR. DiPIETRE: Those are excellent
- 3 questions. To clarify again, the jobs that are
- 4 reported in my piece, they are calculated, they are
- 5 primarily the on-farm farmer owners jobs. In other
- 6 words, the 5,150 jobs are the existing jobs in
- 7 Illinois produced on farms to create pigs. So
- 8 Henry Ha-ha, if he produces pigs, that's his job,
- 9 as well as everybody else.
- 10 So these are not jobs created by a
- 11 corporate entity. By far and away, most of the
- 12 pigs -- the vast majority of the pigs produced in
- 13 Illinois are produced by family operations of
- 14 various sizes, and they are these jobs I'm speaking
- 15 of here.
- Now, your question may be, if a corporate
- 17 entity moves in, what kind of jobs did they create
- 18 and what are their pay scales. And I can provide
- 19 for the committee a detailed analysis of that in
- 20 Missouri. I have not done it for Illinois.
- 21 But if you look at Premium Standard
- 22 Farms, for instance, that we just mentioned in
- 23 Missouri. They located in a five county area of
- 24 Missouri, which was extremely depressed. In that

- 1 five county area, 30 percent of the households had
- 2 a household income below \$10,000 a year. Their
- 3 minimum job, which was a power washer job, paid
- 4 \$13,000 a year, plus profit sharing, which is --

- 5 has gone as high as \$6,000 a year, in the one year
- 6 that they had profits. The job, though, also
- 7 includes full medical and dental benefits and a
- 8 retirement plan. And 13,000. Their average
- 9 salary, overall positions, that includes
- 10 management, is about \$20,000 a year, which includes
- 11 these power washers, as well as everybody up
- 12 through the packing plant and so on.
- 13 WOMAN AUDIENCE MEMBER: Madam
- 14 chairman, I thought we were here for the Livestock
- 15 Management Facilities Act, to talk about that.
- THE HEARING OFFICER: Yes, we are.
- MS. MANNING: We are -- we are just
- 18 letting everyone ask the questions that they have.
- 19 THE HEARING OFFICER: Yes. If you
- 20 could please stand up front.
- 21 MR. WILSON: My name is Steve
- 22 Wilson. I just have a question of clarification.
- 23 In your written testimony it says that
- 24 Illinois has went from second to fourth in rank.

- 1 But today whenever you address that, you said that
- 2 we have fallen behind because we haven't expanded
- 3 as rapidly as other states.
- 4 Is Illinois declining or increasing pork
- 5 production? Just Illinois itself. Which is that?
- 6 DR. DiPIETRE: The secular trend has
- 7 been a decline. Tremendous decline. If you look

- 8 earlier in the report, you'll see that it's between
- 9 30 and 40 percent, depending on whether -- in the
- 10 last 15 years, depending on whether you measure in
- 11 terms of breeding stock or total. So there has
- 12 been a tremendous secular decline in the pork
- industry in Illinois in the last 15 years.
- 14 THE HEARING OFFICER: Mr. St John.
- 15 Then we are going to get to your question.
- DR. ST JOHN: Bruce St John.
- 17 Dr. DiPietre, I'm wanting to follow-up on
- 18 some of the comments and questions earlier on the
- 19 North Carolina situation, as I try to better
- 20 understand what happened there.
- 21 If I understood you correctly, you stated
- 22 that the transformation of the hog industry in
- 23 North Carolina had occurred over the last ten or
- 24 more years, and I think that's in your written

- 1 prefiled testimony to some degree too.
- DR. DiPIETRE: Yes. About the last
- 3 ten, maybe 15 years.
- DR. ST JOHN: Okay. I have two
- 5 questions based on two charts which I intended to
- 6 introduce later as testimony, but I will introduce
- 7 them now. They are both drawn from a report on a
- 8 1996 hog summit which was conducted in North
- 9 Carolina.
- 10 One shows hog inventory in North Carolina

- 11 from 1983 to 1995, and the number 1993 -- or 1983
- 12 rather is approximately a little over two million
- 13 hogs. And in 1995, it gets up to over eight
- 14 million. It's the chart that I think is
- interesting. If you look between 1983 and 1989,
- 16 almost 1990, it's pretty flat in terms of the
- 17 inventory. And the real growth then begins to
- 18 occur in 1990-91 to the present time.
- 19 The second chart shows what happened to
- 20 hog farms in North Carolina in that same time
- 21 frame. The numbers there, again, are not exact.
- 22 But the material is drawn from the North Carolina
- 23 Department of Agriculture. I'm sure we could get
- 24 exact numbers, if someone wanted them. But

- 1 basically, 1983, you had about 20 -- it looks like
- 2 23 -- 2300 -- or 23,000 rather to 23,500 hog
- 3 farms. And in 1993, you're down to 7,000 hog
- 4 farms.
- 5 So you can see what that chart looks
- 6 like. That generates two questions for you.
- 7 One, in your comments a few minutes ago
- 8 in terms of the North Carolina situation, when
- 9 asked what economic factors caused things to happen
- 10 differently in North Carolina than we saw happening
- in Illinois, there was no mention of the
- 12 industrialization of hog production in North
- 13 Carolina.

- 14 It would appear to me, based on this
- 15 chart, where we had pretty flat inventory levels in
- 16 North Carolina up until we started seeing the
- 17 industrializations of hog production. Must be some
- 18 connection between the way the pigs are being grown
- 19 there today, the size of the facilities, and so
- 20 forth and this massive jump in production.
- 21 Could you comment on that?
- DR. DiPIETRE: Yeah. That's pointed
- 23 out quite a bit, and I think that you can -- cannot
- 24 make the conclusion that there is a causal link

- 1 between those. I think what you can show is that
- 2 had not people invested in the hog industry in
- 3 North Carolina, that you would have had just that
- 4 same trend -- the same exact trend in number of hog
- 5 operations existing there. That, in fact, what you
- 6 are really seeing, and why that is relatively flat
- 7 in those years in 1980, is because a lot of those
- 8 little ones were leaving as the larger scale
- 9 producers were gearing up. So you have a netting
- 10 out effect.
- 11 So you can trace this back to the G.I.
- 12 Bill, in my opinion. As soon as people had
- 13 alternatives off the farm and began taking them,
- 14 there was always the choice between coming back to
- 15 50 sows on dirt or a high labor operation or going
- 16 to college and seeking a career with a company not

- 17 on the farm. And people have been choosing that
- 18 for the last 40 years.
- 19 So you can line up that decline and the
- 20 number of operations and see that -- that it's been
- 21 occurring for 30 years before the existence of any
- 22 kind of large operation. So -- and again, if you
- 23 look at the mechanism by which large producers
- 24 might put small ones out, it might typically be

- 1 something like they flood the market with their
- 2 pigs and lower the price. And, therefore, smaller
- 3 high cost producers can no longer compete in that
- 4 environment.
- 5 But we have seen -- this last year the
- 6 highest hog prices on record we have seen in 1991.
- 7 And in 1990, second highest hog prices on record in
- 8 the history of this business. So in 1990, people
- 9 leaving the business. While some of them may have
- 10 left because of sharp economic problems, the
- 11 general trend has been that hog production has
- 12 remained guite profitable during that time. And
- 13 profitability is not the reason people are leaving
- 14 the business. Or squeezed profitability.
- 15 THE HEARING OFFICER: Okay. I know
- 16 there was one more question at the back of the
- 17 room.
- MR. EMMETT: One last question.
- 19 Bill Emmett from McLean County.

- 20 THE HEARING OFFICER: Could you come
- 21 up here so we can hear you? Go ahead and take his
- 22 question, and have to break for lunch and come
- 23 back.
- 24 WOMAN AUDIENCE MEMBER: That's good.

- 1 MR. EMMETT: Bill Emmett from McLean
- 2 County. The question I have for you is you talk
- 3 about the wonderful things that pork is doing in
- 4 Illinois. And apparently, you've spent a lot of
- 5 time studying this, the economic benefits of pork
- 6 to Illinois.
- 7 Have you looked at the other side of the
- 8 coin? Because there is, in fact, another side of
- 9 the coin. That there is an economic side to the
- 10 other side, where large facilities coming in to a
- 11 neighborhood lower property values, causing you
- 12 health problems for the people in the area, quality
- 13 of life. We can put a dollar amount on a quality
- 14 of life issue.
- 15 Have you looked at the other side of the
- 16 coin?
- DR. DiPIETRE: Some of the things
- 18 that you mention are being studied right now. But
- 19 it's -- in some ways, I have challenged other --
- 20 other sociologists to begin studying this, because
- 21 most of them speak out of studies that were done 30
- 22 years ago about other industries like the paper

- 23 mill and so on. And they have done very little, if
- 24 anything, to study the impact of increased sizes

- 1 in, say, swine production.
- 2 Let me say that I'm here today speaking
- 3 about economic impact of swine production, and
- 4 there is very little in this life, if anything,
- 5 that you get that doesn't cost something. So if
- 6 anybody has read my testimony only to say that let
- 7 in anything you want in Illinois, open the gate,
- 8 allow pollution, allow diminished quality of life,
- 9 allow people to be injured or their health reduced,
- 10 has misread my testimony.
- In fact, I'm published in many places
- 12 calling for high economic and environmental
- 13 standards, but stable ones. So that you set
- 14 realistic high standards, which protect the
- 15 economic environment, do not result in tremendous
- 16 cost, water degradation, large numbers of people
- 17 suffering under noxious odors, or probably property
- 18 values decline.
- 19 It's up to the people of Illinois and the
- 20 regulatory bodies to look at the impact, both
- 21 negative and positive, that this industry can have,
- 22 and then to choose a course which they feel most
- 23 comfortable, which you, in fact, will have to live
- 24 with here.

- I don't live in Illinois. The course
- 2 that you choose in Illinois is up to you. But do
- 3 it on the basis of knowledge, not on the basis of
- 4 causal links, which doesn't exist, or on the basis
- of demography, or on the basis of emotion. Do it
- 6 on the basis of reasonableness, reasonable study.
- 7 Stop people from polluting and causing costs in
- 8 your area.
- 9 But don't -- I would encourage you, if I
- 10 did have a word of encouragement, is don't put in
- 11 regulations which destroy not only the target that
- 12 you are after, which may be corporate agriculture,
- 13 but also the professional family farm in this state
- 14 too. So my recommendation would be along that
- 15 line.
- 16 THE HEARING OFFICER: Okay.
- DR. DiPIETRE: But, yes, there are
- 18 some costs involved. But it's only if you allow it
- 19 to be done in an unreasonable and unplanned and
- 20 unknowledged-based way.
- 21 THE HEARING OFFICER: Thank you,
- 22 Dr. DiPietre.
- MS. MANNING: Thank you,
- 24 Dr. DiPietre.

- 2 would like to do now is take an hour break for
- 3 lunch, and then resume with the remaining
- 4 witnesses.
- 5 (Lunch recess taken the 12:33 p.m.)
- 6 (Resumed proceedings after lunch
- 7 recess at 1:30 p.m.)
- 8 THE HEARING OFFICER: Back on the
- 9 record. Proceed this afternoon in the following
- 10 order.
- 11 First, we have Mr. Safley testify, then
- 12 Ms. Jane Johnson, Mr. John Weber, and Bruce
- 13 St John.
- 14 Following those who have prefiled, then
- 15 we will get to those of you who have signed up to
- 16 testify in the back of the room. I have this sheet
- 17 of 15 people who have signed up. I've also put
- 18 another sheet in the back if someone else wants to
- 19 testify that didn't get an opportunity to sign up
- 20 on this sheet. Please do so in the back of the
- 21 room.
- 22 Mr. Safley, you may begin.
- DR. SAFLEY: Thank you very much.
- 24 Can I still be heard with the microphone? Okay.

- 1 I appreciate the opportunity of being
- 2 able to address the Illinois Pollution Control
- 3 Board today. I've submitted some testimony, and I
- 4 also have an addendum that -- that covers a few

- 5 additional items.
- 6 Agri-Waste Technology is an engineering
- 7 corporation doing business in several states,
- 8 including Illinois. I'm a licensed engineer in 17
- 9 states, including Illinois. Agri-Waste Technology
- 10 works extensively with the confined livestock
- 11 industry in developing permit applications,
- 12 designing waste handling systems, and writing waste
- 13 management plans. Agri-Waste Technology has
- 14 considerable experience in solving agricultural
- 15 waste utilization environmental problems.
- 16 And I'll state that I represent several
- 17 clients that I'm actively working with here in the
- 18 state of Illinois. I hold degrees in bachelor of
- 19 science, master of science, and Ph.D. in
- 20 agricultural engineering. I have more than 16
- 21 years of experience on the faculties of the
- 22 University of Tennessee and North Carolina State
- 23 University agricultural engineering departments in
- 24 those respective institutions.

- 1 During this time, I was involved with
- 2 both livestock waste management research and
- 3 teaching. I published a number of articles, and
- 4 I'm a member of the American Society of Agriculture
- 5 Engineers, and serve on its agriculture waste
- 6 management SE-412 committee.
- 7 Based on my experience and my involvement

- 8 in this state, I would like to offer some comments
- 9 with regard to the Illinois livestock rules, docket
- 10 number R97-15.
- 11 The first point that I would like to
- 12 address has to do with Section 506.205. In
- 13 paragraph B of this Section, it states that the
- 14 following: A liner constructed using in-situ soil
- 15 or borrowed clay or --
- 16 (Proceedings interruption.)
- DR. SAFLEY: A liner constructed
- 18 using in-situ soil and borrowed clay or
- 19 clay/bentonite mixture shall meet the following
- 20 standards. And I'm quoting, as presently stated.
- 21 Minimal liner thickness should be two
- 22 feet, the liner should be constructed in lifts not
- 23 to exceed six inches in thickness, and the liner
- 24 shall be compacted to achieve a hydraulic

- 1 conductivity equal to or less than one to the 10th
- 2 minus seven centimeters to the second.
- 3 The effectiveness of a compacted clay
- 4 liner is based on the hydraulic conductivity of the
- 5 liner material and the thickness of the liner.
- 6 Since a hydraulic conductivity varies according to
- 7 the soil type used in the construction of the
- 8 liner, the liner thickness can be adjusted to meet
- 9 a set standard for discharge through the liner. A
- 10 liner of a given thickness constructed out of a

- 11 soil having a very low hydraulic conductivity will
- 12 offer the same protection as a thicker liner
- 13 constructed out of the materials having a higher
- 14 hydraulic conductivity.
- 15 Region six of USEPA has developed a
- 16 general permit or confined animal feeding
- 17 operations known as CAFOs, which contains a
- 18 standard for compacted clay liners. According to
- 19 the Federal Register, the liner shall be
- 20 constructed to have a hydraulic conductivity of --
- 21 of no greater than one times ten to the minus seven
- 22 centimeters per second, with a thickness of 1.5
- 23 feet or greater or its equivalency in other
- 24 materials.

- 1 USEPA language allows for use of varying
- 2 soil materials to meet the design standards.
- 3 Similarly, the state of Missouri has a compacted
- 4 clay liner criteria based on the quality of the
- 5 soil material. By using this language, or its
- 6 equivalency in other materials, allows a farm owner
- 7 using materials with a lower hydraulic conductivity
- 8 of -- and lower is better in that it reduces the
- 9 seepage potential -- to reduce the thickness of the
- 10 liner and, therefore, save costs with no compromise
- 11 in groundwater protection. Basing liner thickness
- 12 on the hydraulic conductivity of a given material
- 13 with a standard minimum thickness of perhaps 1 or

- 14 1.5 feet would be an appropriate way to ensure the
- 15 liner provides the desired groundwater protection.
- The next point that I would like to make
- 17 is in regards to the lagoon design standards.
- 18 According to the rules both in NRCS Standard
- 19 Illinois 359 and ASAE EP 403.1 can be used to
- 20 design the lagoon system. However, in Section
- 21 506.204, subpart G, subpart 3, of the proposed
- 22 rules, it is stated that the design must meet or
- 23 exceed the volume as calculated by ASAE EP 403.1.
- 24 However, the suggested ASAE standard is limited in

- 1 that it is based on the volatile solids production
- 2 rate of only one type of animal, that being a
- 3 grow-finish animal. Actually in the standard, it
- 4 only gives the waste characteristics for one type
- 5 of swine.
- 6 Many modern swine production facilities
- 7 are developed for a specific function; breeding
- 8 sows and producing baby pigs could be one option,
- 9 nursery pigs or a grow-finish operation. A lot of
- 10 times it's referred to what we know as three-site
- 11 protection. The nutrition received by a given type
- 12 of swine directly impacts the corresponding waste
- 13 characteristics.
- 14 Table 4-11 of chapter four of the NRCS
- 15 Agricultural Waste Management Field Handbook. This
- 16 is by NRCS. It's a national document, not a

- 17 state. Presents nutritionally based waste
- 18 characteristics for different types of waste.
- 19 Contrast that with ASC, their intent was
- 20 to just to make an example. And they use just for
- 21 growth-finishing type of animal. I suggest that
- 22 this table be allowed for use in developing a
- 23 lagoon standard or design using the data presented
- 24 in ASAE EP 403.1 will lead to both overdesigning,

- 1 under -- and underdesigning certain types of waste
- 2 production facilities. Use of waste
- 3 characteristics in chapter four of the Agricultural
- 4 Waste Management Field Handbook will permit
- 5 development of appropriately designed lagoons.
- 6 Additionally, the Agricultural Waste
- 7 Management Field Handbook provides a very detailed
- 8 lagoon design procedure. This procedure should be
- 9 allowed in addition to the one presented in ASAE EP
- 10 403.1. Many smaller producers may solicit design
- 11 assistance from NRCS. NRCS personnel are typically
- 12 required to design waste facilities based on NRCS
- 13 approved data and procedures. Therefore, the use
- 14 of data and procedures found in the Agricultural
- 15 Waste Management Field Handbook is entirely
- 16 appropriate. Section 506.104 of the rules should
- 17 reflect that the Agricultural Waste Management
- 18 Field Handbook is a proper source for design
- 19 information.

- 20 Since Section 506.204, subsection A,
- 21 states that the lagoon needs to be constructed or
- 22 modified according to either ASAE EP 403.1 or NRCS
- 23 Illinois 359, there is no real need to later state
- 24 in the rules that the design must meet or exceed

- 1 the amount of ASAE standard.
- 2 Three. The next point that I would like
- 3 to address is that the setback distances should be
- 4 keyed to a specific time. An appropriate time to
- 5 determine the setback distances is at the time of
- 6 the professional engineer's site investigation.
- 7 This would protect existing residences by
- 8 maintaining the setback distances as specified in
- 9 the rules. At the same time, it would protect the
- 10 livestock operation from the possibility of having,
- 11 for instance, a mobile home move within the setback
- 12 after the site plan had been developed.
- 13 Keying the setbacks to the date that the
- 14 registration package is received by the Department
- 15 of Agriculture will not protect the livestock
- 16 facility from the location of such things as mobile
- 17 homes within the setback distance in order to
- 18 impede the placement of the facility.
- 19 In order to obtain the information that
- 20 is required to submit the registration package, the
- 21 following activities and some others have to be
- 22 completed. And we know this by experience, 'cause

- 23 we have processed several already.
- 24 Topographic survey that is to be

- 1 developed of the site. Soil borings taken. The
- 2 liner has to be established, along with
- 3 specifications for the liner. A liner, if it's a
- 4 synthetic liner, have to define the liner
- 5 manufacturer and get certain assurances from him in
- 6 terms of compatibility of the liner. And
- 7 monitoring wells, if they are needed or required at
- 8 a given site, they actually have to be located.
- 9 All this information has been submitted to the
- 10 Illinois Department of Agriculture.
- 11 It would be fairly simple for someone
- 12 opposing livestock operations to observe site
- 13 location activities and move something like a
- 14 mobile home within the offsets of the proposed
- 15 facility, if we didn't have the opportunity of
- 16 maybe keying this on the time of the site visit or
- 17 the engineering study was actually accomplished.
- 18 Point four. Sections 506.305 and 506.306
- 19 do not indicate the source of information to
- 20 determine the nutrient content of the livestock
- 21 waste or the adjustments to the nitrogen
- 22 availability. The permanent rules should include
- 23 information as presented in the emergency rules.
- 24 The emergency rules do provide that source of

1 information regarding these two calculations. The

- 2 emergency rules site the Midwest Plan Service,
- 3 publication No. 18, as the source which should be
- 4 used for these determinations.
- 5 Finally, there are two points of
- 6 information that should have an appropriate source
- 7 of information identified. The first point is in
- 8 Section 506.305, subsection Q, and relates to
- 9 injecting or incorporating waste in areas which
- 10 fall in the ten-year floodplain.
- 11 At this time, we -- my firm has not been
- 12 able to identify a source in the state of Illinois,
- 13 source of information to which actually delineates
- 14 this ten-year floodplain. There are 100-year
- 15 floodplains, and they talk about ten years. Talk
- 16 about it, but nobody can show me a map where I can
- 17 use it so I can make sure for my clients that we
- 18 restrict activity off of the ten-year floodplain.
- 19 If a source has been identified, the
- 20 Department would be helpful if it is listed along
- 21 with the rule.
- The second point is listed in the actual
- 23 registration package. There is a requirement under
- 24 the monitoring well Section. The form has a space

- 2 table. If possible, it would be a great help
- 3 method for determining this depth should also be --
- 4 could be developed, so we could actually implement
- 5 that. And I'm talking specifically -- specifically
- 6 from a professional standpoint in trying to develop
- 7 such information.
- 8 Attached with my pre-hearing testimony
- 9 were also the references that I alluded to in terms
- 10 of the waste characteristics, of the lagoon design
- 11 procedure, as indicated in the Agricultural Waste
- 12 Management Field Handbook.
- 13 I've passed out to the proceedings
- 14 chairperson the -- a short addendum covering a few
- other points that I'd like to briefly touch on.
- 16 And I'll read as I so stated here.
- 17 There are several topics that I'd like to
- 18 add to my testimony regarding Livestock Waste
- 19 Regulations. These topics are as follows: A brief
- 20 comparison of rules and regulations in Illinois and
- 21 the other swine producing states, or some others
- 22 have specifically here taken the examples of
- 23 Missouri and Oklahoma. A discussion on real world
- 24 cost of the regulations. And a discussion of the

- 1 requirements to test for copper and zinc in
- 2 livestock waste. And additional information with
- 3 regard to setback distances.
- 4 In the proposed Illinois livestock

- 5 regulations, they have similarities in difference
- 6 to the regulations of a number of states. I'll
- 7 leave this probably for the Board's review, and
- 8 since the audience does not have the benefit of
- 9 being able to look at this material.
- 10 The point in making the comparison, there
- 11 is equally strenuous, if not more strenuous, than a
- 12 number of other states and you could go on with X,
- 13 X and X of quite a few of the number of other
- 14 states, if we had had time to provide the
- 15 testimony.
- So in that degree, I personally feel what
- 17 we have is -- I wouldn't say restrictive, but quite
- 18 demanding, quite robust in terms of requiring the
- 19 producers to really work very hard and diligent to
- 20 be able to meet these requirements in some
- 21 situations. Especially in siting with the setbacks
- 22 we have here, it will definitely impede the
- 23 potential of being able to locate the facilities in
- 24 certain parts of the state.

- 1 The second point that I've already
- 2 partially alluded to has to do with maybe the cost
- 3 of implementing these regulations from the
- 4 producer's standpoint. And since the producers are
- 5 my clients, it's obvious why that I would have such
- 6 information on this.
- 7 There are a number of factors, part of

- 8 which I've already identified and wouldn't repeat,
- 9 that have to be considered when you are developing
- 10 a site. You just don't drive out to a site and
- 11 say, that looks good.
- Now, in order to submit a registration
- 13 package, which is quite comprehensive and one of
- 14 the few states that I work in that I'm required to
- do such is sort of more before the fact, and the
- 16 producer is doing all of this without any real
- 17 assurance that he's going to get back an acceptance
- 18 of the registration.
- 19 So there is some up-front costs that
- 20 quite potentially you could go in and define a
- 21 site, registration wouldn't be accepted. And so
- 22 there is into the thousands of dollars potentially
- 23 for some sites that you could look at.
- 24 Many times, producers will accept part of

- 1 that cost, even before they get into submitting a
- 2 registration package, purely from the standpoint
- 3 that they will go out and screen a number of
- 4 candidate sites. So where there might not be
- 5 up-front evidence of activity, there is a lot of
- 6 effort that most judicious producers have to go
- 7 through in order to be able to develop sites.
- 8 I might mention that some -- you know,
- 9 the question obviously could come up, maybe you are
- 10 representing a corporate situation. But a number

- 11 of my clients right now are corporate, but they are
- 12 made up of individual swine producers in the state
- 13 of Illinois, that from the point of efficiency have
- 14 banded together maybe in developing, say, a nursery
- 15 facility, or quite frequently, a facility that will
- 16 produce baby pigs.
- I can think of several situations, or
- 18 actually Illinois farmers, and they maybe just have
- 19 a corporate entity there that helps solidify their
- 20 efforts in trying to remain being very efficient.
- 21 Another point in the proposed livestock
- 22 regulations state that before waste can be applied,
- 23 the waste must be tested for both zinc and copper.
- 24 I'm very aware of what the connotation of these

- 1 heavy metals are. That's been addressed by the
- 2 federal government with regard to application of
- 3 municipal and industrial sludge for years. There
- 4 are federal regulations, 503 regulations, that
- 5 govern the actual application of such elements.
- 6 The soils we have here in the state of
- 7 Illinois for the most part being high CEC, or
- 8 cation exchange capacity, soils have a wonderful
- 9 ability for being able to absorb these nutrients
- 10 without any negative impact. Obviously, if you go
- 11 to the extent of over-application, drastic
- 12 over-application, they could have some negative
- 13 impact. But you are looking at something extremely

- 14 futuristic with the typical application rates that
- 15 I work with.
- 16 What I would suggest is that coming in
- 17 and testing for copper and zinc obviously in the
- 18 waste, we need to know what our base liner and our
- 19 soils. But the frequency of testing for soils is
- 20 probably not any more frequent than once every
- 21 three to five years is probably just going to be --
- 22 it will make the labs happy. They will get some
- 23 business. But as far as definitive information,
- 24 you wouldn't be able to see any buildups frequent

- 1 enough that would warrant testing any more frequent
- 2 than probably once every three to five years for a
- 3 good portion of the soils in Illinois.
- 4 The final point has to do with the
- 5 setback distances, as far as to whether they might
- 6 be from the lagoon or the facility. And I think
- 7 that this is a very appropriate place to attach the
- 8 setbacks. That's currently the way it's set in the
- 9 regulation. In a meeting in Dallas with USPCS that
- 10 is similar protocol, they are adopting in terms of
- 11 more center point of the facility, as opposed to
- 12 taking from the periphery of a given tract, a piece
- 13 of land, there that may -- in some of the
- 14 boundaries of which may not really be pertinent to
- 15 the actual facility operation.
- So with that, I will submit my testimony

- 17 and would offer opportunity for questions.
- 18 THE HEARING OFFICER: Thank you,
- 19 Mr. Safley. I just wanted to clear up for the
- 20 record that on the bottom of page three of your
- 21 prefiled testimony that you are referring to
- 22 Section 506303, Q. You had said 305 Q. Is that
- 23 correct?
- DR. SAFLEY: That's absolutely

- 1 correct. I appreciate your calling that to my
- 2 attention.
- 3 THE HEARING OFFICER: Then we will
- 4 also mark as Exhibit No. 27 Mr. Safley's addendum
- 5 to his prefiled testimony.
- 6 Also, Mr. Safley, do you have a clean
- 7 copy of the National Engineering Handbook that you
- 8 submitted in your prefiled testimony? We can
- 9 submit that as an exhibit as well.
- DR. SAFLEY: I can just leave you my
- 11 original. I'll be glad to do that.
- 12 THE HEARING OFFICER: Okay.
- DR. SAFLEY: Would you like that at
- 14 this time?
- 15 THE HEARING OFFICER: Yes. Because
- 16 you did read in all of your prefiled testimony, so
- 17 it's not necessary to mark that as an exhibit.
- DR. SAFLEY: (Complies.)
- 19 THE HEARING OFFICER: Thank you.

- 20 The Agricultural Waste Management Field Handbook
- 21 from the National Engineering Handbook will be
- 22 marked as Exhibit No. 28 of the record.
- WOMAN AUDIENCE MEMBER: I have a
- 24 question. Would you read that sentence again about

- 1 clay and bentonite. Do we have any bentonite in
- 2 Illinois?
- 3 DR. SAFLEY: The allusion to
- 4 bentonite. Should you have a soil that would not
- 5 have the characteristic of one times ten to the
- 6 minus seven. Just an engineering term we use
- 7 talking about hydraulic activity. You can come in
- 8 an add bentonite. Typically found in western parts
- 9 of the U.S. Have that shipped in, and then you
- 10 would make up, you might say, a recipe of how much
- 11 bentonite to how much native clay in order to be
- 12 able to achieve this one times ten to the minus
- 13 seven. Just be one alternative if you didn't find,
- 14 you might say, the natural class of that, the
- 15 rigor, develop the liner.
- 16 THE HEARING OFFICER: Thank you,
- 17 Mr. Safley. Are there any questions in the
- 18 audience of Mr. Safley at this time?
- 19 MR. HOBSON: Yes. My name is Steve
- 20 Hobson. I'd like to just kind of point out or ask
- 21 a couple of questions there. The NRCS Illinois 359
- 22 and ASAE 304.1, do those represent -- do these

- 23 describe any permeability rates?
- DR. SAFLEY: No, they don't.

- 1 MS. MANNING: Another question. You
- 2 mentioned you design a lot of facilities here in
- 3 Illinois. I wanted to ask a question about methane
- 4 recovery as a way of reducing odors to some of
- 5 these large facilities and talk about the economic
- 6 cost benefit for doing that.
- 7 DR. SAFLEY: Go ahead. I didn't get
- 8 all of what you said in the form of a question.
- 9 MR. HOBSON: I was just wondering,
- 10 could you discuss about the -- it seems to me that
- 11 there is a cost benefit to doing methane recovery,
- 12 which is, you know, perhaps putting tarps and
- 13 running it through generators. Methane through
- 14 generators. And so for -- as a way of reducing --
- or do you know why hasn't that occurred in designs
- 16 that possibly that you can do and so forth? If you
- 17 can mention about that, please.
- DR. SAFLEY: I'll be glad to. I've
- 19 probably done as much research on that as anyone in
- 20 the country, so I can talk about that.
- 21 Putting a cover over a lagoon has a
- 22 marginal capability of, you might say, controlling
- 23 odor. You have other potential sources. Of
- 24 course, odor is highly subjective.

- 1 If that is the real goal, that can be
- 2 accomplished very easily through a lagoon design.
- 3 There is a potential of mitigating odor to a
- 4 degree. Typically when I visit with producers that
- 5 have constructed such, they say, well, possibility
- 6 I can see a 10 to 25 percent reduction in odor.
- 7 But that's very subjective. And that's about how
- 8 far it goes.
- 9 There is no way of really associating a
- 10 benefit, you might say, to that. On the other
- 11 hand, as far as the energy production, lagoons
- 12 themselves will produce a certain amount of
- 13 methane, and that's very quantifiable. You can
- 14 look at the waste characteristics and pretty well
- 15 estimate. And I have a number of clients who
- 16 happen to be doing that.
- 17 The utilities of that technology is
- 18 probably going to be restricted to climates
- 19 somewhat more southern right now. Most natural
- 20 bacteria are not going to exist in terms of making
- 21 methane in the environment that I've experienced
- 22 this morning out here.
- 23 So you get to southern climates where you
- 24 can maintain temperature in the reactor at a

- 2 Fahrenheit, throughout the course of the year.
- 3 There is some technological capability of
- 4 being able to make bile gas. If you were to do it
- 5 in Illinois, you wouldn't make any gas through the
- 6 winter. And come up to about May, and make so much
- 7 gas you wouldn't know what to do with it. Your
- 8 cover there may float off. It takes less than one
- 9 PSI of pressure to actually inflate these. And you
- 10 would have a dirigible hovering around.
- It's a technology to be developed. It is
- 12 a concept. It's something very worthwhile to look
- 13 at. But since I have had a part of designing in
- 14 this -- coincidentally, a number of my clients
- 15 considering this technology right now. I have to
- 16 be very aware of all of the subtleties that have to
- 17 be in there. And very few of the clients I'm
- 18 working with at present are trying to attach that
- 19 technology and equate it with odor reduction.
- So, yes, there may be some gravy to be
- 21 achieved, if you went to that expense. But the
- 22 expense right now is borderline. And the question
- was asked, why hasn't it been implemented.
- 24 Typically for any producer, corporate or small,

- 1 it's going to get down to the dollars and cents.
- 2 Right now with -- even if you look at
- 3 avoided cost on the electrical energy, or even if
- 4 you had to displace your own electrical load there,

- 5 the economics are just not there to really give a
- 6 lot of incentive.
- 7 THE HEARING OFFICER: Thank you.
- 8 Yes. Please stand up there.
- 9 MR. KUCK: My name is Joe Kuck. I'm
- 10 from Peoria County. Now, you discussed lagoons and
- 11 everything else, and you talk of technology. Is
- 12 there an alternative technology to the lagoon
- 13 system?
- I believe there is. Somewhere I read a
- 15 small amount about it, where it was almost equally
- 16 cost effective.
- 17 Why hasn't this been incorporated into
- 18 some of our discussions?
- DR. SAFLEY: And I don't want to
- 20 play coy with you in the least. I've worked in
- 21 this for two decades. I left the university to
- 22 work in private practice on this.
- 23 If I knew of an alternative right now
- 24 that I could implement that's cost effective -- I'm

- 1 on the road essentially four to five days a week as
- 2 it is now. I would lose those remaining hours in
- 3 trying to be able to actually implement that. So I
- 4 am not aware of that technology that you say is
- 5 cost effective.
- 6 Even if it costs 20 percent, 30 percent
- 7 more than the current technology, if it was

- 8 available there, I have clients that would purchase
- 9 that right today and never look back over their
- 10 shoulders. So I'm not aware of it.
- 11 MR. KUCK: I think I read something
- 12 of it, but not --
- DR. SAFLEY: Yes.
- 14 MR. KUCK: -- too much. I was just
- 15 wondering.
- DR. SAFLEY: Sure.
- 17 MR. KUCK: You are in the field and
- 18 you are the technician. I would find you would be
- 19 the person to ask about that.
- DR. SAFLEY: And I appreciate that.
- 21 There are a number of companies that are very
- 22 diligently looking for alternatives. I have
- 23 clients that probably have gone through every
- 24 commercial product that they have been able to come

- 1 up with, sometimes second or third generation, of
- 2 going through using scientific protocol and being
- 3 able to investigate this product or that product.
- 4 And I'll have to share it with you. For the large
- 5 part, there is some testimony that says, well, it
- 6 worked fine on my farm. But you can't get that
- 7 opportunity located. I can't look a producer in
- 8 the face and say, use this product regardless of
- 9 whatever the cost. Cost is typically not the
- 10 issue. It's going to do this for you. It's just

- 11 not there.
- 12 You got some big major agri-chemical
- 13 companies that are spending millions of dollars in
- 14 trying to develop technology. There are other
- 15 things that people are looking at. But believe me,
- if there is technology out there that people are
- 17 saying it's on the shelf, you can come out there,
- 18 it's going to be effective, it's yet to come to my
- 19 door.
- 20 THE HEARING OFFICER: Thank you.
- DR. SAFLEY: In order to be able to
- 22 understand --
- MR. KUCK: I was curious to find out
- 24 if there was other possibilities. Municipalities

- 1 use closed facilities.
- DR. SAFLEY: Typically, the
- 3 economics on any standard of trying to implement
- 4 that type of technology is not going to do anything
- 5 but put all of the producers out of business. To
- 6 carry it to anything even close to resemblance.
- 7 Now, there is also typically a major
- 8 difference with what we see in municipalities. And
- 9 what we see within the agriculture sector in that
- 10 most municipalities have what we refer as to
- 11 discharge systems. They have to invest a
- 12 tremendous amount of money, our money, you know, as
- 13 taxpayers, so they can devise a system, they can

- 14 design and implement it. They're cost conscious,
- 15 but they know always the bills are going to be paid
- 16 by someone. Levy more taxes, whatever, with you.
- 17 But those are discharge systems meant to
- 18 be directed toward developing the waste or treating
- 19 it to get to certain discharge standards going back
- 20 into a stream. Whereas most of the time on
- 21 livestock operations, what we are trying to do is
- 22 reach a degree of stability in terms of the organic
- 23 waste, minimize the odor impact and get nutrients
- in a form that can be utilized readily for crop

- 1 production, as opposed to not talking about
- 2 discharge facilities, current permits or
- 3 regulations that we are looking at as far as a
- 4 non-discharge facility.
- 5 So talking about putting the material
- 6 back onto the land and utilizing it beneficially.
- 7 MR. KUCK: Okay. All right. Just
- 8 interested to know.
- 9 DR. SAFLEY: Yes, sir.
- 10 THE HEARING OFFICER: Are there any
- 11 other questions? Mr. Safley, could you just
- 12 shorten your answer a bit, though, too, 'cause we
- 13 really do need to get going.
- DR. SAFLEY: Sure.
- 15 MALE AUDIENCE MEMBER: Ask you this
- 16 question. You mentioned design parameters, the

- 17 lagoon parameters in size. How in the world could
- 18 a bigger lagoon smell less than a smaller lagoon?
- 19 That doesn't make sense to us.
- DR. SAFLEY: Leading me here. And I
- 21 can appreciate what you are saying. Address that
- 22 briefly.
- 23 Bacteria. And really bacteria is among
- 24 the oldest known to the planet. They grow to adapt

- 1 to specific types of feed stuffs. You can actually
- 2 affect bacteria by changing the rations that you
- 3 put into the animal that makes the waste. A
- 4 bacteria likes to come in and see relatively
- 5 uniformity.
- 6 If I characterize a waste in terms of the
- 7 organic strength, I can actually go in, and knowing
- 8 the temperature that the lagoon is going to be
- 9 operated, design a lagoon -- not -- this is not
- 10 going to ever have any odor, but reasonably
- 11 decompose and sort of stabilize that material. The
- 12 larger lagoons that you have up to a degree can
- 13 come in there, and it's a matter of just
- 14 designing.
- 15 Think of your stomach. You are just
- 16 coming in there and designing a stomach that has
- 17 that capability of routinely being able to
- 18 decompose the waste. If you underdesign the
- 19 lagoon, make it too small, it can't decompose all

- 20 of the waste, and you get tremendous odor
- 21 potential.
- 22 So it's size as far as the specific type
- 23 of waste material that has to go in there. So
- 24 therefore, the digester size is a function of the

- 1 temperature, and it will be much different from the
- 2 southern part of Illinois to the northern part of
- 3 Illinois in the actual waste characteristics. And
- 4 that is something that the standards Department of
- 5 Agriculture suggested fully take into account.
- THE HEARING OFFICER: Thank you,
- 7 Mr. Safley. Okay. I think this will be the last
- 8 question for Mr. Safley. Then on to our next
- 9 witness.
- 10 MR. MEHTA: Chirag Mehta, Illinois
- 11 Stewardship Alliance. As we understand it, members
- 12 of our organization, Agri-Waste is the company for
- 13 designing the operation near Carthage, Illinois.
- 14 Is that correct? Little Timber. Limited liability
- 15 corporation.
- DR. SAFLEY: We have a role that we
- 17 play in that, yes, sir.
- MR. MEHTA: Now, as we understand
- 19 it, on that site, the EPA -- Illinois EPA recommend
- 20 that site not be -- the operation not be
- 21 constructed on that site. Is that correct?
- DR. SAFLEY: In my review of the

- 23 correspondence, there was communication, but it's
- 24 not actually clear in terms of what capacity. No

- 1 disrespect to the Illinois EPA. I'm just not
- 2 certain as to, I guess, who has authority to bless
- 3 a site that doesn't exist. So I'm not sure.
- 4 MR. MEHTA: I'm not saying you
- 5 didn't get their blessing. But didn't they
- 6 recommend that you not --
- 7 DR. SAFLEY: I've seen a lot of
- 8 correspondence. Like I say, I don't know that
- 9 someone would make a statement. I could make a
- 10 statement, but I'm not sure they have that
- 11 capability or they have the authority just to make
- 12 a blessing on a site, you know, before it's
- 13 constructed. There may have been opinions that
- 14 were voiced, but I'm not aware of that right now.
- MR. MEHTA: While constructing the
- 16 site, are you aware that while digging the lagoon,
- 17 you encountered sand at the bottom of the lagoon
- 18 while continuing to construct? And in
- 19 construction, you encountered more sand. Are you
- 20 aware of that?
- DR. SAFLEY: Some sand in there. In
- 22 fact, we had put in freeboards. There were some
- 23 people, I think, that came out from an Agency that
- 24 I think had maybe understood that that was going to

- 1 be the liner. But, in fact, at the time that they
- 2 had actually made the visit, they probably didn't
- 3 have benefit of the knowledge that the borrow area,
- 4 from which the clay was going to be taken, was
- 5 several hundred yards away. The material they saw
- 6 was just incidental construction.
- 7 MR. MEHTA: You mentioned that the
- 8 registration application would help choose -- I
- 9 might be paraphrasing here, so correct me if I'm
- 10 incorrect.
- DR. SAFLEY: Yes, sir.
- MR. MEHTA: That the registration
- 13 process would help operations choose the best
- 14 possible site. How would the registration, for
- 15 example, help prevent a facility being built on
- 16 sink holes like they are being built in Green
- 17 County?
- DR. SAFLEY: Okay. You are making a
- 19 statement that I guess I don't concur with. So
- 20 I'll have to ask you maybe to clarify your question
- 21 on that.
- MR. MEHTA: For example, there is a
- 23 corporation building about a 35,000 head facility
- 24 on karst topography.

- 2 topography?
- 3 MR. MEHTA: Yes. Absolutely. Now,
- 4 we wouldn't consider that the best possible site.
- 5 How would the registration process prevent bad
- 6 sites from happening, from being built on?
- 7 DR. SAFLEY: Switch it here a little
- 8 bit. How many borings and what depth typically are
- 9 required on the facility?
- 10 MR. MEHTA: For the registration
- 11 process, three borings are required, 50 feet in
- 12 depth.
- DR. SAFLEY: Okay. Okay. If you
- 14 come in there and you are trying to screen a site,
- 15 No. 1, you are going to use every resource that is
- 16 available to come in and be able to screen the site
- 17 to see what the geology is going to be on the
- 18 site. Then you come in, and you'll actually put in
- 19 those borings there. So if you got to a point and
- 20 you saw that there was a problem, I think there are
- 21 a number of options that have allowed themselves to
- 22 be open.
- 23 At that point in time, you can come in
- 24 and put in monitoring wells. If you find that

- 1 you've found an ability for bearing material within
- 2 probably 20 feet, you can come in and put in a
- 3 liner. There is several stages, about three stages
- 4 I believe, that you can come in and screen the

- 5 site.
- 6 Most prudent operators are not going to
- 7 go to the trouble of submitting a registration to
- 8 the Illinois Department of Agriculture, unless they
- 9 have pretty well screened that site so they know
- 10 they can meet the criteria.
- 11 MR. MEHTA: So you would contend
- 12 that a liner in monitoring wells would be
- 13 sufficient protection if, say, a lagoon was being
- 14 built when there was a significant amount of sand
- 15 below and around a lagoon.
- DR. SAFLEY: Well, I'll just defer
- 17 to what the exact regulations say. They are very
- 18 specific. If you encounter certain materials
- 19 during your boring evaluations, you can either put
- 20 in a liner or put in monitoring wells or both.
- 21 MR. MEHTA: You consider that
- 22 sufficient protection in a situation where that's
- 23 required?
- DR. SAFLEY: That's not for me to

- 1 judge as far as whether it's sufficient
- 2 protection. My position would be to come in and
- 3 actually specify and design the liner to meet the
- 4 requirements that is set by the Illinois Pollution
- 5 Control Board.
- 6 MR. MEHTA: You said earlier in your
- 7 testimony that the regulations were robust. I  $\operatorname{\mathsf{--}}$

- 8 that's why I'm asking the question if you think
- 9 that's sufficient regulations.
- 10 DR. SAFLEY: Well, I'm not going to
- 11 make a comment on that. That's for the Pollution
- 12 Control Board. They are setting the standards.
- 13 I'm just trying to implement them.
- 14 MR. MEHTA: Thank you. Appreciate
- 15 it.
- 16 THE HEARING OFFICER: Thank you,
- 17 Mr. Safley. Okay. Now, continuing, Ms. Johnson.
- MS. JOHNSON: Hello, everyone. I
- 19 see you are awake now. Is this thing working?
- 20 Okay.
- 21 I want to say that in Knox County, we
- 22 love our hog producers association. We love hogs.
- Ms. Hearing Officer, concerning possible
- amendment to PA 89-456, the Livestock Management

- 1 Facilities Act, I want the Illinois Legislature to
- 2 include a statewide safe siting process, longer and
- 3 further setbacks, local control over intensities of
- 4 the operation, adequate indemnity funds for
- 5 accidents, and escrow funds for closure of any mega
- 6 livestock confinement site.
- 7 I would require that all consulting
- 8 engineers and construction managers offering plans
- 9 and drawings for the construction of mega animal
- 10 confinement facilities be licensed in the state of

- 11 Illinois as is required in 225 Illinois Compiled
- 12 Statutes, 325, slash, 1, through 325, slash, 49. I
- 13 would require that all plans and drawings for such
- 14 facilities be signed by the engineer who developed
- 15 the plans and drawings. The public must not be
- 16 shortchanged in this matter.
- 17 In my own neighborhood, the operator of a
- 18 proposed mega livestock corporation claimed in the
- 19 media that his facility would be a farrowing
- 20 operation only. But his county zoning permit
- 21 application and its field drawings show activity
- 22 from animal gestation to finishing, with plans for
- 23 expansion. If I am to embrace the pending
- 24 Livestock Waste Regulations, their criteria should

- 1 require the operator to submit correct and truthful
- 2 information to the public. The operator's plans
- 3 and public -- permits are public information.
- 4 An excerpt from the 1986 Knox County,
- 5 Illinois, soil survey shows that only 10.2 percent
- of Knox County holds moderate limitation for siting
- 7 animal waste lagoons. The rest of the county, or
- 8 89 percent, is severely limited for siting such
- 9 lagoons. Many soil types have too much slope and
- 10 seepage, flooding or wetness. A new amendment to
- 11 the Act should require the Illinois Department of
- 12 Agriculture and the Illinois Environmental Agency
- 13 to verify all the soil types under any mega animal

- 14 confinement site for suitability. The IDOA and the
- 15 IEPA should not trust this job to the mega
- 16 corporation entity proposing to build.
- 17 And I apologize to you (indicating).
- 18 Regarding the U.S. Environmental
- 19 Protection Act of 1970, 40 CFR, part 412, feedlots,
- 20 point source category, and the Illinois Pollution
- 21 Control Board rules and regulations, Subtitle C and
- 22 E.
- 23 Section 412.10. All subcategories
- 24 applies to discharges of pollutants resulting from

- 1 feedlots where swine and cattle are housed and fed
- 2 regardless of whether on a slotted or concrete
- 3 floor, open or closed lot. The category applies to
- 4 operations as large or larger than 2,500 actual
- 5 swine weighing over 55 pounds.
- 6 Now, complying with 412.10 is part of the
- 7 National Pollution Discharge Elimination System
- 8 permit process, or the N.P.D.E.S., overseen in this
- 9 state by the Illinois Environmental Protection
- 10 Agency.
- 11 To begin the N.P.D.E.S. process, in one
- 12 instance, a public notice fact sheet dated August
- 13 23, 1996, was issued by the IEPA, Division of Water
- 14 Pollution Control permits Section, notifying the
- 15 public that in order to conduct his mega cattle
- 16 feeding business according to effluent and water

- 17 quality limitations specified in Subtitle C, water
- 18 pollution, and/or Subtitle E, agricultural-related
- 19 pollution, and/or 40 CFR 412, an applicant, Allen
- 20 Berry Livestock of Ogle County, Illinois, had to
- 21 seek and be issued an N.P.D.E.S. permit to prohibit
- 22 discharge into the waters of the state.
- I contend that any mega hog confinement
- 24 operation in the Midwest is subject to the above

- 1 detailed criteria. Some agencies in this state, I
- 2 believe, have interpreted the above to mean that no
- 3 N.P.D.E.S. permits are required for large feedlots,
- 4 because the operator will not discharge into the
- 5 waters of the state. This seems a false
- 6 assumption, because there is no such thing to me as
- 7 a closed hydro circuit.
- 8 Further, since the N.P.D.E.S. permit
- 9 program is federally mandated, any mega livestock
- 10 producer should be obligated, I think, to file with
- 11 the national Environmental Protection Agency and
- 12 its representative agency, the IEPA, a full and
- 13 concise environmental impact statement taken from
- 14 an environmental impact study. No migrating mega
- 15 hog confinement corporation should be privileged in
- 16 the state of Illinois to circumvent any of the laws
- 17 on our books.
- 18 And I have the public notice fact sheet.
- 19 This man was going to start the beef mega

- 20 operation, and he had to apply for the N.P.D.E.S.
- 21 I don't know if he got it or not though.
- The N.P.D.E.S. permit process, Title 35,
- 23 Subtitle E, part 501.340. Section 501.355
- 24 describes pollutant as sewage. And the Webster

- 1 dictionary's defined definition of sewage is the
- 2 waste matter carried off by sewers or drains.
- 3 Section 501.360 describes a settling
- 4 basin as diked or wall structures designed as part
- 5 of a livestock waste-handling facility to detain
- 6 feedlot runoff for a sufficient time to permit
- 7 solids to settle for later removal. That describes
- 8 the lagoon.
- 9 Section 501.380 describes water pollution
- 10 as alteration of the physical, thermal, chemical,
- 11 biological or radioactive properties of any waters
- 12 of the state, or which the discharge of any
- 13 contaminate will create a nuisance or render such
- 14 waters harmful or injurious to public health safety
- 15 or the welfare of men and beasts.
- 16 Subpart C, operational rules, Section
- 17 501.401, general criteria, B, requires the owner or
- 18 operator of any livestock management facility or
- 19 livestock waste-handling facility to comply with
- 20 the Clean Water Act, N.P.D.E.S. filing
- 21 requirements, and the feedlot category of
- 22 point-source effluent guidelines.

- 23 Little d-3 states that if there are local
- 24 zoning ordinances that cover such livestock

- 1 management or livestock waste-handling facilities,
- 2 then those ordinances take precedence as to setback
- 3 requirements of subsection C.
- 4 I am asking the Illinois Pollution
- 5 Control Board, how could federal regulations refer
- 6 to a right that a county could have to regulate
- 7 livestock waste through zoning regulations if the
- 8 county had no rights? No such rights? For quite
- 9 some time, citizens of this state have been led to
- 10 believe that their county boards and zoning
- 11 departments had no local control over mega
- 12 livestock waste management facilities. I don't
- 13 believe that is quite a correct assumption. The
- 14 IPCB should research this subject.
- I don't believe that the Livestock
- 16 Management Facilities Act of 1996 can take
- 17 precedence over other established laws.
- The IDOA has gone too far, squeezing out
- 19 local control. I'm getting finished here.
- 20 The Illinois Pollution Control Board
- 21 recently issued a statement in the Groundwater
- 22 Gazette, Volume 4, No. 2, that it had through the
- 23 years -- and this is very good -- strived for
- 24 regulatory flexibility, while at the same time

- 1 providing for the protection and environmental
- 2 integrity of our natural resource. The Board has
- 3 attempted to protect Illinois groundwater. The
- 4 Board deems Illinois groundwater at risk with --
- 5 quote, with the influx of construction of larger
- 6 livestock production facilities without
- 7 specification for their design.
- 8 This lack worries me too. I don't have
- 9 to tell the Board that mega livestock regulations
- 10 and controls are adequate at this time. The Board
- 11 told me they were. The Board recognizes the risk,
- 12 quote, not to the groundwater alone but to the
- 13 public at large, to the neighbors of the facilities
- 14 and to the livestock producers themselves, who risk
- 15 environmental liability for any pollution caused.
- 16 For this statement, in all honesty, I'm
- 17 grateful to the Board. Now, I ask the Board to
- 18 suggest an amendment to the Livestock Management
- 19 Facilities Act that will guarantee rightful
- 20 protection to the public.
- 21 Another law that should be referenced in
- the modified regulations to PA 89-456, protecting
- 23 public health and safety, can be found in the 1987
- 24 Illinois Revised Statutes, chapter 111-1/2, Section

- 2 Are you still with me?
- 3 Property owners of all buildings and
- 4 places where -- and not just -- where not just 15
- 5 people live, work or assemble, shall provide for
- 6 the sanitary disposal of all human waste and
- 7 domestic sewage, which shall be disposed of by
- 8 discharging into a sewage system operated and
- 9 maintained under permit of the Illinois
- 10 Environmental Protection Agency and shall be in
- 11 compliance with the Public Health and Safety Act.
- Now, what that is leading up to is this.
- 13 I want the Illinois Pollution Control Board to
- 14 reference and consider the Illinois Private Sewage
- 15 Disposal Licensing Act and Code of 1973. 225 IL CS
- 16 through 225, slash, 1. The purpose of this Act is
- 17 to stop the spread from private sewage disposal
- 18 systems of infectious or contagious diseases. And
- 19 other conditions that would adversely affect the
- 20 public health, safety and general welfare of
- 21 persons.
- 22 All mega livestock operations' facilities
- 23 have groundwater pathways that might connect a
- 24 pollutant source to a groundwater resource. If

- 1 there is no consideration of travel times and
- 2 volumetric fluxes, wherever a mega site is
- 3 selected, there must not be a pathway or pathways
- 4 to a groundwater resource.

- 5 Page 64 of the above code under type of
- 6 establishment, offices and day workers, numbers
- 7 only 15 gallons of daily sewage flow per worker.
- 8 Office (sic) workers of a commercial mega livestock
- 9 facility taking two showers a day, as a measure to
- 10 prevent contamination to the livestock, will use
- 11 more than 15 gallons of water daily in their
- 12 ablutions. At an estimated one-and-a-half gallons
- 13 use per minute, times ten shower minutes, times two
- 14 showers daily, the figure would factor out at 30
- 15 gallons a day. 30 workers taking 30 showers would
- 16 use 900 gallons a day. These gallons would be in
- 17 addition to the 15 gallons of waste water already
- 18 allotted each person under the code.
- 19 Theoretically, it would take 1,350
- 20 gallons daily to run an operation just from the
- 21 human waste standpoint. Now don't forget that.
- I want the Illinois Pollution Control
- 23 Board to incorporate into its rulemaking reference
- 24 to the Illinois Water Use Act of 1983. This Act

- 1 manages and conserves groundwater and is
- 2 implemented and enforced by the local county Soil
- 3 and Water Conservation District and its district
- 4 conservationists.
- 5 If a mega livestock facility will use
- 6 over 100,000 gallons of water daily, drawn down
- 7 locally, the operator must notify the local Soil

- 8 and Water Conservation District and its district
- 9 conservationists of that fact before construction
- 10 on the facility ever begins.
- 11 The district requires notice and provides
- 12 guidance for planned substantial withdrawals of
- 13 groundwater. The Act establishes a mechanism for
- 14 restricting groundwater withdrawals in case of
- 15 emergency. It established a means of reviewing
- 16 potential water conflict and imposing fines.
- 17 The draft improvement to the Illinois
- 18 Livestock Management Facilities Act should
- 19 carefully consider all of the groundwater and
- 20 surface water regulations contained in Illinois
- 21 law. The public wants a guarantee that
- 22 contaminants released at the surface will never
- 23 contaminate an accessible environment. The IDOA
- 24 and the IPCB should develop site-selection criteria

- 1 that satisfies the public demand.
- 2 Unless the IPCB, when overhauling the
- 3 Livestock Management Facilities Act, makes
- 4 reference to other state laws pertinent to the
- 5 construction and management of mega livestock
- 6 facilities, the mega corporations infiltrating
- 7 Illinois might not research water and other
- 8 important laws. Their neglect and ignorance could
- 9 cause serious environmental damage to a targeted
- 10 community's rights to clean water and clean air.

- 11 This is about land saturation.
- 12 The public is worried that the
- 13 introduction of nutrients; nitrogen, phosphorus and
- 14 ammonia, as well as heavy metals, steroids and
- 15 antibiotics, will adversely affect the terrestrial
- 16 and aquatic systems and the groundwater water near
- 17 the site of a mega livestock facility. The
- 18 presence of salt in the animals' feed passed on in
- 19 manure is another concern to be reckoned with.
- 20 When livestock waste from a mega facility
- 21 is spread on farmland to improve crop productivity,
- 22 the point of saturation of the land can soon be
- 23 reached. I offer the article, Area Needed for Land
- 24 Disposal of Beef and Swine Wastes, published by the

- 1 Iowa State University of Science and Technology.
- 2 That formulates the amount of waste that can be
- 3 deposited, sprayed or incised onto and into the
- 4 land before the land reaches a saturation point.
- 5 The article confirms the high application
- 6 rates present in potential groundwater and soil
- 7 water -- soil pollution hazards. I'm almost
- 8 finished.
- 9 This is a definition of an aquifer.
- 10 There are several definitions of the word aquifer
- 11 floating around the state of Illinois. I hope that
- 12 the IPCB will use the IEPA definition, which is the
- 13 separate one from the one the IDOA and the Illinois

- 14 state surveys use. And I would like to enter as an
- 15 exhibit this book, Understanding the Impacts of
- 16 Large-scale Swine Production. And this is by a
- 17 group in Iowa. Thank you.
- 18 THE HEARING OFFICER: Thank you very
- 19 much. Actually, we have that entered in as an
- 20 exhibit from the Jacksonville hearing.
- MS. JOHNSON: All right.
- THE HEARING OFFICER: However, we
- 23 will admit your testimony as Exhibit 29 because you
- 24 have attached the articles that you referenced.

- 1 MS. JOHNSON: That I referenced.
- 2 THE HEARING OFFICER: And the
- 3 N.P.D.E.S. permit you referred, to as well. So
- 4 that will be marked Exhibit 29.
- 5 Any questions for her at this time?
- 6 MS. JOHNSON: I hope not. We must
- 7 keep going.
- 8 THE HEARING OFFICER: Well, thank
- 9 you very much. We appreciate that.
- 10 And Mr. Weber, if you'd like to give your
- 11 testimony.
- 12 MR. WEBER: I am John H. Weber.
- 13 Retired. So that means you can't ask too many
- 14 questions, 'cause I've forgotten all the answers.
- 15 THE HEARING OFFICER: Could you
- 16 speak up or bring the microphone closer?

- MR. WEBER: Is that better?
- 18 THE HEARING OFFICER: No.
- MR. WEBER: Can't see over it then.
- I thank you for the opportunity of being
- 21 here today to say what I have to say.
- 22 My background for making these remarks is
- 23 some over 55 years. My parents made it possible
- 24 for me to attend a university and graduate from the

- 1 school of engineering. Instructors were quite
- 2 clear that solutions must always include proper
- 3 scientific analysis and social requirements.
- 4 Technical development and analysis and
- 5 design of waste treatment in the last decade has
- 6 been important and plentiful.
- 7 And I have these suggestions. Treatment
- 8 of waste and handling waste and confined buildings
- 9 should be such that there be no septic conditions
- 10 allowed to exist. There are a number of ways to
- 11 accomplish this, and I certainly wouldn't want to
- 12 try and enumerate all of them, and couldn't
- 13 enumerate all of them.
- 14 Waste in Knox County should be treated to
- 15 a 95 percent of the biochemical oxygen demand
- 16 required to biologically stabilize the organic
- 17 matter present. The reason, after this treatment,
- 18 waste will generally have to be applied to the
- 19 soil, or it can -- or it can be let into a stream.

- 20 Into a stream, if the stream has adequate flow to
- 21 complete the remaining 5 percent of the biological
- 22 chemical demand.
- 23 Soil application rates must take the
- 24 following into account. The uptake by the

- 1 vegetation, limit nitrogen and phosphorus to the
- 2 amount used by the vegetation, as both can be
- 3 groundwater pollutants, proper consideration of
- 4 trace elements, particularly heavy metals, because
- 5 of their phototoxicity, and also because of their
- 6 potential to accumulate in the water and enter the
- 7 human food chain through crop uptake.
- 8 Some elements, especially boron, are
- 9 mobile, and they contaminate groundwater. The
- 10 complexibility of soil-plant trace metal
- 11 interactions and a lack of data have resulted in a
- 12 general lack of evaluation criteria for judging
- 13 consequences of waste applicable -- application to
- 14 land. Urban areas are required to meet strict
- 15 criteria in treating their waste and in disposal of
- 16 same.
- 17 During my career as a professional
- 18 engineer, it was necessary -- with the amount of
- 19 waste produced by hogs, it was necessary to
- 20 determine the amount of waste produced by hogs
- 21 versus human beings. After a reasonable amount of
- 22 research and advice from respected sources, it

- 23 turned out that hogs provide two-and-a-half times
- 24 more than humans. That means that 1,000 confined

- 1 hogs would produce waste equivalent to a village or
- 2 city of 2500 people.
- 3 A village of that size would be subject
- 4 to strict regulation as to why shouldn't a hog --
- 5 and so why shouldn't a hog confinement for 1,000
- 6 hogs or any other hog confinement installation? We
- 7 are fortunate to have a leading University of
- 8 Illinois with an engineering school with excellent
- 9 talent for teaching and researching waste
- 10 treatment.
- I suggest that the state agency that ends
- 12 up with the responsibilities for administering --
- 13 administering the animal waste regulation ask the
- 14 university people to set up proper performance
- 15 requirements. The state administrator
- 16 administering authority will have to provide and
- 17 properly educate personnel to instruct owners in
- 18 the waste treatment, and see that regulations are
- 19 adhered to.
- 20 If the herein before outline is followed,
- 21 anyone planning to start a hog confinement would
- 22 know the rules, thus eliminating all the hassle;
- 23 the environment would be stable; there would be no
- 24 odor caused by septic conditions or improper

1 treatment design. A professional engineer would be

- 2 hired by the owner to ensure a proper waste
- 3 treatment design.
- 4 Following the herein before outlined
- 5 would ensure confinement would be a good neighbor,
- 6 no matter the size, as long as dead animals and
- 7 other housekeeping duties are properly conducted.
- 8 And I think somebody else mentioned this.
- 9 I think that there should be a
- 10 financial -- a financial arrangement that in a case
- 11 of the discontinuance of a confinement operation,
- 12 proper closing conditions are met so that the
- 13 taxpayer is not given an additional burden. I end
- 14 with that.
- 15 THE HEARING OFFICER: Thank you,
- 16 Mr. Weber. Are there any questions for Mr. Weber?
- 17 MR. KING: I have a question. Brent
- 18 King again.
- 19 Could you please tell where you got the
- 20 information -- make sure I understood this. Finish
- 21 hog produces two-and-a-half times the amount of
- 22 waste that a human produces in a day.
- MR. WEBER: Mr. King, back in the
- $24~1950\,\mbox{'s}$  an individual came in my office, and I'm not

- 2 wanted to build a confinement facility. They
- 3 wanted to have waste disposal that would meet the
- 4 general social requirements of the day, and so I
- 5 went to the state agency, and I went to various
- 6 other people that are supposed to know this thing,
- 7 and that's where I found the two-and-a-half times.
- 8 MR. KING: So does that mean -- then
- 9 do you have current figure for human production
- 10 that establishes that?
- MR. WEBER: Do I have what?
- 12 MR. KING: You mentioned that figure
- 13 for human production that hogs was two-and-a-half
- 14 times. What is the base for human production that
- 15 you are --
- MR. WEBER: I can't give you the
- 17 base.
- 18 MR. KING: Okay.
- 19 THE HEARING OFFICER: Thank you,
- 20 Mr. Weber. Yes.
- 21 MALE AUDIENCE MEMBER: Mr. --
- THE HEARING OFFICER: Please stand
- 23 and state your name.
- 24 MR. DuBUOIS: Bill DuBuois (phonetic

- 1 spelling) from Peoria County, I had a question for
- 2 the lady.
- MS. JOHNSON: I hope I can answer.
- 4 MR. DuBUOIS: What is your

- 5 definition of a mega hog farm?
- 6 MS. JOHNSON: Well, what I read in
- 7 the paper tells me what a mega hog farm is. So
- 8 many hogs. Too many hogs in one space.
- 9 MR. DuBUOIS: Is there a number?
- 10 MS. JOHNSON: Yes. I think that,
- 11 but I can't understand those damned animal units.
- 12 I want people to talk to me in terms of hogs.
- So tell me, what is 17,000 units?
- MR. DuBUOIS: I don't know.
- 15 MS. JOHNSON: I don't either, but we
- 16 know it's mega.
- 17 MR. DuBUOIS: Okay. Is 500 to 1,000
- 18 mega?
- 19 MS. JOHNSON: I don't think so. I
- 20 don't think so.
- 21 MR. DuBUOIS: Is 1,000 sows mega?
- MS. JOHNSON: I would say that it
- 23 wasn't in Knox County. I don't know about Peoria.
- MR. DuBUOIS: You say it is not?

- 1 MS. JOHNSON: To me, the family farm
- down around the corner with 500 sows or 1,000 sows
- 3 is not a mega hog operation. It's not a big
- 4 corporation coming in from some other state to
- 5 swipe up on Knox County.
- 6 MR. DuBUOIS: So your definition of
- 7 a mega hog farm is a corporate farm.

- 8 MS. JOHNSON: That is correct.
- 9 MR. DuBUOIS: I mean, if the
- 10 corporate farm has --
- MS. JOHNSON: But it's not a family
- 12 corporate farm.
- MR. DuBUOIS: If the corporate farm
- 14 had, I mean, 50 sows, that's a mega hog farm then,
- 15 right?
- MS. JOHNSON: Well, now you got me
- 17 that way, which is what you wanted to do in the
- 18 first place.
- 19 THE HEARING OFFICER: I think she
- 20 answered it. I think she answered the question.
- 21 MR. DuBUOIS: I had no idea what
- 22 your definition of mega was.
- MS. JOHNSON: Thank you.
- MR. DuBUOIS: Yes.

- 1 THE HEARING OFFICER: She answered
- 2 the question.
- Now we will turn to the testimony of --
- 4 I'm sorry. Hold on one moment. Could you come to
- 5 the front and state your name for the record?
- Is this question directed to Mr. Weber?
- 7 MR. KANE: I'm not sure. It's kind
- 8 of just to any of them that feels they want it, I
- 9 guess.
- 10 THE HEARING OFFICER: Could you

- 11 state your name then for the record?
- MR. KANE: Bill Kane, K-A-N-E.
- 13 THE HEARING OFFICER: Okay.
- 14 MR. KANE: I'm not originally from
- 15 this state, but I -- I've lived here long enough
- 16 that I figure that I have at least -- at least I
- 17 care. I don't know if all of you all do or not.
- 18 But I think this there is some important
- 19 things that most people kind of ignore. I didn't
- 20 ask any questions of some of the people earlier,
- 21 primarily because I didn't want to be too
- 22 argumentative, I suppose.
- 23 But when they come out and threaten, and
- 24 I think it's subtle threats, but they are

- 1 threatening, trying to say that too much regulation
- 2 on setbacks or whatever else has caused them to
- 3 move on. I say, go.
- 4 As far as I'm concerned, it's -- any time
- 5 you see something that's too good to be true, it
- 6 often is.
- 7 THE HEARING OFFICER: Mr. King
- 8 (sic), is this a question?
- 9 MR. KANE: I'm wondering why they
- 10 defend themselves without covering all of the
- 11 issues. And when you come up and bring up the
- 12 possibility of pollution and this, that and the
- 13 other, they graze over that, and they talk about

- 14 numbers as an important business opportunity. I
- 15 just think it's --
- 16 THE HEARING OFFICER: I think this
- 17 was supposed to be something that's more --
- MS. MANNING: If I could -- I'll
- 19 just interject, if I could here. That maybe --
- 20 maybe we need to sort of talk a little about bit
- 21 the role of the Board in these proceedings.
- It is our job to assess all of the
- 23 evidence and the testimony before us and to develop
- 24 a rule which is environmentally responsible and

- 1 economically justified at the same time.
- 2 So a lot of concerns that you are talking
- 3 about and a lot of issues. This is only one of
- 4 five hearings that we are having throughout the
- 5 state. And trying to do a very good job with all
- 6 those interests presented to us.
- 7 And we appreciate your concern and your
- 8 comments, and we appreciate the concerns and
- 9 comments really of all of the citizens and
- 10 industry. And it's our job to take all of those
- 11 concerns and all of those comments and all of the
- 12 scientific evidence and economic evidence that's
- 13 been presented. And very much a really responsible
- 14 role in developing the rule proposed before us.
- 15 THE HEARING OFFICER: Thank you.
- 16 Yes, Mr. Weber.

- 17 MR. WEBER: May I add a sentence. I
- 18 believe that the pollution control should be a
- 19 performance specification and not X feet of
- 20 setback, X feet of that, X that, X that. It should
- 21 be a performance specification that everybody has
- 22 to follow, no matter if they have got ten sows in
- 23 confinement or 10,000 sows in confinement.
- 24 THE HEARING OFFICER: Thank you,

- 1 Mr. Weber.
- 2 MR. WEBER: And the reason I say
- 3 what I said is there should not be any septic
- 4 conditions allowed. And this is the way I believe
- 5 it should go about it. Thank you.
- 6 THE HEARING OFFICER: Thank you.
- 7 Thank you. Mr. St John, if you'd like to give a
- 8 summary of your testimony, because it's been
- 9 prefiled, that would be --
- 10 DR. ST JOHN: I would prefer not to
- 11 do that because of typographical errors in there,
- 12 which it says --
- 13 THE HEARING OFFICER: That's fine.
- DR. ST JOHN: It says somewhere, he
- 15 who would be first would be last. He who would be
- 16 first would be last. I'm last. I do appreciate
- 17 people staying through the day. I know it has been
- 18 a long day. But there are very important issues
- 19 yet to be discussed.

- 20 I am Bruce St John, a resident of Peoria
- 21 County, a farm owner in Stark County.
- 22 My family moved to the United States from
- 23 England in the 1700s and migrated to Illinois in
- 24 the 1840s. My brother still farms the ground that

- 1 they migrated onto in the 1840s. Growing up on a
- 2 centennial family farm in Stark County, I hold MA
- 3 and Ph.D. degrees in international relations with a
- 4 concentration in the field of economics. I make
- 5 that point simply because I'll be talking about
- 6 economic development a little later in the
- 7 presentation.
- 8 I've been a member of the Farm Bureau two
- 9 decades. I'm a founding member and executive board
- 10 member of the Illinois Citizens for Responsible
- 11 Practices.
- 12 On behalf of ICRP, I am pleased to have
- 13 this opportunity to input to the rulemaking process
- 14 for the Livestock Management Facilities Act and
- 15 applaud the Pollution Control Board for scheduling
- 16 a number of hearings around the state to allow for
- 17 broad public input.
- 18 Quite frankly, the dialogue we have had
- 19 today is one of best dialogs I've seen in the two
- 20 years I've been working this issue. Illinois
- 21 Citizens for Responsible Practices, most of whose
- 22 members are actively engaged in farming and/or

- 23 livestock production, organized in early 1995 to
- 24 foster public dialogue on the issue of large-scale

- 1 swine protection facilities in Illinois.
- 2 Our central objective since our founding
- 3 has been the development and enactment of the
- 4 rules and regulations necessary to ensure that
- 5 large-scale swine production facilities when they
- 6 locate in our state and in our communities act as
- 7 responsible citizens. In that regard, we view
- 8 large-scale swine production facilities not as an
- 9 extension of the family farm familiar to all of us
- 10 but as a new form of industrial agriculture new to
- 11 Illinois, which necessitates totally new rules and
- 12 regulations, not simply minor modifications to
- 13 existing ones.
- We urge the Board to recognize
- 15 large-scale livestock production facilities for
- 16 what they are. A new form of industrial farming,
- 17 often corporately owned, which because of ownership
- 18 size and management requires a new level of
- 19 regulation in a variety of areas, like site
- 20 development, permitting waste disposal, and
- 21 enclosure. And we are pleased to see in the
- 22 preamble of the emergency rules promulgated in
- 23 October of '96 that type of recognition by the
- 24 Illinois Pollution Control Board.

- 1 We agree with the testimony of the
- 2 Illinois Pork Producers Association, the Illinois
- 3 Beef Association, and others, that the livestock
- 4 producers and farmers of Illinois have generally
- 5 been good stewards of the land and the state's
- 6 natural resources in the past.
- 7 Unfortunately, the recent performance of
- 8 large-scale, corporate, industrial farming
- 9 facilities around the country does not suggest we
- 10 can expect the same good stewardship from them,
- 11 unless statutory requirements governing this new
- 12 type of industry are in place and enforced.
- In March of 1995, Governor Jim Edgar
- 14 appointed a 19 member Livestock Industry Tax Force
- 15 to consider issues livestock production and to make
- 16 recommendations to the General Assembly. The
- 17 membership of the Governor's task force was largely
- 18 composed of livestock producers, together with
- 19 representatives of affiliated agri-businesses, most
- 20 of whom had a direct economic stake in task force
- 21 recommendations. ICRP was eventually allowed a
- 22 single seat on the 19-member task force.
- 23 Much of the work done by the task force
- 24 was accomplished by the environmental and social

- 2 group consisted of four ICRP members and five
- 3 members sympathetic to the large-scale livestock
- 4 interests. Considerable effort was put into the
- 5 multiple meeting of this working group, and limited
- 6 progress was made in selected areas like odor
- 7 control and operator certification.
- 8 Unfortunately, the final recommendations
- 9 of the working group were based on majority rule,
- 10 with the five members representing large-scale
- 11 livestock interests repeatedly outvoting the four
- 12 ICRP members.
- 13 And would add parenthetically, there was
- 14 some dialogue among us as to whether or not the
- 15 ICRP could add a fifth member, that is true, toward
- 16 the end of the total process. Those members on the
- 17 working group were told that Renee Robinson
- 18 (phonetic spelling), who is the executive director
- 19 for the Illinois Stewardship Alliance was
- 20 considered an ex-officio and could become a member
- 21 of the working group. However, if she chose to
- join the working group, bringing the ICRP members
- 23 to five, the other side would expect also to add to
- 24 the group. So it would be six to five, instead of

- 1 five to four.
- 2 In consequence, the recommendations of
- 3 the environmental social issues working group which
- 4 became the essence of the Livestock Management

- 5 Facilities Act, failed to address fully issues in
- 6 the area like site definition, public notice,
- 7 construction and operation permits, manure
- 8 management plans, sliding scale setbacks, closure
- 9 requirements, and a realistic fee and fine
- 10 schedule. Because the recommendations of the
- 11 Governor's task force did not reflect adequately
- 12 the viewpoints of concerned citizens, ICRP asked
- 13 permission to circulate a minority report.
- 14 While we were assured by the Governor's
- 15 office that a minority report, which was directed
- 16 to Governor Edgar on February 19th, 1996, would be
- 17 circulated, to our knowledge, this was never done.
- 18 I want to add a parenthetical there.
- 19 This morning, deputy director Boruff said
- 20 that those with opposing views were given an
- 21 opportunity to author a minority report. I wrote
- 22 the minority report. I submitted the minority
- 23 report to the Governor's office, to the people on
- 24 the Governor's staff that I was told to give the

- 1 report to. No one ever saw the report after that
- 2 point. Bill Wright, who was on the Governor's task
- 3 force, did not receive a copy of it. Members of
- 4 the working group did not receive a copy of it. It
- 5 was never reported on in the press, and I've never
- 6 found anyone in state government who saw the
- 7 minority report.

- 8 So I wish we would please stop saying
- 9 that there was an opportunity to circulate a
- 10 minority report, if there was not. If there was,
- 11 please show us who got it.
- 12 Today I will direct my testimony to three
- issues; siting, economic development, and closure,
- 14 especially pertinent to the rulemaking process.
- These are only a few of the ICRP's
- 16 concerns related to the rules. And other ICRP
- 17 members will testify in the course of the hearings
- 18 on other issues. Some of that testimony has
- 19 already been given.
- 20 On the subject of siting. The siting of
- 21 new facilities was a key issue discussed by the
- 22 environmental and social issues working group.
- 23 ICRP members took the position that the setback
- 24 revisions in Title 35 were inadequate. There is a

- 1 typo in the distributed prefiled testimony of
- 2 mine. It says adequate, when it should say
- 3 inadequate. And I would ask people to correct
- 4 that. Were inadequate for large-scale livestock
- 5 facilities because of their size and the consequent
- 6 amount of animal waste produced for disposal. In
- 7 the course of the deliberations, the Illinois
- 8 Environmental Protection Agency, the Illinois
- 9 Department of Agriculture and the Illinois Pork
- 10 Producers Association investigated varying setback

- 11 requirements to determine if an exclusionary effect
- 12 on siting facilities would result from different
- 13 setback distances.
- 14 Survey results dated January 12, '96,
- 15 covered one township in each of 19 counties in this
- 16 preliminary siting survey. For those of you who
- don't realize, there are 1,064 townships in the
- 18 state of Illinois. So less than 2 percent of the
- 19 townships were covered in this preliminary survey.
- Those 19 counties, and 19 townships, one
- 21 in each county were selected because large-scale
- 22 livestock facilities were either already located in
- 23 them, proposed for them, or thought likely to be
- 24 proposed for them in the future. The actual survey

- 1 work in the selected sample of Illinois townships
- 2 was then conducted by members of the Agency,
- 3 Department and the Illinois Pork Producers
- 4 Association, with the Illinois Concerned Citizens
- 5 for Responsible Practices, or other concerned
- 6 citizens involvement only in the case of one study,
- 7 the Edgar County survey.
- 8 My brother, as I've indicated, also owns
- 9 farmland in Essex Township, Stark County, one of
- 10 the townships surveyed. But he was not involved in
- 11 the survey, even though he was a member of the
- 12 environmental and social issues working group of
- 13 the Governor's Livestock Industry Task Force and

- 14 did volunteer to participate in the survey.
- 15 My point is that this preliminary survey
- 16 of new facility setback requirements was nothing
- 17 more or less than a preliminary survey conducted,
- 18 in large part, by organizations and individuals
- 19 vocal in their promotion of large-scale livestock
- 20 production facilities in Illinois. The results of
- 21 the survey suggest that there are some townships in
- 22 some counties where extending setback requirements
- 23 would limit the number of sites available to
- 24 construct large-scale livestock facilities.

- 1 However, there is simply not enough reliable data
- 2 available in this preliminary survey to conclude
- 3 that extending facility setback requirements would
- 4 pose an unacceptable burden throughout the state.
- 5 On the contrary, there remains in our
- 6 minds every reason to believe that new facility
- 7 setback requirements could be extended to and
- 8 beyond the limits of the Livestock Management
- 9 Facilities Act and still leave adequate siting
- 10 available in Illinois for large-scale livestock
- 11 production facilities. A thorough, detailed and
- 12 independent study of all the counties and townships
- in Illinois is required to resolve this question,
- 14 and we urge the Board to support completion of such
- 15 a study.
- In addition, we urge the Board to use

- 17 livestock lagoon capacity, as well as distance from
- 18 any and all residences, farm and non-farm, as a
- 19 means to determine adequate setbacks. The
- 20 incorporation of lagoon capacity into the setback
- 21 equation offers the real advantage of tying closely
- 22 any new regulations to large-scale livestock
- 23 facilities for ones we are seeking to regulate
- 24 while separating them and avoiding the consequent

- 1 additional regulations on small to medium
- 2 producers.
- 3 And I was going to submit as an exhibit
- 4 the summary report on the survey, but I think
- 5 that's already been done today, so I don't feel I
- 6 need to do that.
- 7 THE HEARING OFFICER: Yes.
- 8 DR. ST JOHN: Second Section relates
- 9 to economic development issues. And before I get
- 10 into that Section, I'm going to submit as an
- 11 exhibit and introduce to the group a document
- 12 called large-scale production facilities, a select
- 13 bibliography from Illinois Citizens for Responsible
- 14 Practices. 12-page bibliography we have put
- 15 together over the last two years of articles
- 16 pertinent to this subject. I will be referring to
- 17 a selected number of studies in the course of the
- 18 discussion. Details can be found in this
- 19 document. Submit that as an exhibit now. And

- 20 anyone who would like the copy of the document
- 21 later, if they want to refer to some of these
- 22 studies, feel free to take one.
- The proponents of large-scale livestock
- 24 production facilities typically try to sell them to

- 1 the occupants of surrounding farms and communities
- 2 on the basis of the economic development they will
- 3 bring to local residences and businesses.
- 4 They often emphasis high-paying
- 5 construction and later livestock management jobs,
- 6 locally produced materials and feeds, and higher
- 7 local tax payments. This is a story we heard in my
- 8 hometown of Wyoming, and it is the same story the
- 9 citizens in Beardstown, Elmwood, and elsewhere
- 10 throughout the state are hearing today. In fact,
- 11 the truth of the matter is far different from the
- 12 myths and misconceptions being circulated about the
- 13 salespersons for large-scale facilities.
- 14 First of all, large-scale livestock
- 15 production facilities tended to displace more jobs
- 16 than they create. A University of Missouri
- 17 study -- I'm going to submit that as an exhibit
- 18 right now. It's entitled, Farm Spending and Local
- 19 Selling, How Do They Match Up? Authored by John
- 20 Chism, C-H-I-S-M, and Richard Levins, L-E-V-I-N-S.
- 21 And it was published in Spring 1994 in the
- 22 Minnesota -- I'm getting confused. I'm sorry. I'm

- 23 giving the Minnesota instead of the Missouri one.
- 24 Let me carry on with that then. It was

- 1 entered -- it was published in Spring of 1994 in
- 2 the Minnesota Agricultural Economist. I'm going to
- 3 drop down to the next paragraph and make that point
- 4 and come back to the University of Missouri study.
- 5 Large-scale livestock production
- 6 facilities are less likely to do business locally
- 7 than our small- to medium-sized producers. A
- 8 Minnesota study found that livestock operations
- 9 grossing under 400,000 a year spent 79 percent of
- 10 their business expenditures within 20 miles of
- 11 their farms. Large-scale facilities spend less
- 12 than 50 percent.
- 13 I'm going to come back to the paragraph
- 14 above and introduce the Missouri study then, which
- 15 is entitled, The Economic Impacts of Increased
- 16 Contract Swine Production in Missouri, Another
- 17 Viewpoint. It's by John Ikerd. He's with the
- 18 sustainable agricultural systems program at the
- 19 University of Missouri. University of Missouri
- 20 found that the independent producers create three
- 21 times as many jobs as corporate contract hog
- 22 production.
- 23 In short, the key to a healthy rural
- 24 economy in Illinois is not the number of hogs

- 1 produced, but rather the number of hog producers.
- 2 We need to ensure that small- to medium-sized pork
- 3 producers in Illinois have a level playing field
- 4 with the large-scale producers seeking to locate
- 5 here from outside the state. Large-scale,
- 6 corporate producers are fully capable of promoting
- 7 their own self-interests and absorbing the costs
- 8 associated with this new type of industry.
- 9 Third, the profits from large-scale
- 10 facilities usually go down to outside investors.
- 11 I'm introducing as an exhibit a Virginia study
- 12 entitled, Economic Impact of the Swine Complex in
- 13 Southeast Virginia. It's authored by Susan
- 14 Thorsbury, T-H-O-R-S-B-U-R-Y, Murphy Kambhampaty,
- 15 K-A-M-B-H-A-M-P-A-T-Y, and David Kenyon. And
- 16 they're all affiliated with the Department of
- 17 Agriculture and Applied Economics at Virginia
- 18 Technical University.
- 19 The Virginia study compared the impact of
- 20 adding 5,000 sows to a local area through
- 21 large-scale production versus independent
- 22 producers. It found the independent producers
- 23 provided 10 percent more permanent jobs and 20
- 24 percent more local retail sales, increased local

- 2 Finally, studies show that large-scale
- 3 livestock facilities, because of the environmental
- 4 and other problems they raise, cause property
- 5 values near them to drop dramatically. Property
- 6 assessments for tax purposes then have to be
- 7 lowered, with the net result generally being a
- 8 lower tax base for counties, not the economic
- 9 growth and development promised.
- 10 Local government expenses, on the other
- 11 hand, increase because larger and heavier truck
- 12 traffic causes rural roads to deteriorate faster.
- 13 If a large-scale facility goes bankrupt or
- 14 otherwise goes out of business, the county
- 15 government can be left with an expensive cleanup
- 16 bill.
- 17 And we have again in our select
- 18 bibliography a subsection on the question of real
- 19 estate guides with three or four articles in there,
- 20 if anyone wants to pursue that thought in terms of
- 21 documentation.
- 22 What large-scale livestock production
- 23 facilities really do is to concentrate the
- 24 livestock industry in a few communities which are

- 1 hard hit by the environmental consequences of these
- 2 facilities. At the same time, such facilities
- 3 displace the independent livestock producers,
- 4 draining other rural areas of farm jobs and

- 5 income.
- 6 Proponents of large-scale livestock
- 7 production in Illinois argue that the potential
- 8 economic losses which may come from properly
- 9 regulating such facilities in our state outweigh
- 10 any environmental gains from putting in place
- 11 adequate rules and regulations. We believe the
- 12 available evidence, based on experience of other
- 13 states, supports the opposite conclusion.
- 14 Large-scale livestock production facilities, while
- 15 they pose a real threat to rural economic
- 16 development, are fully capable of supporting
- 17 economically the new rules and regulations
- 18 necessary and required for corporate, industrial
- 19 agriculture.
- 20 The third Section and the final Section
- 21 relates to closure requirements. The issue of
- 22 closure requirements and costs is the final
- 23 question we wish to discuss.
- In cases of abandonment, closure and/or

- 1 nonpayment of taxes, the potential cleanup costs
- 2 for large-scale livestock production facilities
- 3 will be considerable, given their overall size and
- 4 the size of the lagoons in particular. These costs
- 5 should be borne by the responsible parties and not
- 6 by the county taxpayers in which such facilities
- 7 locate. In anticipation of this eventuality, we

- 8 have -- we have advocated the state of Illinois
- 9 should create a large-scale livestock production
- 10 facility indemnity fund as a separate account in
- 11 the state treasury.
- This fund would consist of monies from
- indemnity fees remitted by large-scale livestock
- 14 production facilities. Sums collected on behalf of
- 15 the fund through legal action or settlement, civil
- or criminal penalties assessed and collected
- 17 against large-scale livestock production
- 18 facilities, interest, properties, securities
- 19 acquired through the use of monies in the fund, and
- 20 monies contributed for the purpose of funds from
- 21 other resources.
- The monies deposited in the fund would be
- 23 appropriated for the exclusive purpose of
- 24 indemnifying a county for expenses related to

- 1 cleaning up the site of large-scale livestock
- 2 production facilities, including the removal and
- 3 disposal of livestock waste from livestock waste
- 4 handling and storage facilities.
- 5 Unfortunately, the Livestock Management
- 6 Facilities Act does not create an indemnity fund,
- 7 but requires operators prior to beginning operation
- 8 to demonstrate financial responsibility. Or more
- 9 simply put, that they have enough financial
- 10 resources to close down their lagoons, if

- 11 necessary.
- 12 Regarding the level of surety required in
- 13 the Act, Department of Agriculture has testified
- 14 that the Board should allow the Department to
- 15 promulgate rules to determine the level of surety.
- 16 Illinois Citizens for Responsible Practices
- 17 believes the Board should promulgate regulations to
- 18 determine the level of surety required to ensure
- 19 financial security of an operation. The statute
- 20 for financial security in the LMFA was seemingly
- 21 modeled after the regulations on financial security
- 22 for landfill operators in Title 35, Subtitle G,
- 23 subpart F. The regulations already have a working
- 24 formula that could be adopted relatively easily for

- 1 the livestock regulations. The formula establishes
- 2 a level of surety based on the volumetric capacity
- 3 of the landfill.
- 4 The procedures for closing a landfill and
- 5 closing a lagoon may be different and the formula's
- 6 variables will change. However, the formula to
- 7 determine the cost for closing a landfill offers a
- 8 good start. Moreover, subpart F of the waste
- 9 disposal regulations includes regulations on the
- 10 use of financial instruments. What exactly
- 11 constitutes evidence of financial responsibility if
- 12 an operator wants to use a letter of credit or
- 13 perhaps commercial-provided insurance? Beginning

- 14 with Section 807.640, the waste disposal
- 15 regulations offer guidance on these questions, and
- 16 the Board should use those regulations as a model
- 17 to promulgate rules for Section 506.602 of the
- 18 livestock regulations.
- 19 Regarding the lagoon closure in the
- 20 proposed regulations, Section 506.209, subparagraph
- 21 A, subparagraph 2, allows the Department to grant a
- 22 waiver to closure requirements that will permit the
- 23 lagoon to be used for an alternative purpose. The
- 24 Board should clearly specify which alternative

- 1 purposes will qualify for a waiver. The Department
- 2 of Agriculture has not adequately explained what
- 3 some of these alternative uses might be. If the
- 4 alternative use still requires the structure to
- 5 hold livestock waste, these Livestock Waste
- 6 Regulations should remain applicable to the new
- 7 owners of the structure, and a waiver in this case
- 8 would not be necessary. If the alternative use
- 9 does not pertain to livestock waste, the owner will
- 10 still have to remove the waste, and the regulations
- 11 on closure should apply to the new owners as they
- 12 did to the previous ones.
- 13 Furthermore, on closure, Section 506.209,
- 14 subparagraph 3, subparagraph B of the regulations
- 15 should clearly state that if ownership of the
- 16 lagoon is transferred, the new owner should be

- 17 subject to all regulations for livestock waste
- 18 lagoons until the facility ceases to be utilized as
- 19 a livestock waste lagoon.
- In conclusion, and I know you are all
- 21 glad to hear in conclusion, we would like to thank
- 22 the Board for the opportunity to testify publicly
- 23 on these very important issues. We appreciate the
- 24 attention the Board has devoted to assisting groups

- 1 like the Illinois Citizens for Responsible
- 2 Practices to understand the hearing process and
- 3 prepare for these hearings.
- 4 In the Spring of 1996, Illinois lawmakers
- 5 and members of the Edgar administration described
- 6 the Livestock Management Facilities Act as a
- 7 necessary first step in the process of developing
- 8 adequate rules and regulations for large-scale
- 9 livestock production facilities in Illinois. The
- 10 common argument heard at the time was that any
- 11 regulation of large-scale livestock facilities
- 12 would be better than no regulation.
- Now is the time to flesh out and
- 14 implement the Livestock Management Facilities Act
- 15 through the rulemaking process, even as we seek to
- 16 develop and strengthen the law through additional
- 17 legislation. We commend the Illinois Pollution
- 18 Control Board for the role it has played in this
- 19 process, and we look forward to working with the

- 20 Board through the -- the remainder of the hearing
- 21 and in the future as we work towards this result.
- Before we get questions, I would like to
- 23 add a couple more exhibits. Should I do that now?
- 24 THE HEARING OFFICER: Certainly. I

- 1 have the two here. We could go through the ones
- 2 first that you have submitted.
- 3 DR. ST JOHN: Okay. And I have then
- 4 four separate articles by Michael Duffy, who is
- 5 with the Iowa State University, all relating to
- 6 economic development.
- 7 THE HEARING OFFICER: Okay.
- 8 DR. ST JOHN: Copy of the select
- 9 bibliography. And an article I referred to this
- 10 morning from the Federal Reserve Bank of Chicago
- 11 entitled, Industrialization in Hog Production,
- 12 Implications for Midwest Agriculture, which came
- 13 out a couple of weeks ago, which is excellent.
- 14 Some of Dr. DiPietre's work. A letter from the
- 15 Cherokee County Board of Supervisors, Cherokee,
- 16 Iowa, depicting problems related to cleaning up a
- 17 ten-acre lagoon in Cherokee County, which the
- 18 county acquired through tax delinquency. And which
- 19 when they first acquired it in 1991, estimated cost
- of cleanup was 250 to \$300,000. They still haven't
- 21 been able to clean it up. And, of course, the cost
- 22 of cleanup has gone up since then.

24 submit.

- 1 THE HEARING OFFICER: Thank you,
- 2 Mr. St John. Okay. Then, we will mark as Exhibit
- 3 No. 30, and enter into the record large-scale swine
- 4 production facilities, a select bibliography from
- 5 the Illinois Citizens for Responsible Practices.
- 6 Entering into the record as Exhibit
- 7 No. 31 an article in the Minnesota Agricultural
- 8 Economist entitled, Farm Spending and Local
- 9 Selling, How Do They Match Up.
- 10 Enter into the record Exhibit No. 32,
- 11 article entitled, Economic Impact of the Swine
- 12 Complex in Southeast Virginia.
- 13 Enter into the record as No. 33, an
- 14 article entitled, The Economic Impacts of Increased
- 15 Contract Swine Production in Missouri.
- 16 Enter into the record as Exhibit No. 34,
- 17 article entitled, Are We Out of Control, by Michael
- 18 Duffy, from the Iowa State University.
- 19 And enter into the exhibit as Exhibit
- 20 No. 35, Economic Perspectives, a Review From the
- 21 Federal Reserve Bank of Chicago, dated January
- 22 February of 1997.
- 23 And lastly mark as Exhibit No. 36, the
- 24 Cherokee County Board of Supervisors, courthouse

1 letterhead, from Cherokee, Iowa, letter to the

- 2 county board of supervisors.
- 3 Thank you, Mr. St John. And we will now
- 4 take a ten-minute break.
- 5 (Recess taken at 3:08 p.m.)
- THE HEARING OFFICER: Back on the
- 7 record. Now we will proceed with prefiled
- 8 questions filed by Ross and Hardies on behalf of
- 9 the Illinois Pork Producers directed to -- to
- 10 Mr. Bruce St John. Mr. Harrington.
- 11 MR. HARRINGTON: I'll try and speak
- 12 loud enough so I can be heard. And I'm going to
- 13 try to skip through these questions and see if we
- 14 can get through them quickly.
- 15 Sir, do you -- what is your occupation?
- DR. ST JOHN: First of all, let me
- 17 just comment that the prefiled questions were
- 18 excellent. I wrote out prefiled question answers,
- 19 so I will read those.
- I am employed in a marketing position
- 21 with a Peoria-area company.
- MR. HARRINGTON: Do you own or
- 23 operate any livestock facilities?
- DR. ST JOHN: I own farmland in

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1 Stark County, including a share in a centennial

- 2 family farm. Family members have been involved in
- 3 the livestock industry in Illinois for over 100
- 4 years, but I do not currently own or operate a
- 5 livestock facility.
- 6 MR. HARRINGTON: Were you a member
- 7 of the Livestock Industry Task Force or any of the
- 8 working committees?
- 9 DR. ST JOHN: I have a long answer
- 10 to that. The answer is, no, I have not. I was
- 11 asked to be, but because of my heavy business
- 12 schedule, I could not accommodate the meetings.
- MR. HARRINGTON: Would you consider
- 14 a family owned and operated farm with more than
- 15 7,000 animal units to be a family farm or a, quote,
- 16 large-scale swine production facility, close
- 17 quote?
- 18 DR. ST JOHN: I would consider it to
- 19 be a large-scale livestock production facility
- 20 owned and operated by a single family.
- 21 MR. HARRINGTON: Perhaps you could
- 22 define what you mean by large-scale swine
- 23 production facility.
- 24 DR. ST JOHN: I think we are

- 1 addressing here a question of size, and we get into
- 2 that a little later. But let me just tackle it
- 3 right now. Maybe we can skip the question four
- 4 then.

- 5 In the emergency rules dated 29 October
- 6 1996, the Illinois Pollution Control Board
- 7 recognized that the current regulations specific to
- 8 livestock waste management facilities promulgated
- 9 long before the current agricultural changes and
- 10 trends identified by the legislature in adopting
- 11 the Livestock Management Facilities Act were in
- 12 place.
- 13 Pollution Control Board then concluded
- 14 that the immediate adoption of specific regulations
- 15 tailored to the design of facilities with a large
- 16 concentration of animals was necessary to ensure
- 17 the protection -- to ensure the protection of
- 18 animal natural resources. In fixing an
- 19 applicability threshold, the Pollution Control
- 20 Board ruled that livestock management facilities
- 21 with the design capacity of 300 animal units or
- 22 more were recognized in statute and regulation as
- 23 facilities with greater regulatory oversight was
- 24 needed to protect the environment.

- 1 I would add parenthetically that Danville
- 2 Township, Minnesota, and other places have also
- 3 come down as low as 300 animal units in terms of
- 4 where regulations should start.
- 5 For the purposes of site definition and
- 6 setbacks, Illinois Citizens for Responsible
- 7 Practices is in the basic same ballpark. We

- 8 consider a large-scale livestock production
- 9 facility to be one having a one-time maximum
- 10 designed capacity of 500 animal units or more.
- 11 MR. HARRINGTON: What was the basis
- 12 for selecting 500 animal units?
- DR. ST JOHN: Trying to give you a
- 14 short answer. I guess we looked at what all the
- 15 states where these facilities were in place we're
- 16 looking at in terms of regulations. Most of the
- 17 regulation seemed to start somewhere around three
- 18 to 800. So we arbitrarily said, let's look at
- 19 five. It could be three. It could be six. I'm
- 20 not sure the exact point is so critical, as
- 21 recognizing that at some point, large-scaled
- 22 facility begins.
- 23 If you look at the -- if I can just
- 24 counter a second. The point four factors for

- 1 conversion of -- of animal units to live- -- to
- 2 livestock. Point four or five hundred is 1250 pigs
- 3 weighing 55 pounds or more. It seems like a good
- 4 benchmark to start.
- 5 MR. HARRINGTON: In your testimony,
- 6 you urged the Board to use livestock lagoon
- 7 capacity as a means to determine adequate
- 8 setbacks. First of all, what is the relationship
- 9 between the livestock lagoon capacity and the need
- 10 for setback?

- 11 DR. ST JOHN: Livestock lagoon
- 12 capacity of a given livestock production facility
- is related generally rather closely to the maximum
- 14 design capacity of the facility animal units.
- 15 Therefore, we are just saying it seems -- seems
- 16 logical when you are looking at setbacks in
- 17 addition to using the maximum design capacity of
- 18 animal units, you ought to be looking at the
- 19 livestock capacity at the same time.
- This is, by the way, a natural tie-in to
- 21 the point I was making. I'm sorry if I
- 22 interrupted. A natural tie-in to the point I was
- 23 making earlier about volumetric capacity and
- 24 looking at landfill regs for surety and so forth.

- 1 Getting, again, the same kind of characteristics in
- 2 terms of how we are regulating these things.
- 3 MR. HARRINGTON: You recognized that
- 4 the statute now does not allow for that; is that
- 5 correct?
- DR. ST JOHN: Yes. I think.
- 7 MR. HARRINGTON: Thank you. In your
- 8 testimony, you referred to local producers
- 9 generating more economic development than
- 10 out-of-state producers coming in to the state. Is
- 11 that correct?
- DR. ST JOHN: What? Can you refer
- 13 me to which question you are on? You are

- 14 paraphrasing a little bit, and I'm getting confused
- 15 myself.
- MR. HARRINGTON: Basically question
- 17 six, which I think was mis-typed.
- DR. ST JOHN: Yes. I guess my
- 19 comment was, it wasn't really a question. I see
- 20 where you are coming from now. What I'm saying is,
- 21 my testimony is that there are a variety of studies
- 22 out there. Again, most of them, in the
- 23 bibliography we have distributed. Variety of
- 24 studies showing that small, medium-sized,

- 1 owner-operated local producers produce more jobs
- 2 and are more likely to do business locally than
- 3 corporate-owned, large-scale livestock production
- 4 facilities.
- 5 Again, in a word, it's not the number of
- 6 hogs produced in a given township, county or state,
- 7 but rather the number of hog producers is the key
- 8 to economic growth, development and prosperity in a
- 9 rural community.
- 10 MR. HARRINGTON: When you say the
- 11 number of hog producers, in order for them -- there
- 12 to be hog producers, they have to be viable
- 13 economic units. Is that not correct?
- DR. ST JOHN: That is correct.
- MR. HARRINGTON: And do you have any
- 16 personal opinion as to what is a viable economic

- 17 unit for hog production now?
- DR. ST JOHN: I'd have to say, no, I
- 19 don't.
- MR. HARRINGTON: Okay. Would a 1200
- 21 sow farrow-to-finish operation be a viable unit?
- DR. ST JOHN: I would think so,
- 23 looking at what I see around the state today.
- MR. HARRINGTON: Uh-huh. Do you

- 1 know how much smaller it could be and still be a
- viable, independent unit?
- 3 DR. ST JOHN: Never seen any studies
- 4 on that. But whether or not they exist, I don't
- 5 know.
- 6 MR. HARRINGTON: Thank you.
- 7 Referring to the University of Missouri study you
- 8 mentioned in your testimony. It shows that
- 9 large-scale production facilities -- does it show
- 10 that large-scale production facilities displace
- 11 jobs, or that independent producers, if that
- 12 distinction can be drawn, create more jobs than
- 13 corporate contract hog production?
- DR. ST JOHN: What the study
- 15 concluded was that independent producers created
- 16 three times as many jobs as corporate contract hog
- 17 production. If I can quote just a couple of
- 18 sentences from that study. It said: Large-scale
- 19 specialized operations produced more hogs per

- 20 person employed, and consequently create fewer jobs
- 21 per hog produced. Consequently, large-scale
- 22 contract production employs far fewer people than
- 23 would be employed to produce the same number of
- 24 hogs in a typical owner-operated hog farm.

- 1 Some of the difference in employment is
- 2 accounted for by the fact that many hog farmers
- 3 produce a significant portion of their own feed,
- 4 whereas contract operators often purchase their
- 5 feed from outside suppliers. Management functions
- of independent hog producers are often performed in
- 7 contract operations by off-farm supervisors or
- 8 corporate managers.
- 9 MR. HARRINGTON: Do you have any
- 10 reason to believe that if Illinois could somehow
- 11 write rules that kept out the corporate contract
- 12 hog production by out-of-state corporations, that
- 13 that production would not occur, or would it simply
- 14 move to other states where it is welcome?
- 15 DR. ST JOHN: Let me make two points
- 16 in answering your question. First of all, I want
- 17 to emphasize again that the Illinois Citizens for
- 18 Responsible Practice is not trying to ban
- 19 large-scale livestock production facilities or
- 20 corporate contract production in Illinois. What we
- 21 are trying to see put in place is rules and
- 22 regulations to cause them to behave as responsible

- 23 citizens. That's point one.
- 24 Point two. In terms of the issue of

- 1 these facilities going somewhere else, there is not
- 2 a lot of evidence I guess one way or the other.
- 3 Someone talked this morning about what happened in
- 4 the state of Nebraska where they banned -- I don't
- 5 know whether -- banned is probably a strong word.
- 6 They wrote very strong corporate farm regulations
- 7 two or three decades ago. What happened in
- 8 Nebraska is -- is that they have been able to
- 9 maintain a level of pork production that they had a
- 10 decade or more ago. At the same time, they have
- 11 been able to maintain about the same number of hog
- 12 producers.
- In states like North Carolina, and I
- 14 showed that chart this morning, what we are seeing
- 15 is that as we get increases in hog production in
- 16 these states which had been going the large-scale
- 17 corporate contract route. We are seeing a real
- 18 decrease in the number of hog producers. I tried
- 19 to get that -- to discuss that a little bit with
- 20 Dr. DiPietre this morning. We didn't get too far
- 21 with it, I guess. But there is some correlation
- 22 there between welcoming the large-scale corporate
- 23 producers and seeing fewer and fewer people
- 24 involved in the pork industry in a given state, it

- 1 looks to me like.
- 2 MR. HARRINGTON: Do you have any
- 3 specific studies to refer to in that regard?
- DR. ST JOHN: Only the ones that I
- 5 have prefiled, plus -- give me just a second. The
- 6 center for rural affairs in Nebraska is the best
- 7 source for the Nebraska case really. In terms of
- 8 North Carolina, I think the stuff I prefiled pretty
- 9 well tells the story in terms of what's happening
- 10 there in terms of numbers of pigs versus numbers of
- 11 pig producers.
- 12 MR. HARRINGTON: I'm asking whether
- 13 you are aware of any studies that show the causal
- 14 relationship between the presence of the
- 15 large-scale producers and the small producers?
- MR. ST JOHN: No. Although, I would
- 17 recommend -- I mentioned earlier in my testimony
- 18 the study by the Federal Reserve Bank of Chicago
- 19 done by an economist. So I'm not sure. His
- 20 conclusions are somewhat different from what
- 21 Dr. DiPietre was saying. But what this generally
- 22 is concluding is that over the last decade,
- 23 productivity gains have meant that fewer hog
- 24 farmers today can produce the same number of pork

- 2 that logically sounds reasonable. He then goes on
- 3 to say that today 43 mega producers in the United
- 4 States own 29 percent of all sows. 43 mega
- 5 producers own 29 percent of all sows and account
- 6 for around 40 percent of all the pigs born an
- 7 raised nationwide.
- 8 So it looks to me like there is a
- 9 prevailing trend in terms of a smaller number of
- 10 hog farms and simultaneous increase in their size.
- 11 So that might be one document I would refer people
- 12 to, if you are interested in that subject.
- MR. HARRINGTON: Are you familiar
- 14 with a document entitled, Measured Effect of
- 15 Feedlots on Residential Property Values in
- 16 Minnesota, Report to the Legislature, June 1996?
- 17 MR. ST JOHN: No. I don't think I
- 18 am.
- 19 MR. HARRINGTON: It has already been
- 20 introduced in the record in this proceeding. But
- 21 just for those in attendance, I think it's a fair
- 22 summary to say it was surprised -- would it
- 23 surprise you to know that it concluded that, in
- 24 fact, the presence of feedlots did not adversely

- 1 impact property values, but had a positive impact
- 2 on residential property values?
- 3 MR. ST JOHN: I would say that the
- 4 three studies I have on real estate values are

- 5 dated 1995, '95 and '93, and they all came to an
- 6 opposite conclusion.
- 7 I'd be very much interested in getting
- 8 a copy of the report and adding it to the
- 9 bibliography.
- 10 MR. HARRINGTON: This is the study
- 11 of June of 1966 (sic).
- 12 MR. TABER: '96.
- 13 MR. KING: '96.
- MR. HARRINGTON: What did I say?
- 15 MR. TABER: '66.
- MR. HARRINGTON: '96. Dyslexia is
- 17 fun.
- 18 We will provide you a copy of this.
- DR. ST JOHN: Appreciate it.
- 20 MR. HARRINGTON: I think that's all
- 21 the questions we have.
- 22 THE HEARING OFFICER: Thank you,
- 23 Mr. Harrington. Yes. Would you please come on
- 24 up.

- 1 MR. KING: My name is Keith King.
- 2 I'm a farmer in Knox County. Have been all my
- 3 life. I don't have a Ph.D. or M.D. or anything
- 4 like that. About 85 years of experience dealing
- 5 with animal and animal products, things of that
- 6 kind.
- 7 Back -- probably the first time I heard

- 8 of EPA, back maybe probably they just got started
- 9 at the time. I was the only dairyman at the time
- 10 setting up animal waste regulations for the
- 11 Illinois EPA at that time back, I don't know how
- 12 many years, but I'd say about 25 years.
- 13 I've also -- in addition to other things,
- 14 I've served on the Board of Review of Knox County
- 15 mostly through the 1980s. The three-man Board of
- 16 Review who -- and all of 1980. I've been a man of
- 17 that three-man Board of Review and had causes that
- 18 conform to value and quite a few fairly large
- 19 operations in this county. And we have to contend
- 20 with those quite a bit.
- 21 I'm also -- our family has quite a large
- 22 hog operation. I have an interest in it. I don't
- 23 do the actual work anymore. But someone else
- 24 does. So those are my experiences.

- 1 Mr. St John, I disagreed with some things
- 2 that you said. First place, you say that on the
- 3 bottom of page three, study showed large-scale
- 4 livestock facilities, because of environmental and
- 5 other problems they raise, cause property values
- 6 near them to drop dramatically.
- 7 I guess my experience through APA (sic)
- 8 is quite extreme opposite of that. I feel that if
- 9 the proposed regulations become final and are
- 10 adhered to, there is no reason for the possibility

- 11 of any deterioration in the area tax base. In my
- 12 experience, extreme opposites have been true.
- 13 How did you come up with the statement
- 14 that they were deteriorating? You certainly know
- 15 the way the soils are valuated in this county, in
- 16 this state. You say you own a farm. You know how
- 17 the per acre dollars come back each year.
- 18 How -- how would you arrive at that in
- 19 the state of Illinois, that valuations would
- 20 deteriorate?
- DR. ST JOHN: Based on the studies
- 22 that I spoke about a little earlier. There are a
- 23 variety of studies of property values near
- 24 large-scale livestock production facilities.

- I think we have to be careful here as we
- 2 talk about issues like this, that we are not
- 3 thinking about mom and dad's old farm a little bit
- 4 bigger. We are talking about the big facilities.
- 5 MR. KING: That's what I'm thinking
- 6 about.
- 7 DR. ST JOHN: You have one of those
- 8 within a quarter mile of your house, studies have
- 9 shown that people are not real interested in buying
- 10 a home from you.
- 11 MR. KING: You realize that the
- 12 values per acre of land will not go down, except on
- 13 the very acres that those hogs are set on. Then

- 14 according to the statute in Illinois -- say there
- is a ten-acre big hog operation occupying the
- 16 building in the road. Go down to one-sixth in
- 17 value otherwise. But the value of the operation of
- 18 the buildings put up on that, on those facilities,
- 19 multiply that by thousands of times, and a few
- 20 dollars taken off for those places.
- 21 Certainly in our experience in Knox
- 22 County, the issue of many big operations have
- 23 enhanced the tax base a large extent.
- DR. ST JOHN: I would agree with you

- 1 that farmland uses farmland just because it's in
- 2 near proximity, because it's in -- the value of
- 3 that land would probably not be affected, unless
- 4 over time with the waste disposal you got into a
- 5 situation where you have problems with the land
- 6 itself in terms of either heavy metals or
- 7 over-application of nitrogen, phosphorus, pot ash,
- 8 whatever.
- 9 In general, I would accept your
- 10 statement.
- 11 MR. KING: Okay. Another where I
- 12 disagreed with you -- pretty definitely disagreed
- 13 with you, with expensive cleanup here, for
- 14 instance, if one of these things closed down. One
- 15 time in our hog operation, we had a lagoon. We
- 16 decided to do away with the lagoon. Used other

- 17 methods instead. Cost very little to close that
- 18 down.
- When you talk toxics, we don't have
- 20 really a lot of toxic waste in a setup of that
- 21 kind.
- We can take one filling station, you
- 23 know, where there are tanks in the ground, costs
- 24 them hundreds of thousands of dollars to clean that

- 1 up. We think as far as dealing with closing up a
- 2 facility and went down, because lagoon or
- 3 something in it and manure, we -- we are under
- 4 all -- the assumptions I'm making is that Illinois
- 5 Pollution Control Board comes up with adequate
- 6 recommendations and that are finally adopted. And
- 7 then I think you are overestimating or trying to
- 8 make people think maybe that this closing up these
- 9 toxic -- these dumps is going to come out to a lot
- 10 of money. I can't see it. I see very little
- 11 effect.
- DR. ST JOHN: Well, the example I
- 13 cited here was a concrete example from Cherokee
- 14 County, Iowa, where they have a ten-acre lagoon
- 15 that's full that the county inherited through a tax
- 16 delinquency situation. The estimated cost of
- 17 cleanup to DNR when they took over -- the county
- 18 took over the lagoon in 1991, the Iowa DNR,
- 19 Department of Natural Resources, told them they

- 20 have to clean it up. It holds 17 million gallons
- 21 of animal waste. An estimated cost to clean up in
- 22 1991, was 250 to 300,000. I would consider that a
- 23 significant amount of money for most counties to
- 24 have to come up with.

- 1 MR. KING: Certainly many farmers in
- 2 the area, if they wanted fertilizer on the ground,
- 3 they would have been glad to pump that out and take
- 4 it and dispose of it. Then all they have to worry
- 5 about then is pumping.
- 6 THE HEARING OFFICER: Mr. King, just
- 7 make sure that you are asking a question and not
- 8 having a debate.
- 9 MR. KING: Okay. I think that's
- 10 all. I have some other things for to differ with
- 11 you.
- 12 THE HEARING OFFICER: You can bring
- 13 that up, but -- and you can bring up the other ones
- 14 in testimony, if you want to provide testimony
- 15 later.
- MR. KING: Thank you.
- 17 THE HEARING OFFICER: Any other
- 18 questions for Mr. St John? Thank you,
- 19 Mr. St John. You may sit down.
- DR. ST. JOHN: Thank you very much.
- 21 THE HEARING OFFICER: What we would
- 22 like to do now is then proceed to the people who

- 23 have signed up on the sign-up sheet to testify
- 24 today who have not prefiled their testimony.

- 1 And what I will do is call the first five
- 2 people, and you can come and have a seat up in
- 3 front. Swear you in and begin with your
- 4 testimony. I know Mrs. Johnson has already
- 5 spoken. Dale Ward, is he present? Okay. Mary
- 6 Kuck.
- 7 MS. KUCK: Kuck.
- 8 THE HEARING OFFICER: Kuck. I'm
- 9 sorry. Bill Knight. Yes. Thank you. Mr. Karen
- 10 Hudson. Donald Reeder, R-E-E-D-E-R. Donald
- 11 Reeder.
- 12 Anyone who has signed up on the sign-up
- 13 sheet but is not here, if you could just pass the
- 14 word on to them that they could certainly file what
- 15 they had planned on testifying to as a public
- 16 comment. As long as they file it before February
- 17 14th, the Board will consider it in the
- 18 rulemaking.
- 19 If you don't have our address, it is 100
- 20 West Randolph Street. And that's Suite 11-500. In
- 21 Chicago. It's zip code 60601. And you could put
- 22 that to the attention of the clerk of the Board.
- 23 And as I mentioned earlier, make sure that you have
- 24 docket R97-13 (sic) noted on there. If you'd also

1 like to include Illinois Administrative Code 506,

- 2 that would be great.
- 3 And I think we could have one more person
- 4 up here. Nancy Bostic. Mark Beorkrem.
- If you could swear in the witnesses.
- 6 (Wherein the witnesses were sworn in
- 7 by the court reporter, all five having said, I do,
- 8 and testified as follows:)
- 9 THE HEARING OFFICER: If we could
- 10 begin with Ms. Kuck.
- 11 MS. KUCK: My name is Mary Kuck,
- 12 K-U-C-K. Rhymes with good luck. Okay.
- 13 Chairman, members of the Pollution
- 14 Control Board, I wish to express my concerns
- 15 regarding a number of issues which I feel should be
- 16 addressed in light of the encroachment into the
- 17 state of Illinois by mega livestock operations.
- 18 Issue No. 1. Mega livestock operations
- 19 require massive amounts of water, first to fill the
- 20 manure waste-holding lagoons, and then to continue
- 21 flushing waste from the confinement buildings into
- 22 the lagoons. Such enormous use of water will
- 23 inevitably lower the water table, thereby affecting
- 24 not only nearby rural wells but also municipal

- 2 Issue No. 2. A mega hog factory sited in
- 3 North Carolina, and which used what was considered
- 4 a state of the art lagoon system to contain waste,
- 5 which is, of course, urine and manure, had a lagoon
- 6 failure, which resulted in the spillage of 24
- 7 million gallons of waste. To put this volume of
- 8 waste into the proper perspective, you should be
- 9 aware that this is more than twice the volume of
- 10 the Exxon Valdez oil spill, which caused such
- 11 devastating pollution in Prince Edward Sound.
- 12 This 24 million gallon spill of manure
- 13 waste then polluted not only neighboring property
- 14 and homes but destroyed all aquatic life for a
- 15 17-mile stretch of the new river.
- 16 The corporations which installed these
- 17 facilities say they now can install a lagoon which
- 18 is safe. They do not, however, guarantee that this
- 19 kind of accident will not happen again.
- 20 Issue No. 3. In the case of a large
- 21 waste spill, who is responsible for the actual or
- 22 the physical cleanup of the resulting mess?
- Who will then be responsible for
- 24 compensating individuals whose quality of life,

- 1 homes, water supplies, land and livelihoods are
- 2 damaged or even destroyed by a waste spill?
- 3 Will compensation be the responsibility
- 4 of the operator or the taxpayers of the state of

- 5 Illinois?
- 6 No. 4. Certain large factory farms, such
- 7 as mega hog factories, produce a terrible stench.
- 8 Operators say they can control some of the smell,
- 9 but not all of it. The smell is especially odious
- 10 when the facility begins operation during the
- 11 transfer of effluent waste to agricultural fields
- 12 and during hot, humid seasons.
- 13 Issue No. 5. Effluent from the waste
- 14 lagoons can seep down into the ground and pollute
- 15 the aquifer, which supplies water to a vast area,
- 16 with disease-carrying organisms.
- 17 Issue No. 6. If a lagoon-type system is
- 18 used for the animal wastes, how many cubic feet of
- 19 lagoon space is required per livestock unit, and by
- whom will this be determined?
- 21 Issue No. 7. Pollution by surface water
- 22 runoff from fields where effluent is spread will
- 23 pollute streams and wells with nitrates, pot ash
- 24 and phosphates, as well as disease-carrying

- 1 organisms.
- 2 Issue No. 8. Pollution of our water
- 3 supply by disease bacteria and organisms, including
- 4 swine flu, more commonly referred to as Asian flu,
- 5 is highly probable.
- In Asia, this flu develops among the
- 7 porcine population from which it migrates to the

- 8 human population. Asian flu is a killer flu
- 9 because it attacks all ages, but it is especially
- 10 dangerous to the lives of children, anyone already
- 11 suffering from health problems and to senior
- 12 citizens.
- 13 Issue No. 9. In some areas where mega
- 14 livestock operations have been located, families,
- 15 and especially the children, living within the
- 16 vicinity have suffered exceptionally high rates of
- 17 illness and disease.
- 18 Issue No. 10. Antibiotics, steroids and
- 19 food additives used in the production and feeding
- 20 of livestock on mega size operations will also
- 21 contaminate our water supplies as they percolate
- 22 into the soil and down into our aquifers and water
- 23 table.
- Issue No. 11. Is there now in place an

- 1 indemnity fund which will be used to pay for
- 2 cleanups in case of lagoon failure?
- And if a fund is established, who will
- 4 finance it?
- 5 Will it be those who will benefit from
- 6 the livestock operation, or will it be the
- 7 long-suffering taxpayers of Illinois? Will it be
- 8 possible for a facility to file bankruptcy and
- 9 completely escape all fiscal responsibility?
- 10 Issue 12. Inevitably, some of the

- 11 livestock, be it pigs or cows or chickens or
- 12 whatever, will die. What plans do the operators
- 13 have to cope with carcasses which could become
- 14 sources of disease for not only small family
- 15 farmers' operations but ultimately could be a
- 16 source of disease for the human population?
- 17 Issue 13. Where will the material,
- 18 combined liquid and solid waste, which is pumped
- 19 from the lagoons as they fill up through usage be
- 20 deposited?
- 21 The University of Illinois has standards
- 22 for disposal of waste on cropland which are very
- 23 specific. They require 2-8/10ths acres of land per
- 24 animal unit. What state agency will be responsible

- 1 for determining if a given facility has the
- 2 required acres to accommodate effluent?
- 3 How will this requirement be enforced?
- 4 In situations where regulations are not
- 5 adhered to, what punitive measures will be taken to
- 6 ensure current and future compliance?
- 7 Issue 14. If the manure is trucked over
- 8 our highways because of lack of adjacent acreage
- 9 for disposal, what regulations are currently in
- 10 place to safeguard our citizens if there is a spill
- of the effluent on the highways we all must use?
- 12 How are we to be kept safe from this
- 13 biohazard being spread within our midst?

- 14 Issue 15. One danger all who are
- 15 concerned with this issue wish to see addressed is
- 16 the grandfathering in of the facilities already in
- 17 operation or currently under construction. These
- 18 facilities are as dangerous, if not more dangerous,
- 19 to our environment than proposed facilities,
- 20 because they were constructed without regard to any
- 21 environmental regulations.
- 22 Issue 16. Current regulations will
- 23 require more waste treatment facilities be
- 24 constructed to service the three or four or five or

- 1 ten employees needed to operate the facility than
- 2 are required to treat the waste of a thousand or
- 3 more head of livestock. There is something wrong
- 4 in a situation of this kind.
- 5 At the minimum, the following issues need
- 6 immediate attention.
- 7 Site development and requirement of
- 8 permits must be based on thorough study of site
- 9 conditions and location.
- 10 Public notification and hearings must be
- 11 held prior to the development of a new site or
- 12 expansion of an existing site.
- 13 Updated, larger setbacks must be
- 14 required, which also recognize that other area farm
- 15 residents as well as non-farm residents have
- 16 rights.

- 17 An indemnity fund must be established to
- 18 provide for site cleanup and waste cleanup such as
- 19 occurred when even state of the art lagoons burst
- 20 and spread massive amounts of waste on neighboring
- 21 property and in waterways such as creaks and
- 22 rivers, and to provide cleanup in cases of
- 23 bankruptcy.
- 24 Monitoring wells must be placed around

- 1 the perimeters of wet waste-handling facilities and
- 2 areas where lagoon sludge is spread.
- 3 There must be increased involvement by
- 4 the Illinois Environmental Protection Agency and
- 5 the Department of Public Health and all other
- 6 concerned state agencies.
- 7 In conclusion, I submit that much must be
- 8 done to put into place laws and regulations which
- 9 will protect our environment and our citizens.
- 10 Nearly everyone wants to improve their business and
- 11 financial position, but I contend that this
- 12 improvement must not be at the expense of other
- 13 citizens in the environment of the state of
- 14 Illinois. Thank you.
- 15 THE HEARING OFFICER: Thank you,
- 16 Ms. Kuck. Are there any questions? Thank you very
- 17 much, Ms. Kuck. Now, if we could go on to the
- 18 testimony of Karen Hudson.
- 19 MS. HUDSON: My name is Karen

- 20 Hudson, and I'm a resident of Peoria County. My
- 21 family lives and farms approximately two miles
- 22 north of Elmwood, Illinois. I have a bachelor's
- 23 degree in education, and I'm employed in the
- 24 engineering and drafting areas of a public utility

- 1 company. I am a representative of F.A.R.M.,
- 2 Incorporated, Families Against Rural Messes.
- We are striving to support responsible
- 4 and accountable pork production. Our goal is to
- 5 educate the public about the social, environmental
- 6 and economic impacts of the mega hog industry, as
- 7 well as the stresses small independent producers
- 8 are now suffering. With this knowledge, people can
- 9 make educated decisions regarding this issue.
- 10 I also represent the Illinois Stewardship
- 11 Alliance and Illinois Citizens for Responsible
- 12 Practices. We do not support the current
- 13 definition for a populated area, because it does
- 14 not factor into situations wherein a facility moves
- 15 in adjacent to a subdivision. For example, if the
- 16 subdivision plot of 20 homes has only five homes
- 17 built to date, the setback will not take into
- 18 account any currently empty lots in its setback
- 19 perimeter. We feel that all empty lots in any
- 20 planned subdivision within the radius of a setback
- 21 should be accounted for and treated as a
- 22 residence. This not only protects the financial

- 23 interest of the owner of the subdivision, but also
- 24 the health and environment of present and future

- 1 residences.
- 2 This is sadly the case in Iroquois County
- 3 where a 2400 sow unit is located between a quarter
- 4 to a half a mile of the subdivision. This facility
- 5 was installed before the rules were written. But
- 6 unfortunately, even with today's rules, the
- 7 setbacks would still be the same. There are not
- 8 yet ten residences located within the perimeter, so
- 9 it is not deemed a populated area.
- 10 For the record, setbacks should be
- 11 measured from the property line of the nearest
- 12 corner of the hog facility. The current rules also
- 13 measure setbacks from the center of a building or
- 14 residence, not from the owner's property line.
- 15 This differs from the more acceptable rules of
- 16 North and South Carolina, which measures setbacks
- 17 from, quote, real property owned by another person,
- 18 unquote, or the real property line.
- 19 Being very familiar with
- 20 quarter-sections, township maps and mapping
- 21 procedures, I ultimately became interested in the
- 22 Department of Agriculture's case for not raising
- 23 setbacks. I am also aware of the preliminary
- 24 survey done by the IEPA, the DOA and the Illinois

- 1 Pork Producers.
- 2 This survey covered approximately 2
- 3 percent of the townships in our state. I have
- 4 recently been in touch with the Illinois Geological
- 5 Survey, concerning the 7-and-a-half minute
- 6 quadrangle maps available. These maps show
- 7 residences with almost all of the townships in our
- 8 state. I recommend using this as a valuable
- 9 resource for further and more complete
- 10 investigation of townships in our state and the
- 11 impact of higher setbacks.
- We were, after all, recently told by the
- 13 deputy director of the Department of Agriculture
- 14 that this was, quote, a fairly scientific study
- 15 that was in itself only preliminary, unquote.
- 16 However, can this data be used to support
- 17 and write permanent rules? I am a citizen that
- 18 lives on a farm residence. I am appalled that my
- 19 family is not protected by the same setback rule as
- 20 a non-farm residence family.
- 21 Only until 1,000 animal units are
- 22 present, or 2500 hogs, will our health and welfare
- 23 be considered. How are we in any way different
- 24 from a non-farm family? This unconstitutional law

- 2 way protects any farm families in our state.
- 3 By the way, in a recent vote at the
- 4 Peoria County annual Farm Bureau meeting in
- 5 December of 1996, 107 of our members voted against
- 6 mega hog farms locating in Peoria County, while
- 7 only 11 were in favor.
- 8 I was told by a paid public official in
- 9 Springfield that there are not setbacks for farm
- 10 residences because -- because it is, quote, a
- 11 carryover from the old days where farmers wanted no
- 12 regulations, unquote. This is hard to believe.
- 13 But then again, so is the entire Livestock Waste
- 14 Management Act to me.
- I leave you with this thought. A good
- 16 neighbor is the kind of person that I see as living
- on a farm like this with a family (indicating), and
- 18 sends a casserole to you when you are under the
- 19 weather. I am not expecting to receive a casserole
- 20 from our new neighbors moving into Knox County.
- 21 They look like this (indicating). Thank you.
- 22 THE HEARING OFFICER: Let the record
- 23 reflect she was holding up a picture of what
- 24 appears to be -- I can't see it.

- 1 MS. HUDSON: Large hog facility.
- 2 Not a family facility.
- 3 THE HEARING OFFICER: Do you want to
- 4 submit that into evidence, Ms. Hudson?

- 5 MS. HUDSON: Yes, I do. And also
- 6 submit into evidence a very recent article from the
- 7 Des Moines Sunday Register entitled, Disaster
- 8 Waiting to Happen. And Dale Cockran (phonetic
- 9 spelling), the Iowa secretary of agriculture is
- 10 quoted as saying, you can have a E coli.
- 11 infestation in the entire acquifer and a great
- 12 potential for disaster.
- This is one of the most recent articles
- 14 we have received. Thank you.
- 15 THE HEARING OFFICER: Are there any
- 16 questions for Ms. Hudson at this time?
- MS. MANNING: I just have one.
- MS. HUDSON: Yes.
- MS. MANNING: Ms. Hudson, you used
- 20 the word mega farm, and so did the Peoria County
- 21 Board, apparently in your testimony.
- MS. HUDSON: Yes. Yes.
- MS. MANNING: Do you have a working
- 24 definition of a mega farm?

- 1 MR. MUDGETT: 1250 animals is what
- 2 we are talking. Not animal units. We are talking
- 3 animals.
- 4 MS. MANNING: But the Peoria County
- 5 Board didn't define that in its vote; is that
- 6 correct?
- 7 MS. HUDSON: No. This was done -- a

- 8 preliminary question that was asked at the Peoria
- 9 County board meeting. And I'm sure at that meeting
- 10 there were people there who had as different an
- 11 idea of the definition of a hog farm as you or I.
- 12 So I have to say that that would probably
- 13 not be a scientific study. It was just a vote that
- 14 was taken that night on the general consensus of
- 15 the crowd.
- MS. MANNING: That was the meeting
- of the Farm Bureau, not the Peoria board.
- MS. HUDSON: Peoria Farm Bureau.
- MS. MANNING: Thank you.
- 20 THE HEARING OFFICER: Are there any
- 21 other questions of Ms. Hudson? Thank you.
- We will mark into exhibit (sic) the
- 23 special advertising Section article, titled Quality
- 24 Crops From the Soybean Digest, January 1997 as

- 1 Exhibit No. 37.
- 2 Plus we will mark into the record as
- 3 Exhibit No. 38 the Des Moines Sunday Register
- 4 article from Sunday, January 19th, 1997. Editorial
- 5 titled, Disaster Waiting to Happen, a Deadly
- 6 Possibility, Manure Flowing Into Drainage Wells.
- 7 And finally mark into the record as
- 8 Exhibit No. 39 a picture of the Green County
- 9 Hanover Corporation, British Pig Improvement
- 10 Corporation photograph.

- 11 Thank you, Ms. Hudson. I'm sorry. Did I
- 12 skip Bill Knight?
- MR. KNIGHT: I'm right here.
- 14 THE HEARING OFFICER: You can
- 15 present your testimony now.
- MR. KNIGHT: I want to express some
- 17 concerns about something that's heretofore been not
- 18 brought up. And that's enforcement of current or
- 19 future Livestock Waste Regulations and/or laws.
- The best law, of course, requires
- 21 enforcement. And with this particular topic, it
- 22 would require enforcement to ensure compliance by
- 23 inspecting and administering meaningful penalties
- 24 where violations may occur.

- 1 Without real enforcement, meaning
- 2 adequate funding, staffing and training of law
- 3 enforcement and other public officials, the results
- 4 will be economic anarchy, the same as no law at
- 5 all.
- 6 Already there are parallel examples in
- 7 government of inadequate staffing and funding
- 8 leading to public harm.
- 9 Even dismissing instances by meat
- 10 inspectors in the Department of Agriculture or
- 11 field representatives of the EPA as too adversarial
- 12 here, there are other places where bad management
- 13 of good laws have terrible consequences.

- In 1995 and '96, federal budgets for the
- 15 Occupational Safety and Health Administration was
- 16 targeted for 5 and 15 percent budget cuts
- 17 respectively. OSHA already had nowhere near the
- 18 number of inspectors needed to monitor U.S.
- 19 workplaces, and in those years, was prohibited by
- 20 law from spending to issue a final or even a
- 21 proposed rule or guidelines on ergonomics the area
- 22 of biotechnology that addresses increasingly common
- 23 repetitive stress injuries.
- So injuries kept happening, people kept

- 1 getting hurt and needed therapy or surgery, and
- 2 worker's compensation costs to employers
- 3 increased.
- In a related area, OSHA and the
- 5 Department of Labor are so woefully understaffed
- 6 that it's possible for sweatshops, usually
- 7 associated with exploiting workers in third world
- 8 countries, to exist in New York and California.
- 9 Few can enforce that law.
- 10 Above us the air is busy with aircraft
- 11 coordinated by understaffed, overworked and ill
- 12 equipped air traffic controllers, and ultimately
- 13 supervised by the Federal Aviation Administration,
- 14 which also is understaffed and overworked. So the
- 15 FAA no longer requires checking flight data
- 16 recorders very often. Their function is checked

- 17 about once a year. So most don't work.
- 18 Further, nine years ago in Hawaii, a 737
- 19 airliner flown by Aloha was 24,000 feet when 18
- 20 feet of its outer skin peeled away, decompressing
- 21 the cabin and killing a stewardess, who fell from
- 22 the aircraft. Later inspection found extensive
- 23 corrosion and fatigue damage. That aircraft and
- 24 two other Aloha 737's were scrapped, because of

- 1 skin erosion and cracking.
- 2 The FAA had been assigned to watch that
- 3 carrier's and the entire industry's 737 fleet, but
- 4 it was overworked and understaffed. Regulations
- 5 and a citizen literally fell through the cracks.
- 6 Although the ultimate responsibility for
- 7 budgets and personnel really lies with the General
- 8 Assembly in Illinois and other state agencies,
- 9 officials and employees of the state must assert
- 10 their appropriate role of authority and
- 11 accountability to act in the public interest and to
- 12 represent citizens. If not, responsibility is
- 13 passed from building to building or desk to desk,
- 14 and the peoples business is not conducted, and any
- 15 law that has arisen is not enforced.
- 16 My other point speaks to kind of a
- 17 challenging tone that came up between the cracks, I
- 18 guess you could say again, in earlier testimony
- 19 about the invalid emotions that sometimes arise in

- 20 the debate about a large concentration of
- 21 livestock.
- 22 Implicit in some of these questions or
- 23 comments is that people need special qualifications
- 24 to comment on this issue or any issue in the public

- 1 interest, or that emotions have no validity. And
- 2 emotions, we have to realize, are part of the human
- 3 animal.
- 4 Socially and individually, many of our
- 5 marriages are based on emotions, not on any kind of
- 6 logic stemmed from some star-struck Vulcan
- 7 mindset.
- 8 Furthermore, our qualifications should be
- 9 obvious. We breathe the air. We drink the water.
- 10 We live here. We are citizens. No longer does any
- 11 kind of literacy test or poll tax or other litmus
- 12 test, limit debate to some kind of elite.
- In this country, no longer is voting
- 14 restricted to white male property owners. Citizens
- 15 are entitled, even empowered, to take part in a
- 16 discussion without any kind of special status.
- To question the appropriateness of
- 18 someone's statement or concerns is to set up
- 19 classes of participants in the rulemaking.
- 20 Excluding all but scientists or lobbyists
- 21 or experts or officials, further relying on various
- 22 opinions isn't unlike a serious medical condition.

- 23 The opinions of a doctor or even a specialist must
- 24 be balanced with the best interests of the patient,

- 1 as expressed by the patient or his or her family.
- 2 The patient here could be viewed as
- 3 Illinois, and we are Illinois' family. And a
- 4 handful of economic surgeons seem a little quick to
- 5 cut, especially interested in fees perhaps and not
- 6 the needs of the patient. Making Illinois submit
- 7 to the chemotherapy of unregulated or little
- 8 regulated livestock confinement operations might be
- 9 viewed as a radical and experimental procedure that
- 10 endangers Illinois' quality of life.
- In the December issue of Consumer
- 12 Reports, the magazine comments, proposals to turn
- 13 risk management over to some elite corps of experts
- 14 or to base decisions solely on rigid cost-benefit
- 15 criteria without including public values are both
- 16 unworkable and at odds with democratic principles.
- 17 They quote Roger Casperson (phonetic
- 18 spelling), a researcher in risk management at Clark
- 19 University in Worcester, Massachusetts, as saying,
- 20 I think that in the risk situations, we need to
- 21 empower the people who are bearing the risks to
- 22 negotiate. The public is much more rational about
- 23 dealing with risk than the technical experts think
- 24 they are.

- 1 So lastly, I thank the PCB for giving
- 2 credence to ordinary citizens', qualifications
- 3 aside, and I encourage more people, both now and
- 4 through February 14th, to comment.
- 5 THE HEARING OFFICER: Thank you,
- 6 Mr. Knight. Are there any questions for
- 7 Mr. Knight? Seeing none, thank you very much,
- 8 Mr. Knight.
- 9 And we will go on with the testimony of
- 10 Mr. Donald Reeder.
- DR. REEDER: I'd like -- I'd like to
- 12 thank the Pollution Control Board members for
- 13 allowing us to make public comment. And I would
- 14 like to say that many of the points that have
- 15 already been made, I agree with.
- 16 First of all, I think that the enactment
- 17 of the Livestock Management Waste Management Act is
- 18 desirable, and that it should be implemented, and
- 19 that it should be the rulemaking process. And
- 20 implementing it should be done with counsel from
- 21 some of the industry, as well as from the
- 22 scientific community at the university. And once
- 23 the rules are set, make them stable so that the
- 24 livestock producer has a ground rule by which he

- 2 I'm a retired veterinarian. I've watched
- 3 the livestock industry develop in this community
- 4 for 36 years. And I've seen many small farms
- 5 become viable units because the young people were
- 6 able to stay on that farm and have an effective
- 7 livestock production facility.
- 8 We have seen, as it's been alluded to
- 9 before, 40 percent of our livestock numbers from
- 10 the year 1973 till this past December -- the hog
- 11 numbers in the state of Illinois have declined 40
- 12 percent. That's an erosion of an awful lot of
- 13 dollars of income for this state.
- 14 If Maytag out here were to lay off 40
- 15 percent of their workers tomorrow, there would be a
- 16 lot of concern. The numbers of livestock producers
- 17 has declined even more than the numbers of hogs.
- 18 We were shown some graphs this morning showing the
- 19 downtrend of swine producers, of the smallest swine
- 20 producers in North Carolina. And the illusion was
- 21 that the large producers had forced them out.
- What happened in Illinois? We didn't get
- 23 the large producers, but we lost an equal number of
- 24 small producers. And they are not being replaced.

- 1 Unfortunately, over the last few years
- 2 and during this period that I'm talking about, some
- 3 of the economics have changed as far as the farm
- 4 scene is concerned. And also in the last few

- 5 years, there has been an uncertainty on the part of
- 6 those who wanted to go into the livestock business
- 7 as to what the rules were and how they were going
- 8 to impact them.
- 9 And their bankers are quite aware of the
- 10 state of flux of the regulations. So we need a set
- 11 of rules that are -- that are making the
- 12 environment stable and safe, but we also need them
- 13 set in place so that they are what the livestock
- 14 producer can work with.
- The other thing that I think you want to
- 16 remember, as you are designing these rules and
- 17 implementing them, is go by scientific fact, not by
- 18 fear. We have heard a number of people make
- 19 statements here today of the alleged dangers of
- 20 livestock waste and talk of it as though it were a
- 21 nuclear waste or some other major hazard. The fact
- 22 is, that livestock waste is biodegradable and
- 23 presents very little danger to the human
- 24 population.

- I think this is primarily the area I
- 2 wanted to cover. The -- the other areas have
- 3 pretty well been covered.
- 4 Thank you for the opportunity.
- 5 THE HEARING OFFICER: Thank you,
- 6 Mr. Reeder. Are there any questions for Mr. Reeder
- 7 at this time? Yes. Could you come up?

- 8 MR. KAUFMAN: Sam Kaufman, Jr.,
- 9 (phonetic spelling), Knox County. I just wanted to
- 10 ask Dr. Reeder. You didn't address the subject of
- 11 odor at all.
- DR. REEDER: Okay. I think first of
- 13 all, that the producers in this area are doing a
- 14 much, much better job today than they did perhaps
- 15 20 years ago when the -- for instance, when you
- 16 were in business at the stockyards.
- 17 At that time, you might joke and make the
- 18 comment, well that smells like money. But people
- 19 don't joke that way anymore. We do everything we
- 20 can, I think, as an industry to either -- to
- 21 realize it in a way that produces minimum odor. A
- 22 great deal of it is injected underground when
- 23 possible.
- MR. KAUFMAN: Well, only comment,

- 1 would you say -- say we are doing better? And it's
- 2 different than it was 20 years ago. But that
- 3 doesn't say that it's good.
- 4 DR. REEDER: I guess what I'm saying
- 5 is that today's producers are conscious of their
- 6 environmental responsibilities and are -- I have
- 7 seen over the 36 years I've been in this area a
- 8 tremendous change in the attitude towards the
- 9 handling of waste and concern for their neighbors
- 10 and so on.

- 11 MR. KAUFMAN: I don't agree with
- 12 your statement that I ever said that hog --
- 13 THE HEARING OFFICER: That's okay.
- 14 Just make sure --
- DR. REEDER: I didn't mean you.
- MR. KAUFMAN: I don't want to
- 17 answer. I never made a statement on a radio that
- 18 said hog manure is money. And that was the
- 19 statement he made, and I never made that statement.
- THE HEARING OFFICER: Okay. Okay.
- DR. REEDER: I'm sorry, Sam. I
- 22 didn't mean -- I didn't intend to imply that you
- 23 had said that, but rather that at some time in the
- 24 years past, I heard somebody say it smelled like

- 1 money.
- 2 MR. KAUFMAN: Well, I'll accept your
- 3 apology.
- 4 DR. REEDER: That is no longer
- 5 existent among the --
- 6 MR. KUCK: I have a question.
- 7 THE HEARING OFFICER: Could you
- 8 please just come to the front, please.
- 9 MR. KUCK: My name I believe you
- 10 have. Joe Kuck.
- 11 Sir, you made a statement, livestock
- 12 waste is biodegradable. Correct?
- DR. REEDER: Correct.

- MS. KUCK: So is human waste
- 15 untreated, it produces everything. And
- 16 uncontrolled, we would have one awful mess. So
- 17 that is why we need pollution control and control
- 18 of these mass concentrated production of livestock
- 19 waste, because it can -- nature cannot take care of
- 20 it. They have to treat it properly.
- 21 THE HEARING OFFICER: Just make sure
- 22 that you are asking a question. I'm sorry. Just
- 23 make sure that you are asking a question.
- MR. KUCK: I wanted to ask you why

- 1 if that's the case, if it's biodegradable, why
- 2 can't we dump human waste too?
- 3 DR. REEDER: First of all, we are
- 4 here to discuss regulations that are being put in
- 5 place to regulate livestock waste.
- 6 But secondly, the reason for the
- 7 different standards between livestock waste and
- 8 human waste is most of the livestock pathogens
- 9 bacteria flora are host specific and do not affect
- 10 humans. There are a few exceptions, but most of
- 11 them, that is the case.
- 12 THE HEARING OFFICER: Thank you.
- 13 Yes. In the blue sweater. Would you come up.
- 14 MR. ROBINSON: Bill Robinson, Knox
- 15 County.
- 16 One of the previous presenters suggested

- 17 that swine influenza was -- could be a causative
- 18 agent to -- I forgot what it was.
- DR. REEDER: They were alluding to
- 20 infection through --
- 21 MR. ROBINSON: That my children
- 22 could catch something in the way of influenza.
- 23 Could you address that?
- DR. REEDER: That, to the best of my

- 1 knowledge, is totally incorrect. The variety of
- 2 swine -- or the variety of -- variety of human
- 3 influenzas is not closely related to the virus from
- 4 which the swine influenzas virus was derived. So
- 5 they are not transferrable between. And to my
- 6 knowledge, present no health hazard to humans.
- 7 MR. ROBINSON: My childrens' mother
- 8 will rest more easy.
- 9 THE HEARING OFFICER: Thank you.
- 10 Last question then.
- 11 MS. HUDSON: My question is: Are
- 12 you aware of the so-called phantom dinoflagellate,
- 13 a one-celled organism, stimulated by nutrient
- 14 over-enrichment of public waters, and what they are
- 15 faced in North Carolina with?
- 16 Are you aware of what they are doing
- 17 about that?
- 18 Do you know that?
- 19 And are you aware that many of the

- 20 scientists that have been exposed to this have had
- 21 quite a lot of illness?
- DR. REEDER: I'm not aware of
- 23 specifically of what you are speaking of. I did
- 24 see a survey of the waters of North Carolina and

- 1 their surface waters, and basically they have
- 2 improved over the period of time that the hog
- 3 numbers have increased.
- 4 Now, there is also data there, and it
- 5 would -- it be would be applicable to this area as
- 6 well that shows that the shallow wells are likely
- 7 to be contaminated, both with Chlorobium organisms
- 8 and this -- the girardia they are speaking of.
- 9 It has been true from at least 36 years
- 10  $\,$  ago, and I assume farther back than that, that the
- 11 deeper drilled wells that most of us have are not
- 12 likely to be polluted, but the shallow wells are
- 13 subject to contaminants from any source, whether it
- 14 be wildlife or human or our domestic livestock.
- 15 THE HEARING OFFICER: Thank you,
- 16 Mr. Reeder. Okay. Thank you.
- Now we will go to the testimony of Mark
- 18 Beorkrem.
- 19 MR. BEORKREM: Thank you for being
- 20 allowed to speak today.
- I am speaking on behalf of the Illinois
- 22 Chapter of the Sierra Club. We had submitted

- 23 written comments before the deadline that will
- 24 enhance and extend my comments.

- 1 I would give some background. Formerly
- 2 executive director of the Quad City Conservation
- 3 Alliance, which is a large Iowa and Illinois
- 4 conservation organization. Coalition of groups. I
- 5 served in that capacity for a number of years. I
- 6 also have served in various capacities and as a
- 7 consultant to the National and Iowa and Illinois
- 8 Wildlife Federations and the -- to the Mississippi
- 9 River Basin Alliance.
- 10 And most recently in the last year, I
- 11 served on the Lieutenant Governor's Illinois River
- 12 Planning Committee, which has just produced a
- 13 strategy for improving the Illinois river watershed
- 14 areas.
- And my comments that will be submitted
- 16 for the Sierra Club will address some of the
- 17 concerns from that group that might be affected by
- 18 the implementation of the livestock rules.
- 19 I'll try not to duplicate some of the
- 20 concerns that have been expressed by others in the
- 21 meeting throughout the day in the interest of
- 22 time. But there are some specific things that I
- 23 think the Sierra Club would like to address. And
- 24 we have addressed this issue before, in that we

1 were one of the first organizations to present the

- 2 factory farming issue to the U.S. Department of
- 3 Agriculture in meetings with the Department heads
- 4 back in the early '90s. So we are not new to this
- 5 issue. And nor have we neglected it.
- 6 One of the things that we would like to
- 7 reiterate is the Department of Natural Resources'
- 8 proposals for increasing protection of the Illinois
- 9 parks and recreations areas. As they have
- 10 submitted to you in testimony, the parks and
- 11 recreations areas in the state of Illinois
- 12 represent critical conditions for the quality of
- 13 life of our residents, whether they are farm or
- 14 non-farm throughout the state.
- 15 And in the siting of facilities that have
- 16 been proposed in the regulations it can have a
- 17 significant impact on how people view those
- 18 facilities in which we have billions of dollars of
- 19 investment. And those facilities also represent
- 20 billions of tourist dollars that come into the
- 21 state every year.
- 22 A failure to protect those facilities
- 23 from the impact, whether it be odor or actual
- 24 pollution into those facilities, could have

- 2 facilities. If the tourists or state residents go
- 3 to a facility and do not have a good time at that
- 4 facility, for whatever reason, and if it gets
- 5 traced to problems with odor or pollution from a
- 6 mega livestock facility, that impact is going to be
- 7 permanent probably, and that facility will suffer
- 8 as a result, as well as the surrounding
- 9 countryside. And it will impact negatively on the
- 10 agricultural community.
- 11 Secondly, one of the concerns from my
- 12 background in working with watershed management and
- 13 river issues is the most recent 1993 flood
- 14 occurrences we had in the state of Illinois and
- 15 through the Midwest. We had multiple weeks of
- 16 occurrences of heavy rainfall, much like California
- 17 is incurring right now.
- 18 We not only had specific 24-hour rainfall
- 19 events that exceed the six-inch rainfall
- 20 regulations that are listed in the regulations that
- 21 are proposed, but we also had weeks of rainfall
- 22 that saturated the soils and saturated dikes and
- 23 levies.
- 24 One of our concerns is that these rules

- 1 do not go far enough in allowing for adequate
- 2 freeboard to handle the volume of water that may
- 3 fall. May not be a large event, but may be a very
- 4 isolated event that occurs on the top of a lagoon

- 5 facility and lead to either catastrophic failure of
- 6 the facility or the overflow of the facility. And
- 7 I think a six-inch rainfall event, while it's
- 8 listed in the regulations as being one that covers
- 9 a 1-in-25-year event, I think we have seen since
- 10 the mid '60s that rainfall amounts exceeding six
- 11 inches in a 24-hour period have been increasing
- 12 throughout the Midwest.
- 13 And I will try to find evidence that I
- 14 know exists out there from the Weather Bureau that
- 15 indicates that we are on a trend, an increasing
- 16 trend, within the Midwest for such occurrences.
- 17 The other thing that I think is very
- 18 important to consider in looking at a catastrophic
- 19 event. And in your responsibility as the Pollution
- 20 Control Board in protecting the citizens in the
- 21 event of such events, there is no provision for
- 22 emergency inspections following such events within
- 23 the rules proposed by the Department of Agriculture
- 24 under their request to be the enforcer of these

- 1 regulations.
- 2 And I think that the Pollution Control
- 3 Board should not abrogate its responsiblity to get
- 4 involved should we see a duplication of the 1993
- 5 rainfall events. I think that we saw at that time
- 6 an exhaustion of state, local and federal resources
- 7 to deal with the problems that we had at that

- 8 time. And I shutter to think of the consequences
- 9 if we have 10 or 15 or 20 mega hog facilities or
- 10 mega livestock facilities throughout the state and
- 11 have the '93 events occurring, dumping 20 to 25
- 12 inches of rain in a six-week period on such
- 13 facilities.
- 14 Where is that waste going to go?
- 15 And do the operators have the financial
- 16 resources to do emergency drawdowns at their
- 17 facilities and the ability to dispose of such waste
- 18 during such events?
- 19 Are we going to be required from the
- 20 citizens' standpoint and the state's standpoint to
- 21 move in with the National Guard and hire
- 22 contractors to go in and assist these operators?
- Do we have a plan?
- 24 These are -- they are unusual events, but

- 1 they are not events that will never occur again.
- 2 They will occur again. We know that in the
- 3 planning we are doing now for the watersheds, both
- 4 at the federal and state level. And I think that
- 5 the Pollution Control Board has to build that into
- 6 its planning.
- 7 We also have concerns that the Department
- 8 of Agriculture is asking to be the regulator on the
- 9 inspections and development of such facilities. We
- 10 have problems right now within the federal

- 11 government where the NRCS has been charged with the
- 12 enforcement of wetlands regulations at the same
- 13 time when they were supposed to be working with the
- 14 producer in trying to -- to improve production,
- 15 prevent being both regulator and protector of the
- 16 industry. And Department of Agriculture is setting
- 17 itself up for failure by asking to be the enforcer
- 18 of livestock lagoon regulations at the same time
- 19 when the Department is established and charged with
- 20 the responsibility of increasing and aiding
- 21 production within the state of Illinois.
- 22 Certainly the Department needs to be
- 23 involved in assisting the -- the development of
- 24 rules and regulations that will help protect the

- 1 industry that is vital to the state of Illinois.
- 2 But at the same time, to expect the Department --
- 3 that Department that is charged with promoting to
- 4 also then be the enforcer and expect them to be
- 5 able to fully implement and provide the funds for
- 6 enforcement of these rules which you are charged
- 7 with developing, we have great concerns that that
- 8 could actually occur.
- 9 I also would echo the gentleman's
- 10 comments earlier about inspections. There is no
- 11 provision right now within the state for monies.
- 12 That's going to be a legislative issue, but we need
- 13 ongoing inspections of these facilities. And we

- 14 have concerns that the Department of Agriculture
- 15 will not be the one to fulfill that one
- 16 adequately.
- 17 The Department of Agriculture also
- 18 addresses the conditions concerning financial
- 19 failure of operators of such facilities. And
- 20 Mr. Boruff in his comments made the comment that
- 21 failure is an unlikely occurrence with these types
- 22 of facilities. They don't have any evidence of
- 23 this having occurred in the past.
- Well, unfortunately, we have a lot of

- 1 farming operations and a lot of other business
- 2 operations that have been failing. It's a regular
- 3 occurrence in the business environment. And to
- 4 comment that it's unlikely that such a failure
- 5 could occur and these facilities are not going to
- 6 pass into the hands of county or state government,
- 7 I think is minimizing what could occur. An
- 8 operator of such a facility, if they do financially
- 9 fail, if a bank or system or such entity receives
- 10 the property, they are going to be strongly tempted
- 11 to not pay the taxes and let it pass on to the
- 12 county.
- 13 And I'm also not certain as to what the
- 14 federal laws are since we have pushed through the
- 15 federal level limitations on the financial
- 16 liability of financial institutions as regarding

- 17 the pollution on specific manufacturing sites. I'm
- 18 not sure how those limitations protect the
- 19 financial institutions from liability in the case
- 20 of sewage lagoons -- or waste lagoons for farms.
- 21 So I think that that needs to be
- 22 investigated by the Pollution Control Board and see
- 23 if that might have an impact on the financial
- 24 responsibility of property owners. Voluntarily.

- 1 Another concern. I've had some
- 2 experience with siting of landfills in the state of
- 3 Iowa in trying to find adequate sites for
- 4 landfills. And I think that I have some concerns
- 5 with having one site boring being the requirement
- 6 unless aquifer evidence is near -- which is
- 7 nearby.
- 8 If we are talking several acres waste
- 9 lagoons, it's very possible that because we have an
- 10 inadequate history on a lot of these properties
- 11 that one site boring on a two-to-four-acre sewage
- 12 or waste lagoon, might not provide the sufficient
- 13 evidence for development of an adequately built
- 14 lagoon. And I think that perhaps the Pollution
- 15 Control Board should look closer at its landfill
- 16 siting rules and landfill construction rules and
- 17 maybe draw upon that as guidelines for development
- 18 of waste lagoons.
- 19 And then finally, this particularly

- 20 addresses the concerns of the Illinois River
- 21 Watershed Management Plan that we have just
- 22 completed. Throughout the state of Illinois, we
- 23 have extensive use of drainage tile. And we see
- 24 now an impact on all the streams and waters of

- 1 Illinois nutrients and agricultural chemicals
- 2 moving rapidly into our watersheds from farm fields
- 3 because of the installation of drainage tile, which
- 4 allow for the adequate farming of the land.
- 5 And if we have operators that begin to
- 6 start using the waste products from mega facilities
- 7 concentrated into a few farm fields in and around
- 8 the facility, I think it's pretty likely that we
- 9 are going to see an increase in nutrient loading
- 10 into our watersheds because of the existence of the
- 11 drainage tile and runoff characteristics of much of
- 12 Illinois river basin.
- 13 So I think that that needs to be taken
- 14 into consideration. It's going to have -- these
- 15 rules are going to have a major impact long-term
- 16 on -- on what we are going to be able to do with
- 17 improving the Illinois river watershed, as well as
- 18 other watersheds throughout the state. And to
- 19 shortchange the industry now and not provide them
- 20 with good stable long-term rules will cause them
- 21 problems and increased costs.
- We need to take the time now to make sure

- 23 that we're providing rules and regulations that not
- 24 only take care of the producer but also take care

- 1 of the rest of the citizens of Illinois.
- 2 Thank you.
- THE HEARING OFFICER: Thank you.
- 4 Are there any questions for Mr. Beorkrem? Yes.
- 5 Mr. St John.
- 6 DR. ST JOHN: Can I ask a question
- 7 of another presenter?
- 8 THE HEARING OFFICER: First any
- 9 questions for Mr. Beorkrem? Okay.
- 10 DR. ST JOHN: Bruce St John. I'm
- 11 sorry, sir. The veterinarian, I didn't catch your
- 12 name.
- MR. REEDER: Don Reeder.
- DR. ST JOHN: Don, if I understood
- 15 your comments in terms of public health, you don't
- 16 see large-scale livestock production facilities as
- 17 posing any particular public health problems. Is
- 18 that correct?
- 19 DR. REEDER: I would say they would
- 20 be minimal.
- 21 DR. ST JOHN: I want to draw your
- 22 attention to the bibliography mentioned earlier.
- 23 The last Section is entitled, Worker Health. It
- 24 has 13 different articles in it. Just to give you

- 1 a sample, Kelly Donham, Physical Health
- 2 Consequences of Intensive Swine Confinement
- 3 Production on Workers. Second article by
- 4 Dr. Donham, Respiratory Disease Hazards to Workers
- 5 in Livestock and Poultry Confinement Structures.
- 6 Article by Susanna Essen of North Carolina, Health
- 7 Effects of Work in Swine Confinement Facilities.
- 8 And article by Ms. Thorsbury in the proceedings
- 9 from the Interdisciplinary Scientific Workshop that
- 10 we talked about earlier held in Des Moines, Iowa in
- 11 June of 1995.
- 12 So there is a growing body of literature
- 13 throughout scientific literature which suggests
- 14 that workers who work in large-scale swine or
- 15 large-scale livestock production facilities, in
- 16 fact, are subjected to some very serious health
- 17 risks.
- 18 Are you suggesting you're rejecting this
- 19 particular literature in the scientific body of
- 20 information, or are you saying you haven't been
- 21 aware of it and haven't read it?
- DR. REEDER: What I was referring to
- 23 was the waste management on the facilities rather
- 24 than the health of the workers themselves. I'm

- 2 Some of that is a bit exaggerated, but it has been
- 3 printed.
- 4 Also I think you'll find that the primary
- 5 concern there has been a matter of dust, which
- 6 in -- in a good facility you can do a reasonable
- 7 job of controlling.
- 8 And certainly, such hazards as smoking
- 9 and the like are much, much more severe than what
- 10 this is. Perhaps they're additive. But if it's a
- 11 terrible hazard, after spending a lifetime with
- 12 livestock and in livestock facilities, I should be
- 13 dead, as well as a number of other people out
- 14 here.
- 15 THE HEARING OFFICER: Thank you,
- 16 Mr. Reeder. We are going to have to go on to the
- 17 next panel now. Okay.
- 18 MR. BEORKREM: One final comment
- 19 related to the testimony of the Sierra Club
- 20 regarding public health issues. We saw in
- 21 Milwaukee several years ago an outbreak of
- 22 Cryptosporidium infestation that was traced to
- 23 livestock operations north of Milwaukee. And I
- 24 think that the fact that we lack testing

- 1 regulations for Cryptosporidium in our drinking
- 2 water within the state of Illinois, and indeed
- 3 within the nation, is an area of concern that needs
- 4 to be addressed by the Pollution Control Board.

- 5 THE HEARING OFFICER: Thank you.
- 6 And thank you to all of the witnesses today.
- 7 Donna Buss. Steve Hobson. Dana Walker.
- 8 Dana Walker here?
- 9 MR. WALKER: Yes.
- 10 THE HEARING OFFICER: Judith Race
- 11 still here? Has she left? Okay. I have her
- 12 testimony as public comment. Mike Hennenfent.
- 13 Thank you. And William Emmett.
- 14 Please swear the witnesses.
- 15 (Wherein the three witnesses were
- 16 sworn by the court reporter, all saying I do, and
- 17 testified as follows:)
- 18 THE HEARING OFFICER: Thank you.
- 19 Could you -- and please just introduce yourself
- 20 before you begin.
- 21 MR. HOBSON: Yeah. My name is Steve
- 22 Hobson. I want to thank you for the opportunity to
- 23 speak to you today.
- 24 I'm a professional agricultural engineer

- 1 in Illinois and have worked in the engineering
- 2 field for nearly ten years where I've designed and
- 3 planned many animal waste systems. I have two BS
- 4 degrees. One is in agricultural engineering and
- 5 the other in agricultural sciences. Both from the
- 6 University of Illinois in Champaign-Urbana.
- 7 I am here today as a concerned citizen, a

- 8 member of the Illinois Stewardship Alliance, and to
- 9 represent my parents' concerns.
- I grew up on my family's grain, hog and
- 11 family vacation farm in rural Green County,
- 12 Illinois. We have been there for seven
- 13 generations, since 1818. We have facilities there
- 14 that -- where we can take up to eight families at a
- 15 time horseback riding and et cetera.
- 16 In rural Green County, Illinois north of
- 17 the town of Eldred near a recently constructed
- 18 factory hog farm, our vacation business started in
- 19 1962. And I estimate that between 50,000 and
- 20 100,000 people have visited there.
- 21 My purpose in testifying before you to is
- 22 to comment about two main topics, waste management
- 23 and odor control.
- The Section 506.301, purpose, the

- 1 alliance recommends that the most limiting nutrient
- of nitrogen, phosphorus and potassium, referred to
- 3 as pot ash, be used. The most limiting nutrient in
- 4 most cases is phosphorus. The USDA, NRCS uses the
- 5 phosphorus rate in designing waste management
- 6 plans. Also the Minnesota Cooperative Extension
- 7 Service has written a computer program to prepare
- 8 waste management plans, and it uses the agronomic
- 9 phosphorus requirement of the crop grown.
- 10 The Illinois EPA in Title 35, Subtitle E,

- 11 Section 560.201, nutrient loading recognizes,
- 12 quote, in order to make the best use of phosphorus
- 13 resources, it may be advisable to apply waste at
- 14 the agronomic phosphorus rate, unquote. If applied
- 15 at nitrogen rates, long-term buildup of phosphorus
- 16 will occur.
- I wish to provide methodology here for
- 18 determining phosphorus rate. Generally, a
- 19 livestock management plan involves balancing the
- 20 livestock-produced nutrients, waste, with agronomic
- 21 nutrient uptake of the crop accounting for storage,
- 22 handling, application and mineralizations losses.
- 23 Nutrient book values or actual tested values can be
- 24 used.

- 1 I have included two examples to show a
- 2 comparable amount of acres needed to balance
- 3 nitrogen and P205 crop maintenance needs for a
- 4 holding pond and anaerobic lagoon.
- 5 I would now will be to direct your
- 6 attention towards some testimony submitted by
- 7 Dr. Dennis Schulte, Ph.D., P.E., professor of
- 8 agricultural engineering at the University of
- 9 Nebraska in Lincoln.
- 10 In his oral testimony to the Missouri
- 11 Clean Water Commission, 31st August, 1994, states,
- 12 quote, historically pollution from livestock
- 13 production enterprises; that is, ground and surface

- 14 water pollution and air pollution, has not been a
- 15 serious problem when their scale is small and sites
- 16 are scattered. However, as demonstrated in the
- 17 Netherlands, where the average size of cattle and
- 18 hog and poultry facilities is still very small
- 19 compared to U.S. standards, serious pollution
- 20 problems can grow from livestock enterprises.
- 21 Their groundwater contamination by nitrates, algal
- 22 blooms prompted by elevated phosphorus levels in
- 23 canals, streams and lakes and acid rain caused by
- 24 high ammonia levels are all caused by the livestock

- 1 industry.
- 2 One telling result is that the
- 3 Netherlands' today has over one million acres of
- 4 land that is phosphorus saturated. The Dutch
- 5 government is imposing strict limitations on the
- 6 amount of manure that can be applied to soils based
- 7 on the phosphorus uptake rate of the crop as
- 8 opposed to the nitrogen uptake rate approach
- 9 commonly used in this country.
- 10 Nitrate movement to groundwater and
- 11 surface water contamination by N and P being
- 12 restricted by complete ban on manure spreading
- 13 during non-cropping times of the year and
- 14 restrictions of the amount of manure that may be
- 15 spread by using phosphorus as a limiting nutrient.
- 16 The situation in the Netherlands is strikingly

- 17 similar to that in some counties in the U.S.,
- 18 unquote.
- 19 Dr. Schulte further stated, quote, the
- 20 problem with leakage from animal waste lagoons and
- 21 storage basins has resulted in them being
- 22 completely banned in countries such as the
- 23 Netherlands. When earthen basins are used in the
- 24 Netherlands, they must include a geosynthetic

- 1 liner, all around, in addition to a compacted
- 2 liner. The geosynthetic liner extends to the top
- 3 of the basin and covers the liquid surface to
- 4 reduce odors and emission of ammonia.
- 5 Section 506.311, subsection A, subsection
- 6 1, approval of waste management plans. It is
- 7 recommended to replace nitrogen with phosphorus to
- 8 read, livestock waste application rate of
- 9 phosphorus not to exceed the crop of phosphorus
- 10 requirements for optimum yield.
- 11 Section 25 of the Livestock Management
- 12 Facilities Act manure and field application in
- 13 reference to practicing odor controls. But what
- 14 about during storage of manure not mentioned here?
- I wish to point out several methods of
- 16 odor control that can be used today. Submit into
- 17 testimony here an article in 12 steps to reduce
- 18 lagoon odor by Dan Meyer, P.E., Ph.D. And there is
- 19 also a methane recovery program headed by the

- 20 USEPA. Purpose is to use methane digesters to
- 21 produce on-farm energy and reduce odors. The Board
- 22 should consider setting air quality standards
- 23 similar to that, similar to the Minnesota Pollution
- 24 Control Agency that specifies hydrogen sulfide

- 1 intensity and duration limits. I think those
- 2 numbers are at 50 parts per billion. I think some
- 3 others are submitting the testimony to that.
- 4 There needs to be quick and easy methods
- 5 of enforcement of rules in order to work well. In
- 6 the rules adoption process, there needs to -- there
- 7 needs to be a balance of economic harm and economic
- 8 benefit. In R97-15, on page is 11, under 4,
- 9 technical feasibility and economical
- 10 reasonableness, the estimated cost for a 1,000
- 11 animal unit lagoon at a site classified as highly
- vulnerable is proposed to range up to 48,000
- 13 initial capital costs.
- 14 IEPA Section 502.104 defines large
- operators as 300 plus animal units, and 502.103
- 16 defines large -- very large operators as 1,000
- 17 animal units. If new hog buildings cost around the
- 18 \$15 per square foot and hog density about 100
- 19 square feet per one animal unit, you arrive at a
- 20 building cost of 1.5 million dollars for housing
- 21 1,000 animal units.
- The comparable lagoon costs 48,000, is in

- 23 the range of 3 to 5 percent of the building costs.
- On page 11 of R97-14, the joint comment

- 1 by the Illinois Farm Bureau, Pork Producers and the
- 2 Illinois Beef Association indicates that if the
- 3 waste lagoon is not self-sealing, then a synthetic
- 4 liner or clay liner may be required to protect the
- 5 groundwater, gives the false impression that manure
- 6 in itself can seal a lagoon to acceptable levels.
- 7 Dr. Dennis Schulte, Ph.D., P.E., states,
- 8 quote, there are also research results, which
- 9 verify so-called self-sealing phenomenon in unlined
- 10 lagoons, but these studies generally were
- 11 short-term, did not include the effect of typical
- 12 operation and management practices such as periodic
- 13 pump down of the basins, unquote.
- In summary, I believe I've raised some
- 15 important issues to the Illinois Pollution Control
- 16 Board. If all the concerns cannot be addressed in
- 17 the livestock waste -- or Livestock Management
- 18 Facilities Act, then that shows cause for trailer
- 19 legislation to address remaining issues.
- 20 Whatever form the final rules take, they
- 21 must protect my family's farm-vacation business
- 22 from being ruined or adversely economically
- 23 impacted by the air quality, odors, surface water
- 24 quality and polluting the aquifer where we get our

- 1 drinking water.
- 2 The current Livestock Management
- 3 Facilities Act does not guarantee that for me. I
- 4 must stand fast until that guarantee is in place.
- 5 Thank you.
- In addition, I would like to submit into
- 7 as exhibits the items included in this booklet.
- 8 THE HEARING OFFICER: Okay. Could
- 9 you bring those over here? Take the whole folder
- 10 then?
- MR. HOBSON: Yeah.
- 12 THE HEARING OFFICER: We will mark
- 13 as Exhibit No. 40 Mr. Hobson's blue binder. That
- 14 includes his oral testimony, as well as pictures
- 15 from Bluff Dale Vacation Farm, and brochures, the
- 16 Illinois Agronomy Handbook, the National
- 17 Engineering Handbook, Agricultural Waste Management
- 18 Field Handbook, and other documents.
- 19 Now take a five-minute break.
- 20 (Recess taken at 5:05 p.m.)
- 21 THE HEARING OFFICER: Okay. Then
- 22 back on the record. Are there any questions for
- 23 Mr. Hobson? Yes. Mr. St John.
- MR. ST. JOHN: Mr. Hobson, there has

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1 been some discussion among our group just sitting

- 2 back there. We thought that lagoons were
- 3 impermeable, but if that's not the case, is there
- 4 allowable leakage?
- 5 MR. HOBSON: In some of the -- like
- 6 the technical notes, 716, that the USDA, NRCS has
- 7 put out, it recommended a final construction
- 8 permeability of ten -- or one times ten to the
- 9 minus seventh when you include the manure in
- 10 with -- in with that.
- 11 MR. ST JOHN: So every lagoon is
- 12 going to leak some.
- MR. HOBSON: If you go through the
- 14 math, I think that's a 10th of the foot per year of
- 15 distance traveled.
- MR. ST. JOHN: And my other
- 17 question, as a farmer, if I would choose to put in
- 18 a lagoon, and I want to be environmentally safe and
- 19 conscious, how are you -- how am I going to know if
- 20 my lagoon leak is at a satisfactory level, or
- 21 leaking greater?
- Is there anything under the law, the
- 23 Livestock Management Facilities Act, that is going
- 24 to allow me to find that out somehow?

- 1 MR. HOBSON: Other than the
- 2 permeability rate, there is no specific tests that
- 3 are required. But you can take soil tests and
- 4 permeability tests to prove that is the

- 5 permeability rate of your final constructed lagoon.
- 6 MR. ST JOHN: Are -- monitoring
- 7 wells, would they be something that would tell me
- 8 whether my lagoon is leaking at a rate that is much
- 9 higher than it should be leaking?
- 10 MR. HOBSON: Yeah. If -- I think
- 11 there is several different types of bacteria and so
- 12 forth that are common or specific just to hog
- 13 manure. That if you detected those, you could
- 14 specifically prove that leakage has occurred.
- MR. ST JOHN: To your knowledge,
- 16 then, is there anything in the Livestock Waste
- 17 Management Facilities Act, as it stands right now,
- 18 that would allow a producer to know whether his
- 19 lagoon is looking or not?
- 20 MR. HOBSON: Not that I know of.
- MR. ST JOHN: Okay. Thanks.
- 22 THE HEARING OFFICER: Thank you,
- 23 Mr. Hobson. Okay. Then we will go on with the
- 24 next witness. Mr. Walker.

- 1 MR. WALKER: Okay. For those of you
- 2 who are left, please let me know if my voice gets
- 3 too shrill.
- I am Dana Walker of Macomb. I grew up on
- 5 a family farm east and south of Carthage, about a
- 6 half a mile from the site of a pig factory now
- 7 under construction. And I have a fair amount of

- 8 experience in the planning and design of livestock
- 9 waste management systems.
- 10 Let's not kid ourselves. These
- 11 facilities are much more like factories than family
- 12 farms, and they should be regulated as such. Let's
- 13 make a distinction and draw the line at 300 or 400
- 14 animal units. That's roughly equal in waste
- production to a small city of 3,000 or 4,000
- 16 people.
- 17 Do you know of any Illinois town of this
- 18 size without an EPA-regulated sewage treatment
- 19 facility?
- 20 Any medical doctor will tell you that
- 21 hogs and people have a great deal in common
- 22 physically. Some would say the similarities extend
- 23 beyond physiology, but let's restrict the subject
- 24 to pollution control and environmental health.

- 1 Hog manure is a threat to human health,
- 2 as well as fish and other wildlife.
- 3 Lagoons should not be constructed on
- 4 sandy, glacial outwash. The risks for leaks and
- 5 groundwater contamination are unacceptable, even
- 6 when the lagoon is lined with clay. While a
- 7 properly constructed lagoon may not leak, the
- 8 economics for the additional clay and monitoring
- 9 wells are not good. There are probably better
- 10 places to build these systems.

- 11 Monitoring wells can detect
- 12 contamination, but what do they do to prevent
- 13 contamination? A leachate collection system around
- 14 a lagoon could prevent pollution of our
- 15 groundwater, and should be required wherever the
- 16 soil borings indicate a significant risk of
- 17 conductivity.
- 18 A better idea, however, is to restrict
- 19 siting to areas with favorable soils.
- 20 Another concern is the application of the
- 21 waste to the land. If it is not injected,
- 22 restrictions according to land slope should be
- 23 applied, as well as setbacks from waterways and any
- 24 nearby streams.

- Don't get me wrong. I eat pork, and I
- 2 realize that pork production is changing. And
- 3 change can be good. The current rules and the
- 4 existing law, however, are not adequate to protect
- 5 our precious health and environment.
- 6 Thank you very much.
- 7 THE HEARING OFFICER: Thank you,
- 8 Mr. Walker. Are there any questions for
- 9 Mr. Walker? Okay. Thank you. Seeing none, we
- 10 will go to our final witness, Mr. Mike Hennenfent.
- 11 MR. HENNENFENT: Yes. I'm Mike
- 12 Hennenfent. I live east of Knoxville. Born and
- 13 raised on a livestock farm in Knox County. We are

- 14 the operator of a farrow-to-finish sow operation of
- 15 approximately 160 sows. We have a beef cow herd,
- 16 and we have approximately 1500 acres of corn and
- 17 soybeans. So that's a little bit of background of
- 18 a what I consider a family farm.
- 19 My wife and I started a family farm when
- 20 we were married in 1966. We raised two -- three
- 21 children, I'm sorry, on our farm. And we have two
- 22 sons. Bill graduated from the University of
- 23 Illinois, and has returned to the home to join the
- 24 family farm. Our youngest son, Matthew, is a

- 1 junior at Illinois, and he also plans to return
- 2 home to our family farm. So we look toward the
- 3 future with excitement.
- 4 Swine has always been in my lifeblood, in
- 5 that my father was a swine producer and my brothers
- 6 are swine producers.
- 7 What is the future? We have no idea.
- 8 But as our operation has grown and expanded from
- 9 strictly a field operation and finishing our hogs
- 10 in lots to a totally confined operation, with
- 11 confinement for farrowing or nursery grower,
- 12 finisher, the project started in 1973, and it was
- 13 completed in 1989. Many of our original buildings
- 14 are to that stage that we either have to remodel or
- 15 dismantle.
- 16 Those decisions are going to be more than

- 17 the decisions of my sons than of mine. I represent
- 18 my operation. I don't represent all the pork
- 19 producers of Knox County or of Illinois. But I
- 20 feel that many of them and most of them are not
- 21 opposed to implementation of the Livestock Waste
- 22 Management Plan.
- We want to be good stewards of the soil
- 24 and of the environmental waste. And as we run our

- 1 operations, we soil test using the GPS method on
- 2 two-and-a-half acre grids, so that we know what our
- 3 requirement needs are.
- 4 We have analyzed our effluents, and our
- 5 rate of application is approximately 3,000 gallons
- 6 of the effluent to the acre from our slurry store.
- 7 This equivocates to approximately a tenth of an
- 8 inch if it was all rain and in the liquid form. So
- 9 we are not putting on such vast amounts that it's
- 10 running off the sloping, because the residue from
- 11 our no-till corn and soybeans absorbs most of all
- 12 this effluent that's applied.
- 13 And so it's not our desire to apply it in
- 14 astronomical amounts so that it does run off the --
- 15 even the minute slopes. We want it to stay where
- 16 we placed it, so it is there for the uptake in our
- 17 crop production.
- So I guess as a farmer, we are not
- 19 opposed to the implementation of the rules. We

- 20 appreciate that they are not so regulatory that
- 21 they prevent family farms like ours from -- from
- 22 growing to allow our sons to join our operations,
- 23 whether we double or triple or become part of a
- 24 co-op where we have larger numbers and specialize

- 1 in just farrowing or just nursery or just
- 2 finishing.
- 3 Economics has to -- to give us some
- 4 directions. And that will be determined a great
- 5 deal by the regulations that we have to meet. And
- 6 just because they're mega units and they are big
- 7 companies and they can pay the bill, that attitude
- 8 doesn't necessarily work for the family farm that's
- 9 raising their family and living in the same
- 10 environment.
- 11 We want to live in a safe environment
- 12 just as everyone else.
- 13 Thank you for the opportunity to share my
- 14 feelings. And I'm the last one. Thank you.
- THE HEARING OFFICER: Thank you,
- 16 Mr. Hennenfent.
- 17 MR. FLEMAL: I do have an question.
- 18 Have you had an opportunity to examine in any
- 19 detail the actual proposal that the Board is
- 20 looking at now, what the Department of Ag has
- 21 recommended that we adopt?
- MR. HENNENFENT: I personally have

- 23 not studied it.
- 24 MR. FLEMAL: You -- then my next

- 1 question would have been -- and let me ask it, then
- 2 if you say that you can't go any further on it,
- 3 that's fine.
- What I'm curious about, at any rate, is
- 5 if these regulations were adopted as essentially
- 6 proposed or some modifications suggested to us
- 7 today, what would that require you to do
- 8 additionally that you don't do now?
- 9 Do you have a sense of that?
- 10 MR. HENNENFENT: It would cause us
- 11 to do, I think, somewhat more paperwork. Our
- 12 operation is small enough that we are not in the --
- 13 in the larger numbers. But if we expand to bring
- 14 our sons into the operation, we are going to fall
- 15 in that category. And that is my concern
- 16 currently. It wouldn't have that major an effect
- 17 next year. Two years, it might.
- 18 MR. FLEMAL: Do you operate an
- 19 earthen lagoon at the present time?
- MR. HENNENFENT: No. We have a
- 21 slurry store that keeps it all contained within a
- 22 structure.
- MR. FLEMAL: Sometime in the future,
- 24 conceivably with an expansion, that might become an

- 1 appropriate management tool for you?
- 2 MR. HENNENFENT: That very much
- 3 might be so.
- 4 MR. FLEMAL: When that happens, then
- 5 you would, if these rules are adopted, be required
- 6 to construct that lagoon in accordance with
- 7 whatever comes out of this regulation.
- 8 MR. HENENNFENT: It would be
- 9 appropriate at that time, yes.
- 10 MR. FLEMAL: Similarly, another
- 11 provision of the rules before us is the requirement
- 12 that operators in various categories produce
- 13 livestock waste management plans.
- 14 And, again, I realize that maybe I'm
- 15 asking about things that you haven't had time to
- 16 reflect upon fully. But do you know if there --
- 17 there is things in that requirement that would go
- 18 beyond what you now as a steward of the your own
- 19 land do?
- 20 MR. HENENNFENT: I couldn't say for
- 21 sure. I feel that most of the producers are
- 22 doing -- doing the right things now. But I
- 23 don't -- I can't answer.
- MR. FLEMAL: Okay.

- 2 Pollution Control Board. You mentioned applying
- 3 effluent onto no-till land, and we have had some
- 4 discussion at previous hearing about the
- 5 application of manure on land, and you are the
- 6 first person that's talked about doing it on
- 7 no-till.
- 8 My question is: Do you inject the
- 9 effluent or just apply it topographically?
- 10 MR. HENNENFENT: At this time of
- 11 year, we apply it topographically, or on the top.
- 12 If we were all out applying that waste
- 13 today, it sure wouldn't smell. And if we were to
- 14 be dumping tens of thousands of gallons per acre,
- 15 then you would have -- you'd have a massive amount
- of effluent. But at 3,000 gallons to the acres,
- 17 that freezes, and there is little -- little odor.
- 18 And in my humble opinion, it's a much
- 19 better way of getting rid of it than knifing it
- 20 into the soil, and a week later, get a three-inch
- 21 rain, and just cut those trenches out and take all
- 22 that effluent and soil with it from putting it
- 23 in -- in trenches, as you incorporate it into the
- 24 soil with knifing -- with the knifing process. So

- 1 it makes it difficult to no-till.
- 2 We have to -- as we plant our corn, if we
- 3 knifed it in on soybean stubble going to corn, we
- 4 have to work the soil or use a soil finishing

- 5 device to level the ground in order that it's
- 6 acceptable for the planting of corn. So no tilling
- 7 and getting rid of manure doesn't really work that
- 8 well together if it's knifed in very deeply.
- 9 MS. TIPSORD: Thank you.
- 10 THE HEARING OFFICER: Thank you.
- 11 MR. KAUFMAN: I have a question.
- 12 THE HEARING OFFICER: Okay.
- 13 MR. KAUFMAN: Sam Kaufman, Jr., Knox
- 14 County again.
- 15 And Mike is my good neighbor. Mike and I
- 16 are good neighbors. I live down the road from
- 17 Mike, and I own the farm right across from Mike.
- 18 And Mike made a comment that there was not much
- 19 odor.
- Now, we don't get much odor at our home.
- 21 But the home is -- the house is empty across from
- 22 the field where they spread the manure.
- 23 And in my opinion, Mike, there is an
- 24 odor. I don't think I could fix that house up and

- 1 rent it to the type of people that you and I would
- 2 want in the neighborhood because of that odor.
- 3 That is just -- and then the other --
- 4 THE HEARING OFFICER: But just
- 5 please make it a question.
- 6 MR. KAUFMAN: The question then,
- 7 Mike, is: You were talking about how you knife in

- 8 the manure and just putting on a little and it all
- 9 works well with your operations. But if you would
- 10 get bigger, you know, then you'd have to put on
- 11 more manure per acre.
- Do you have the acres to do that with?
- 13 Am I clear? Didn't I understand you right when you
- 14 said that you knife in or spread on top manure, and
- it's only 3,000 gallons per whatever.
- MR. HENNENFENT: Correct.
- MR. KAUFMAN: With your 160 sow
- 18 unit. But if you would expand naturally, you'd
- 19 have more manure.
- 20 How are you going to handle that extra
- 21 manure?
- 22 You just have to put it on deeper so that
- 23 it would run off in the rain or what?
- MR. HENNENFENT: No. Putting more

- 1 gallons to the acre of effluent isn't the proper
- 2 method of use to get rid of it. I mean, it's
- 3 economically feasible to spread it on more acres at
- 4 the same amount, because we don't -- we can't get
- 5 our soil fertilities out of balance of high levels
- of phosphorus and not to a greater degree of pot
- 7 ash, because phosphorus is the main ingredient or
- 8 fertility product that gets out of balance.
- 9 So you -- you don't just put on more
- 10 gallons per acre to get rid of it. It's putting it

- 11 on more acre, same amount.
- MR. KAUFMAN: Do you think the mega
- 13 hog farms that may be constructed in the state of
- 14 Illinois have the acres to dispose of all this
- 15 waste and not put it on too heavy?
- 16 MR. HENNENFENT: I would assume that
- 17 would be taken into their consideration when they
- 18 put one of these up, Sam. I don't know. I know we
- 19 have enough for ours. And some day, we would like
- 20 to farm your farm so we can put some of it on it
- 21 too.
- MR. KAUFMAN: It wouldn't hurt it
- 23 any either.
- MR. HENNENFENT: And we are good

- 1 neighbors.
- THE HEARING OFFICER: That is
- 3 correct. Thank you.
- 4 MR. KAUFMAN: I'm not being
- 5 critical. Just trying to find out.
- 6 THE HEARING OFFICER: Thank you.
- 7 Are there any other questions? Yes. Could you
- 8 just come forward?
- 9 MR. SAWMAN: Wendell Sawman
- 10 (phonetic spelling). Mike, you talked about
- 11 bringing your sons back in. If they increase
- 12 setbacks, would that prohibit you from expanding
- 13 your operation and take away from the opportunity

- 14 to come back to the family farm.
- MR. HENNENFENT: It very possibly
- 16 could. It depends on how much they increase the
- 17 setbacks and the determination of setbacks. If
- 18 it's -- if the setback starts at any corner of our
- 19 property, yes, it might be very difficult, because
- 20 our farmstead. And probably where we would site
- 21 one would be somewhere in one corner of it rather
- 22 than in the back 40 where it might be farther away
- 23 from anyone.
- 24 So how the siting wording is would have

- 1 some factor, where we site it on our particular
- 2 location. But I think that would be probably the
- 3 possible problem for every siting.
- 4 So I feel that it should be the siting --
- 5 the siting of a facility should be from the
- 6 facility itself, the center of that production
- 7 area, not the perimeter boundary line of the real
- 8 estate of the total farm.
- 9 'Cause you want these facilities to have
- 10 hundreds of acres to use the effluent on. And if
- 11 you make that that boundary line of the total
- 12 property as a quarter, of a half mile from that, or
- 13 whatever figure you want to use, that prohibits the
- 14 family farm, and our 320 acres, from even really
- 15 being considered, when you have that distance from
- 16 the far corner.

- 17 It has to be just where the -- where the
- 18 hog production unit is located to start your siting
- 19 process.
- 20 THE HEARING OFFICER: Thank you,
- 21 Mr. Hennenfent. Are there any further questions of
- 22 Mr. Hennenfent? Could you please come forward.
- 23 Could you just come forward? I don't think the
- 24 court reporter will be able to hear you.

- 1 MS. BAIRD: Nina Baird (phonetic
- 2 spelling), Knox County. In relation to what you
- 3 are talking about my house, Mike, how do you
- 4 feel -- I agree with what you are saying about the
- 5 land measurement, about the measurements. But how
- 6 do you feel about using another property owner's
- 7 land for part of the setback?
- 8 MR. HENNENFENT: Using another
- 9 property owner's --
- 10 MS. BAIRD: If you wanted to put it
- in the corner of your farm and you wanted to use a
- 12 fourth mile of the other property owner's land as a
- 13 setback?
- 14 MR. HENNENFENT: I'm not following
- 15 your or --
- MS. BAIRD: That's what's happening
- 17 to me, Mike. That's the reason for my question.
- 18 MR. HENNENFENT: They are using your
- 19 land as a quarter mile setback?

- 20 MS. BAIRD: That kind of put you on
- 21 the spot there. But what's fair is fair, you
- 22 know. If you'd like to move to a corner of your
- 23 land, I feel kind of bad the way I'm being set up,
- 24 too, and I think that both sides need to be taken

- 1 into account, you know.
- THE HEARING OFFICER: Thank you.
- 3 Any further questions?
- 4 MR. KAUFMAN: Yes. I have another
- 5 question. I don't see if the setback -- and I
- 6 think this is a perfect time to explain this or
- 7 mention it, if I may. It has to do with setback
- 8 requirements.
- 9 THE HEARING OFFICER: Are you going
- 10 to give testimony or ask a question?
- 11 MR. KAUFMAN: I can ask a question
- 12 and make a comment later, if you want me to.
- 13 THE HEARING OFFICER: Yes.
- MR. KAUFMAN: So the question -- so
- 15 the question.
- 16 THE HEARING OFFICER: Ask the
- 17 question. Then we will swear you in. Then could
- 18 you go ahead.
- 19 MR. KAUFMAN: I talked to you
- 20 earlier, and you said I could make a comment after
- 21 this was --
- 22 THE HEARING OFFICER: Right. But I

- 23 meant after they were done, and I'd swear you in,
- 24 and you'd make the comment. How about if I swear

- 1 you in now?
- 2 MR. KAUFMAN: That's fine.
- 3 (Wherein the witness was sworn in by
- 4 the court reporter, saying I do, and testified as
- 5 follows:)
- 6 MR. KAUFMAN: I was just going to
- 7 ask Mike. This setback requirement you are talking
- 8 about, is it the reason you want that is because it
- 9 fits your particular instance, or is it for the
- 10 good of the whole industry?
- 11 Why couldn't anybody put their hog
- 12 confinement in the middle of their farm if they
- 13 want it so bad?
- 14 Why do they have to infringe, you know,
- on the neighbors?
- MR. HENNENFENT: The -- our current
- 17 location is in the corner of our property. If we
- 18 were to build a new one, we would probably move
- 19 away from that area. We might locate it on another
- 20 corner. Or, you know, I guess my concern was that
- 21 if we -- if we have -- in our case, we have a half
- 22 mile by three-quarters, so it's a rectangle. If
- 23 our -- if our facility is in on one side of it, and
- 24 it's another three-quarters of a mile to the next

1 boundary line of ours, and there is a house just

- 2 across the fence, now that nonresident or
- 3 non-farmhouse resident is three-quarters of a mile
- 4 from our swine operation, and yet he qualifies. He
- 5 could qualify for being within that quarter of a
- 6 mile that currently is now, I believe, Sam.
- 7 MR. KAUFMAN: Quarter of a mile from
- 8 what?
- 9 MR. HENNENFENT: From -- for siting
- 10 the one -- a non-farm resident is a quarter of a
- 11 mile. Is that not correct?
- 12 MR. KAUFMAN: But you said I would
- 13 be three-quarters of a mile.
- MR. HENNENFENT: But if they write
- 15 it for property, see it would be from our property
- 16 line, not from the siting of where the location of
- 17 the actual hog buildings were. That's what I say.
- 18 The siting should be where the hog buildings and/or
- 19 lagoon, rather than the entire property that it
- 20 sets on.
- 21 MR. KAUFMAN: Okay. And then the
- 22 comment that I'd like to make is this. Couple of
- 23 things, if I may, and it will be brief. It has to
- 24 do with the setback requirements. Why should there

- 2 a family living on a farm near one of these
- 3 facilities -- and I'm talking a home that's been
- 4 built for quite a while -- and a family who lives
- 5 in town, which is, you know, a half a mile?
- I mean, family is family, whether they
- 7 live on a farm or whether they live in town.
- 8 You know, is it a double standard or are
- 9 you discrim- -- not you, but is the rule
- 10 discriminating against a person who does live on a
- 11 farm?
- 12 Or what -- why would there be a double
- 13 standard?
- 14 And here is another question. And it
- doesn't need to be on the record. I don't even
- 16 kind of want to say it. But it just does seem to
- 17 me like this whole project that we are going
- 18 through all over the state is to benefit a few
- 19 corporations and a few farmers at the, quote,
- 20 unquote, expense of everybody else. And maybe --
- 21 maybe I don't see it clearly. But it just appears
- 22 that way.
- 23 But I'm really more concerned about the
- 24 setback requirements, which I truly believe should

- 1 be the same for all people, whether they live on a
- 2 farm or whether they live in town.
- I had one person tell me during the lunch
- 4 break that -- he said, well, that's why I moved to

- 5 town, so I wouldn't have to smell manure. And I
- 6 said, well, then you were forced to move to town,
- 7 so you wouldn't have to. That doesn't seem fair to
- 8 me.
- 9 I appreciate your time. And just
- 10 consider it. Thanks, Mike.
- 11 THE HEARING OFFICER: Thank you. Is
- 12 there anyone else in the audience that had not
- 13 signed up to testify that would like to give
- 14 testimony today? Okay. Seeing none,
- 15 Mr. Hennenfent, you may sit down.
- MR. HENNENFENT: Thank you very
- 17 much. I would just like to remind everyone that if
- 18 you would like to attend the next hearing, it will
- 19 be held in Mt. Vernon on Friday at 9 o'clock.
- 20 There is a map in the back of the room, or you can
- 21 get the address from us. And the final hearing
- 22 which was rescheduled due to snow -- it was
- 23 originally scheduled a few weeks ago -- will be
- 24 held in Champaign on Friday, February 7th.

- 1 And, too, remember that the record does
- 2 close in this matter on February 14th. So if you
- 3 want to file any public comments for the Board to
- 4 consider, please make sure that they arrive at the
- 5 Board by February 14th. Yes.
- 6 WOMAN AUDIENCE MEMBER: Is that
- 7 postmarked the 14th?

- 8 THE HEARING OFFICER: No. The Board
- 9 has to receive it by the 14th, so the mailbox rule
- 10 does not apply.
- MR. FLEMAL: Many hours ago, I
- 12 welcomed you and encouraged your participation.
- 13 It's been wonderful participation. We have had
- 14 wonderful, interesting perspectives, certainly
- 15 thoughtful perspectives today. I assure you that
- 16 the Board will take all of these into consideration
- 17 given the charge that we have got and the activity
- 18 that we are engaged in as mandated by the Illinois
- 19 General Assembly. Review all those comments in the
- 20 record.
- 21 I would like to say that everybody will
- 22 be pleased with what we come up with. I don't know
- 23 that I can appropriately say that. I hope you will
- 24 all be pleased, however, with the fact that the

- 1 Board will indeed deliberate clearly and closely
- 2 over what you have given us to think about. And
- 3 whatever the decision that is ultimately made on
- 4 these issues, we assure that it will be one that
- 5 has been made with a good deal of thought.
- 6 Thank you for helping us produce the kind
- 7 of information that hopefully will help us to make
- 8 that very best of well thought out decisions.
- 9 THE HEARING OFFICER: If you have
- 10 any other comments that you weren't able to say

- 11 that you wanted to talk to any of the agencies, I
- 12 know they're still representatives here from the
- 13 Department of Agriculture, Department of Natural
- 14 Resources, Illinois EPA, and Department of Public
- 15 Health. Majority of them are over there. If you
- 16 want to say anything to them, I'm sure they would
- 17 be happy to talk to you afterwards.
- 18 Another question?
- 19 WOMAN AUDIENCE MEMBER: Because I
- 20 wasn't in a position to get the address when you
- 21 gave it a while ago, I'd like to come up when you
- 22 have finished and get that address.
- THE HEARING OFFICER: That's fine.
- 24 WOMAN AUDIENCE MEMBER: I just

- 1 wanted to know when the transcript will be
- 2 available now. Will we be able to get the
- 3 transcript from just this meeting or from all the
- 4 meetings?
- 5 THE HEARING OFFICER: You can get
- 6 the transcripts from all the meetings. But as they
- 7 become available. I believe --
- 8 THE REPORTER: I was told Monday.
- 9 MR. FLEMAL: We are on an expedited
- 10 request for all reporters. Work them hard here.
- 11 Work them hard later.
- 12 WOMAN AUDIENCE MEMBER: Sheet back
- 13 there?

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14 THE HEARING OFFICER: Transcripts
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- 15 are not sent to people on the service list or
- 16 notice list. But also if you can get on the
- 17 Internet, we do post them on our web page,
- 18 downloaded in their entirety for anybody who wants
- 19 it
- 20 WOMAN AUDIENCE MEMBER: What if you
- 21 don't mess with a computer?
- MR. KAUFMAN: \$150 for postage.
- THE HEARING OFFICER: The site,
- 24 World Wide Web site, yes.

- 1 WOMAN AUDIENCE MEMBER: Said, what
- 2 is the site?
- 3 MR. FLEMAL: It's in the folder that
- 4 many of you have, and I guess it's another one of
- 5 those things that we ran out. If you are looking
- 6 for the web site, don't know what it is, there are
- 7 people still around who have that brochure. I
- 8 think I saved one copy myself.
- 9 THE HEARING OFFICER: And this
- 10 matter is now continued until the Mt. Vernon
- 11 hearing. Thank you.
- 12 (Proceedings concluded at 5:40 p.m.)
- 13
- 14
- 15
- 16

18 19 20 21 22 23 24 338 1 2 STATE OF ILLINOIS ) ) ss. 3 COUNTY OF ROCK ISLAND ) I, Victoria Fickel, a Notary Public, in 5 and for the County of Rock Island, in the State of Illinois, do hereby certify: 6 That the witnesses in the foregoing proceedings named were present at the time and 8 place therein specified; 9 That the said proceeding was taken before 10 me as a Notary Public at the said time and place and was taken down in shorthand writing by me; 11 12 That I am a Certified Shorthand Reporter of the State of Illinois, that the said proceeding 13 was thereafter under my direction transcribed into computer-aided transcription, and that the foregoing transcript constitutes a full, true and 14 correct report of the proceedings to the best of my ability in the situation which then and there took 15 place; 16 That I am a disinterested person to the said action. 18 19 IN WITNESS WHEREOF, I have hereto subscribed my hand and affixed my official seal

20	this 2nd day o	f February, 1997.
21		
22		
23		Victoria Fickel, Notary Public
24		In and For the County of Rock Island State of Illinois C.S.R. License No. 84-003220