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STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION

GROUND WATER RESOURCES COMMISSION
21ST REGULAR MEETING

VOLUME I - PAGES 1-288

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TRANSCRIPT OF THE GROUND WATER RESOURCES COMMISSION
MEETING, REPORTED BY DONNA T. CHANDLER, CERTIFIED
COURT REPORTER FOR THE STATE OF LOUISIANA.

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REPORTED AT:
THE CLAIBORNE BUILDING - 1ST FLOOR
THE LOUISIANA PURCHASE ROOM
1201 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

COMMENCING AT 12:15 P.M., ON JANUARY 19, 2012

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APPEARANCES

GROUND WATER RESOURCES COMMISSION MEMBERS:

SCOTT A. ANGELLE
KYLE BALKUM
BO BOLOURCHI
JAMES S. BURLAND
ELLIOT D. COLVIN
PAUL D. FREY
CHARLES KILLEBREW, Ph.D.
JACKIE LOEWER
ROBERT DAN "MICKEY" MAYS
TED W. McKINNEY
PAUL D. MILLER
EUGENE OWEN
BRAD SPICER
JAMES H. WELSH

GARY SNELLGROVE
JEFFREY JONES
JOHN W. ADAMS, ESQ.
OFFICE OF CONSERVATION
P.O. BOX 94275
BATON ROUGE, LOUISIANA 70804-9275

1 MR. ANGELLE: Okay. We are going to
2 go ahead and call the January 19th meeting of
3 the Ground Water Resources Commission to
4 order. I appreciate everyone being here. I
5 apologize for being tardy. And I would ask
6 that the staff call the roll.

7 MR. ADAMS: If, if you could please
8 sound off when I call your name.

9 Secretary Scott Angelle.

10 MR. ANGELLE: Here.

11 MR. ADAMS: Kyle Balkum.

12 MR. BALKUM: Here.

13 MR. ADAMS: Bo Bolourchi.

14 MR. BOLOURCHI: Here.

15 MR. ADAMS: James Burland.

16 MR. BURLAND: Here.

17 MR. ADAMS: Glenn Cambre.

18 Elliott Colvin.

19 MR. COLVIN: Here.

20 MR. ADAMS: William Downs.

21 Paul Frey.

22 MR. FREY: Here.

23 MR. ADAMS: Mayor Dan Hollingsworth.

24 Jimmy Johnston.

25 Charles Killebrew.

1 MR. KILLEBREW: Here.
2 MR. ADAMS: Jackie Loewer.
3 MR. LOEWER: Here.
4 MR. ADAMS: Mickey Mays.
5 MR. MAYS: Here.
6 MR. ADAMS: Ted McKinney.
7 MR. MCKINNEY: Here.
8 MR. ADAMS: Paul Miller.
9 MR. MILLER: Here.
10 MR. ADAMS: Eugene Owen.
11 MR. OWEN: Here.
12 MR. ADAMS: Kelsey Short.
13 Brad Spicer.
14 MR. SPICER: Here.
15 MR. ADAMS: Jim Welsh.
16 MR. WELSH: Here.
17 MR. ADAMS: Mr. Secretary, we, we do
18 have enough people to constitute a quorum. A
19 quorum requires 10 members. We have more
20 than 10 members.
21 MR. ANGELLE: Thank you very much.
22 Item No. 2, Adoption of the Meeting
23 Summary of December 7, Mr. Adams.
24 MR. ADAMS: Yes, sir. Thank you, sir.
25 As all of you received along with a

1 copy of the agenda in an e-mail earlier this
2 week, we sent a copy of the minutes from the
3 December 7th meeting. At this time, we
4 request a motion to approve those minutes.

5 MR. SPICER: I motion.

6 MR. ANGELLE: Motion by Spicer.

7 MR. MILLER: Mr. Chairman.

8 MR. ANGELLE: Second by Miller.

9 Any objection? Any discussion?

10 Hearing none, that motion is adopted.

11 I wanted to defer Item No. 3 because
12 we are going to spend the majority of our
13 time on Item 5, which is going to be part of
14 what we, what we are developing in, in Item
15 No. 3.

16 I do want to recognize Mr. Lou Buat,
17 with the -- former Assistant Secretary of the
18 Office of Coastal Resources, as well as
19 Mr. Tony Duplechin, a former employee of the
20 Department of Natural Resources.

21 Thank you for being here. We
22 appreciate your past contributions to the
23 state government and the sacrifices you made
24 to serve us. Great public employees, and I
25 appreciate you being here in your private

1 role.

2 Next item will be for us to -- I will
3 just pick up 4 and 5. And so just to kind of
4 pick up where I think we started some couple
5 years ago, it was to reconstitute the Ground
6 Water Resources Commission and make it the
7 epicenter of ground water policy in the state
8 and to, to bring about the, the kind of
9 conversation and the debate that I think was
10 missing when it came to, to ground water
11 resources.

12 At least my observation, again, as I
13 shared with you at the last meeting, for
14 some -- we are going to celebrate 200 years
15 of statehood this year. And for some perhaps
16 190 years, ground water debate has been
17 somewhat absent in terms of the management of
18 that resource, how do we, how do we manage
19 the resource to guarantee sustainability. I
20 think we have sustainability, but my
21 observation has been more about good luck
22 than it's been about good management. And,
23 and now, I think it's fair to say, from a
24 variety of challenges, the time has come for
25 us to hope for good luck, but to replace that

1 luck with good management. And I think good
2 management starts with, again, trying to
3 understand what are the component parts of
4 any resource management plan, and I think
5 there are a variety of things that we can
6 look at in the state government whether we
7 are, again, managing deer population or
8 waterfowl population or coastal resources, as
9 may be the case, some of the processes are
10 the same.

11 So having said that, we are,
12 obviously, moving towards giving the
13 legislature a report that is going to be due
14 on March the 1st. That will have a variety
15 of recommendations.

16 And having said that, I have asked --
17 we have identified, I think, nine different
18 component parts. I want to add a particular
19 item, I would call -- and we can do this
20 tomorrow. And it -- and I'm open, quite
21 frankly, to anybody bringing up any subject
22 matter that they believe ought to be added.
23 This is, again, our work, but it's not -- we
24 don't have a monopoly on good ideas.

25 While education probably takes into

1 account conservation, I do believe that
2 conservation at least has to be discussed.
3 And in a separate way, we may end up merging
4 conservation into education, but I do think
5 that we need to have a specific conversation
6 on, on conservation. And I'm not talking
7 about Office of Conservation or the
8 Commissioner of Conservation, as I am talking
9 about --

10 MR. SPICER: Or soil and water.

11 MR. ANGELLE: Yeah, or soil and water
12 conservation or any other kind of
13 conservation. But, but, but the verb, the
14 verb "conservation."

15 So having said that, I think we will
16 go ahead and move to Item 5.a., and
17 Monitoring is the first subset. We've
18 reserved a block of time for Monitoring. We
19 are going to go through a list of questions.
20 Some of them are going to be very obvious. I
21 would hope that, that the chairperson who is
22 leading the discussion, can provide
23 additional questions. I'm hopeful that
24 Commission members can provide additional
25 comment. And we are going to be interested

1 in hearing from members of the audience on
2 each particular section, not -- we are not
3 going to wait until the end to hear on, on
4 Evaluation or Incentives. We are going to
5 take those questions and those comments as we
6 go. This is intended to be kind of a get
7 comfortable, roll up the sleeves and begin to
8 put together, if you would, the meat on the
9 bone.

10 And I do want to thank the USGS for
11 being here. We appreciate you-all's
12 tremendous support and cooperation.
13 Certainly, we would not be doing the things
14 that we are doing in this state without your
15 support. And I do apologize for the issue
16 that we had relative to another item that I
17 will speak with you about, but, certainly, we
18 are very, very appreciative of that
19 relationship. It's one of the better ones we
20 have with the federal government in
21 Louisiana.

22 So I'm going to turn it over to Mr.
23 Killebrew, and staff will kind of begin to
24 lead these discussions points. And you can
25 take it from there.

1 MR. KILLEBREW: Thank you, Mr.
2 Secretary.

3 Let me just first say that knowing the
4 condition of our ground water resources is
5 certainly fundamental to our ability to
6 effectively manage those resources. And as
7 the Secretary said, Louisiana is now
8 confronted with increasingly complex issues
9 and challenges to our management and use of
10 ground water. That requires a broadbased
11 understanding of the status and the trends of
12 those resources.

13 So the subject of our first section
14 this afternoon, then, is Monitoring, which
15 essentially asked the question as to how we
16 can enhance our ability to collect
17 information from the aquifers, from the
18 landscape, look at changes in the present,
19 and to compare those changes with historical
20 data and information to determine whether
21 those changes constitute a threat to
22 sustainability.

23 So we have formulated to that end a
24 number of questions which are designed to get
25 at these issues. And what I will do is read

1 the question off, and hopefully that will
2 stimulate discussion, comments, and we will
3 take them each in turn. And I see we, we
4 have the questions up on the presentation
5 there for, for the audience to see. So let's
6 go ahead and start with the first one.

7 The question is, Should the state
8 invest in a robust network of observation
9 wells?

10 Let me just say that we all know that
11 ground water monitoring normally involves a
12 network of observation wells to obtain
13 aquifer and geological information. They
14 usually measure ground water elevation or
15 levels. They can measure water quality. I
16 don't know the, the exact number of
17 observation wells we have currently in our
18 system, but I am aware of the fact through
19 our previous discussions that there are
20 significant data gaps in aquifer monitoring.
21 And the idea behind this question, basically,
22 is to increase the monitoring, the number of
23 wells and the frequency of monitoring that we
24 do.

25 So with that, let me invite any

1 comments that we might have on that
2 particular topic. Any --

3 MR. ANGELLE: Mr. Killebrew --

4 MR. KILLEBREW: Yes.

5 MR. ANGELLE: -- so I guess the
6 question should the state invest. I would
7 say that, certainly, from my standpoint, the
8 answer would be yes.

9 I'm also -- I also think we need to
10 expand that question to, to define, to define
11 what is a robust network. What is a, what is
12 the minimum network that would lead to good
13 management decisions, lead us to manage the
14 resource.

15 This tells me that, the fact that we
16 are asking this question, leads me to believe
17 that we do not have a, an appropriate network
18 of observation wells to give us robust
19 management opportunities. So I don't know if
20 our staff or USGS can help us with that to
21 help -- you know, I don't know if there's a,
22 by way of a comparison, a good feel, a Good
23 Housekeeping Seal of Approval on how many
24 wells you have. I realize that different
25 aquifers may have different challenges. And

1 so I'm looking to Mr. Lovelace. Hopefully
2 you're looking at me that you're ready to
3 jump in and answer this question.

4 MR. LOVELACE: Sure.

5 Yeah, there's no magic number or magic
6 formula to determine how many wells you need.
7 As you said, every, every aquifer has
8 different issues. There's different uses,
9 depends on the water quality and the use, how
10 much interaction of the aquifer to the --
11 impacts the pumping as to how many wells you
12 might want to have.

13 I can tell you back prior to about
14 1984, we had about 800 wells that we
15 monitored water levels in different
16 intervals. Some were monthly; some were
17 quarterly; some semi-annually; some we are
18 doing every five years.

19 Certainly, we have about 200 now on
20 networks with DOTD and Capital Area that we
21 monitor water levels in. And, obviously, you
22 know, 200 wells scattered across the state
23 in, in a couple dozen aquifers, you know, you
24 are going to have plenty of holes there. And
25 so more data is always better. You know, it

1 would be nice to be able to patch some of
2 those holes, and that's something we could
3 look at and see, you know, where -- go
4 through aquifer-by-aquifer, and say really
5 what are the data needs in those areas. And
6 to do that, you look at, you know, current
7 impacts, basically, potentiometric surfaces,
8 what do the water levels look like now at
9 this time? Are there places where there are
10 cones of depression that we should be
11 monitoring? Where is all the pumping? Look
12 at the pumping records, the water use stuff
13 that we have, see what the impacts of that
14 are. Is there, you know, planned future
15 pumping that you want to look at? Where are
16 the areas of development?

17 Obviously, the Haynesville Shale
18 areas, you know, we -- that was an area that
19 we really weren't monitoring in because,
20 prior to that development, there just --
21 there hasn't been a whole lot happening up
22 there. But between the frac wells and the
23 growth of subdivisions south of Shreveport,
24 all of a sudden there was a problem, and we
25 didn't have a whole lot of information for

1 that area.

2 So all those things need to be taken
3 into account to look and really develop a
4 plan as to the best way to sort of optimize
5 the monitoring.

6 MR. ANGELLE: So given the
7 opportunity, could USGS assist -- and,
8 obviously, I realize there's costs associated
9 with that -- in the development of the
10 appropriate network of observation wells on
11 an aquifer-by-aquifer basis?

12 MR. LOVELACE: Absolutely.

13 MR. KILLEBREW: Just further
14 clarification. You said there are 200
15 monitoring wells, observation wells,
16 currently?

17 MR. LOVELACE: For water levels.

18 MR. KILLEBREW: For water levels.

19 MR. LOVELACE: Right.

20 MR. KILLEBREW: Okay. And what
21 frequency do we get information from those
22 wells?

23 MR. LOVELACE: Most of them are
24 quarterly measurements.

25 MR. KILLEBREW: Quarterly

1 measurements.

2 MR. LOVELACE: Yes, sir.

3 MR. KILLEBREW: Okay. Are there any
4 realtime monitoring facilities?

5 MR. LOVELACE: There are, there are a
6 few in, in about -- we have about a dozen of
7 them set up right now. The bulk of them are
8 in the Sparta aquifer. We do have one or two
9 in the Chicot, and a couple in different
10 aquifers in central Louisiana around the
11 Alexandria area.

12 You know, that's something that, you
13 know, we look at, too, is the actual
14 frequency. In some areas, you don't
15 necessarily need realtime monitoring where
16 water levels aren't changing very quickly.
17 Quarterly may be adequate. Semi-annual may
18 be adequate in some.

19 In other areas where water levels may
20 be changing very rapidly due to either
21 development or due to just rapid fluctuations
22 caused by seasonal pumping or something new
23 happening, you may want to look at, you know,
24 doing something either realtime or monthly or
25 something at a higher frequency.

1 The down, the downside of quarterly is
2 that you don't always see the peaks. You
3 know, typically as water levels go up and
4 down in a lot, in a lot of aquifers that are
5 impacted by seasonal pumping, you know, they
6 rise and they fall. You know, quarterly
7 measurements don't always get those peaks.
8 We get somewhere in between that fluctuation.

9 MR. KILLEBREW: Okay. Any further
10 questions, comments?

11 MR. LOEWER: Over here. My button is
12 not working.

13 The 200 and some monitoring wells we
14 have now, someone made a decision at some
15 point to do that. And given the fact that we
16 know that there's data gaps in our
17 information, is there anything on, on the
18 plan now that the decision has been made for
19 more? We know what we had. Before we jump
20 and say let's have a whole bunch more, you
21 know, is that an increase in number? Are
22 there plans, or is it just static? That
23 would be good to know.

24 MR. LOVELACE: Right now the work we
25 do is pretty static.

1 MR. LOEWER: And no plans for more to
2 fill these gaps and the holes that we have
3 now?

4 MR. LOVELACE: No, sir.

5 MR. ANGELLE: I think I would answer
6 that I think that there would be a desire to
7 do more. Obviously, somebody made the
8 decision in 1984 to go from 800 to 200. I'm
9 assuming -- it may not have been 800 to 200.
10 It may have been 800 to 750 and a gradual
11 rather than falling off the cliff.

12 I'm assuming that that was a
13 financial -- can anybody provide any history
14 on that?

15 MR. SPICER: Well, I can't provide
16 history on that, but --

17 MR. ANGELLE: You're a pretty old guy.

18 MR. SPICER: USGS cut back, but know
19 why the state did, and, of course, that's a
20 corporate agreement. So that was the impact.
21 We had a serious budget crisis starting in
22 '84. So that's probably what happened.

23 MR. LOVELACE: That's exactly what it
24 was. The nature of our agreement with the
25 cost-sharing was with a cut on the state

1 side, there was an equal cut on our side.

2 MR. ANGELLE: So what is the nature of
3 that cost-share? Historically, it's a 50/50
4 cost-share.

5 MR. LOVELACE: It was back then. It's
6 sort of deteriorated now. It's closer to
7 probably 60/40, the state providing more.
8 Because our, our budget has been pretty
9 static for quite a while as far as our what
10 we call our cooperative funds that we can use
11 for matching.

12 MR. ANGELLE: And you don't see that
13 changing based on home office discussions?

14 MR. LOVELACE: No, sir.

15 MR. ANGELLE: In fact, it could be the
16 opposite?

17 MR. LOVELACE: Unfortunately, no. No.

18 MR. ANGELLE: Okay. All right.

19 So, Mr. Killebrew, again, you know, we
20 are going to have a variety of discussion on
21 a lot of items. I would like to suggest that
22 one of the take-aways under the Monitoring
23 program is that, is that we make the
24 observation that at one time we had working
25 with USGS in 1984, 800 monitoring wells.

1 That was viewed to be an appropriate amount.
2 And through a variety of budget cuts and
3 management decisions, that number has
4 dwindled to 200.

5 Has that number dwindled, say, in the
6 last four years?

7 MR. LOVELACE: No. It was pretty
8 sharp. It happened in '84.

9 MR. ANGELLE: Okay. So we did fall
10 off a cliff and get to 200?

11 MR. ARCEMENT: Yeah.

12 MR. ANGELLE: Okay. So we could
13 probably get some history on graphing -- and
14 I'm just reaching out to the staff on that --
15 because I think that's important to the
16 legislature to know where that number fell
17 off and then we've been, we've been constant.

18 But my suggestion, Mr. Killebrew,
19 would be that we would, we would get -- make
20 that observation of the historic amount, and
21 that we would, we would reach out as an
22 action item to USGS -- which I think we
23 already have, but to make it official --
24 asking them to help design what would be the
25 appropriate monitoring observation well

1 network, whatever the appropriate wording,
2 phrase, on an aquifer-by-aquifer basis.

3 MR. MAYS: Scott.

4 Would the real purpose of the
5 monitoring wells, or a part of the purpose of
6 the monitoring wells, be to build models for
7 each aquifer?

8 MR. ANGELLE: I think, I think that
9 there is some discussion in one of the slides
10 about modeling. But absolutely from my
11 standpoint, yes, sir.

12 MR. KILLEBREW: I think we will
13 address that later on in the questions. We
14 will have an opportunity to discuss it a
15 little further.

16 Any other comments?

17 MR. MCKINNEY: Yes.

18 I would assume that in making this
19 decision to continue monitoring, any
20 additional ones would be in areas that we
21 deem to be critical areas that are needing it
22 and not just arbitrarily. Logic will tell
23 you that.

24 MR. ANGELLE: Right, I think that's
25 right. And I think that's why it's so

1 important that we look at from a, from a
2 aquifer-by-aquifer basis. Certainly, some
3 are going to need more medicine than others
4 and we ought to apply where the sickest, if
5 you will allow me to use that analogy.

6 MR. MCKINNEY: Sure.

7 MR. OWEN: A definition of terms. Is
8 the title "observation well" intended to mean
9 a well in which solely the use of that well
10 is observation of water levels, or can a
11 production well that is taken out of service
12 and levels measured suffice?

13 MR. LOVELACE: Yes. No. The wells in
14 our network now are a variety of wells for
15 different uses. Back in -- some of them are
16 USGS wells, but the bulk of them are wells
17 that some of them are still in service. We,
18 we look for an area where there's a need and
19 then start looking for wells that we could
20 possibly use. Obviously, when the well's out
21 of service, that's even better, because we
22 are looking for that static water level
23 measurement. But in some cases, we do ask
24 the well owners to turn the well off long
25 enough for, for the well's water levels to

1 equilibrate and get a good static
2 measurement.

3 MR. ANGELLE: So that's driven by, in
4 some cases, if you, if you had a need to have
5 a, a, a much more numerous, a more numerous I
6 should say, number of monitoring wells in a
7 particular area and you're challenged by
8 resources, you would try to find any way you
9 possibly could to get that data through the
10 cooperation of folks in the area from well
11 owners?

12 MR. LOVELACE: Yeah, from well owners,
13 yes.

14 MR. ANGELLE: I got you. All right.

15 MR. KILLEBREW: Okay. If there are no
16 other comments, let's move ahead so we can
17 try to stay within our time allotted.

18 Are there any opportunities to
19 leverage with other state agencies, such as
20 DEQ, Coastal, LSU Shreveport, et cetera?

21 I'm aware of the fact that -- of
22 course, this is related to the first
23 question. At a previous Commission meeting,
24 we did have a number of state agency
25 representatives that presented information on

1 their monitoring programs. I wasn't at that
2 meeting, but I realize that DEQ does have an
3 aquifer sampling assessment program, which I
4 think samples are of water quality, and, of
5 course, DHH also has a program that has to do
6 with public supply wells. I don't know the
7 details of those.

8 But, but the basic question is, can we
9 see opportunities in those kinds of
10 monitoring programs to, to leverage and
11 get -- provide more information to our
12 effort? And so I would have to ask the first
13 question, since we have already reviewed some
14 of this, and this was probably -- I think
15 there's a transcript back there back in 2010
16 where we discussed that.

17 Are there any thoughts on that, that
18 whole issue, the question about leveraging
19 resources with other state agencies?

20 Gary, do you have any thoughts on
21 that?

22 MR. SNELLGROVE: Well, I would like to
23 add that in discussions with DEQ, it may be
24 difficult to -- for us, for our purposes of
25 seeking water level data, to rely upon their

1 existing network or the way that they do
2 their business as their focus is water
3 quality, and they typically just take draws
4 from taps, if you will, and don't really open
5 the wellhead and go into the well and, and
6 what have you to pull the samples. So we may
7 not, we may not have an opportunity there.

8 With the public supply group, in our
9 discussions with Department of Health and
10 Hospitals, it's pretty much the burden on the
11 public supply provider or the well owner to
12 submit data, water quality data, into that
13 agency. Even if we could, you know, utilize
14 that as a possibility, for what we had
15 mentioned earlier, USGS had reported that the
16 gain with water levels and determinations of
17 water levels is to assess static condition.
18 Most of the public supply providers are in a
19 well or well nest field, what have you, and
20 they're aggressively pumping pretty much all
21 the time. So even if they have a well that
22 may be in that, in their network or in their
23 field that's nearby, it would still probably
24 most likely be unduly be influenced by the
25 pumping of the other nearby wells. So,

1 therefore, you'd get a biased water level.

2 But, but there still may be some
3 opportunity there. I wouldn't say that that
4 would be a true statement for all public
5 supply providers, as they have a pretty big
6 reach with, you know, the size and, and the
7 volume of what they deal with, with what is
8 all defined as public supply.

9 So, so, you know, of course, we, we do
10 recognize on here -- it does list LSU
11 Shreveport and Gary Hanson's group and their
12 network. I think they have got eight wells
13 that we currently are utilizing for us to
14 monitor or to, to assess conditions in the
15 south Shreveport or south Caddo Parish area
16 under the ground water emergency. So
17 there's, there's certainly some opportunities
18 there, and there may be others.

19 I guess I'm aware of these three here,
20 but I would ask, you know, the group if there
21 are some that we are not considering, please,
22 you know, at this time, please inform us and
23 we can pursue it. Our staff can look further
24 into it. Are there other groups out there
25 that are doing water level monitoring or

1 water quality monitoring that we could
2 possibly include in our research?

3 MR. SPICER: Yes. LDAF has that
4 monitoring program, pesticides. And we had
5 had the same issues as the other folks that
6 are collecting data.

7 MR. SNELLGROVE: Tap versus pulling a
8 wellhead?

9 MR. SPICER: Yeah.

10 MR. ANGELLE: So we would want to, we
11 would want to reach out to every possible
12 water stakeholder, whether it's the Rural
13 Water Association, DEQ, LSU Shreveport,
14 whoever is out there, Coastal and, and try to
15 have them part of what we are doing here.

16 I thought it was interesting what you
17 said about DEQ not being able to, perhaps,
18 help us in, in water level monitoring.
19 However, provided whatever money they are
20 spending on water level monitoring, if they
21 would spend that money on more observation
22 wells, they could ride coattails, they could
23 ride coattails on water quality by taking
24 samples from our observation wells as opposed
25 to us riding coattails on their, on their

1 program. And as a result, they would have a
2 much broader water quality sampling program
3 than we would have.

4 MR. SNELLGROVE: Yes, sir.

5 MR. ANGELLE: Than we currently have.

6 MR. SNELLGROVE: Yes, sir. They could
7 benefit from our effort should we be able to
8 grab more network and into the network, yes,
9 sir.

10 MR. MILLER: Mr. Secretary.

11 I might add, I mean, our focus is
12 really water quality. But, again, if you're
13 assessing an overall aquifer, that's an
14 important piece of information. I think it's
15 good as far as the coordinating between the
16 agencies, DEQ and the efforts as far as
17 quality of the water, and Ag as far as their
18 work in the same basic area, maybe from a
19 different perspective. But all of that comes
20 into play with quality of the aquifer.

21 As everybody, as all the agencies
22 sitting here, funds are all limited as far as
23 what we can do. So each one of us kind of
24 have a mission and a focus. But I think the
25 point is well made that we need to make sure

1 that each of us know what the other is doing
2 so we are not wasting any effort or
3 overlapping and try to see if we can tailor
4 maybe some of the efforts to meet a bigger
5 purpose.

6 MR. ANGELLE: Absolutely.

7 MR. MILLER: I think those kind of
8 coordinations will bring benefits to us, even
9 though our focus may be somewhat different.

10 MR. ANGELLE: Correct. Correct.

11 MR. KILLEBREW: And question No. 3,
12 really, is kind of derived from the second
13 question in a sense: Should the state
14 investigate opportunities to leverage where
15 surface and ground water resources exist then
16 reassess monitoring needs?

17 I guess that's kind of a procedural
18 question. So if we look at the resources
19 that exist for monitoring, perhaps, in other
20 agencies or other institutions, should that
21 be a first step in developing a monitoring
22 plan, and then derive our monitoring plan
23 from that?

24 Any thoughts on that?

25 MR. ANGELLE: Yeah. My thought would

1 be that that would be the question we would
2 put to USGS trying to tie into No. 1, taking
3 into consideration where, where, given the
4 fact that we already, we already have
5 monitoring opportunities going on in the, in
6 certain areas, how might we use that to
7 assess or, in this case, reassess our needs.

8 MR. KILLEBREW: Any further thoughts?

9 And speaking of USGS, the next
10 question, Should USGS be the primary resource
11 for monitoring?

12 Well, we have already heard that DNR
13 does have some existing contracts, I think,
14 with -- is that true, Gary? -- in the Sparta
15 area, and then we have something recently
16 developed for Wilcox --

17 MR. SNELLGROVE: Yes, sir.

18 MR. KILLEBREW: -- with USGS. And,
19 certainly, as everyone knows, the agency
20 enjoys a reputation for a very high level of
21 technical expertise credibility, and we have
22 already alluded to the fact that they would
23 be an excellent partner in this effort. So
24 those just are my thoughts on that, on that
25 question.

1 Anyone else have any, any comments to
2 that?

3 MR. ANGELLE: I do think that it's
4 important, and we don't have to do 100
5 percent of the monitoring wells with USGS,
6 but I think, I think it is important that
7 USGS be our certainly -- I mean, I realize
8 that LSU Shreveport may have some outliers,
9 we have may have a particular situation.
10 Like, I think we're partnering with, with
11 Union County, Arkansas, that may be outside
12 of this network. I get that.

13 But from my standpoint, we should rely
14 on an agency with the credibility of USGS to
15 gather that data and to report to us in
16 standard operating procedures that, that
17 would withstand the, the test of, of, you
18 know, peer review.

19 MR. MCKINNEY: Mr. Chairman.

20 I think the question also would be
21 would they be willing to do it.

22 MR. ANGELLE: Yeah. I think, I think
23 it's if you pay me, I'm going to do it.

24 Did I save you a trip to the
25 microphone?

1 MR. LOVELACE: Yeah. Pretty much,
2 yeah.

3 MR. ANGELLE: I mean, that's what you
4 do, right?

5 MR. LOVELACE: That's what we do. We
6 are a water research organization agency.
7 Pretty much the monitoring of surface and
8 ground water is, is, essentially, our bread
9 and butter. That's what we do and --

10 MR. ANGELLE: We just need a little
11 bit more bread. I got it. I got it.

12 MR. KILLEBREW: Further comments on
13 that one?

14 The next one, If resources are
15 limited, would monitoring programs be limited
16 to areas -- excuse me.

17 I'm sorry.

18 MR. HANSON: Yeah, could I?

19 MR. KILLEBREW: Yes, sir.

20 MR. HANSON: I was just going to add,
21 that the program we have at LSU Shreveport is
22 a joint Caddo Parish program. They pretty
23 much fund it and then we use our student and
24 faculty to do that. We are a little
25 different from what the USGS is doing. And

1 they certainly are the eminent authority in
2 that field.

3 We collect our data monthly for level
4 and we do quarterly, like USG -- USGS does,
5 for water quality. So it is water quality
6 wells and level.

7 One of the things that we were very
8 concerned about was that there were no skips
9 and data gaps into the future. So the parish
10 has agreed to pay for this from here on out.
11 That is one unfortunate thing that happens
12 occasionally with USGS, depending on how the
13 funds are going, so -- but, but they
14 certainly are the preeminent authority on
15 that. Thank you.

16 MR. KILLEBREW: Thank you, sir.

17 Any more comments?

18 Okay. If resources are limited, would
19 monitoring programs be limited to the areas
20 of ground water aquifers with existing
21 aquifer sustainability challenges due to
22 water level decline, saltwater encroachment
23 or subsidence?

24 And, and almost certainly resources
25 will be limited in somehow or another. But

1 this gets at how the monitoring program would
2 be planned and what it would address.

3 Do we have any further thoughts on
4 that? One alluded to it in an earlier --

5 MR. ANGELLE: Yeah, I think that goes
6 to what Mr. Ted was saying. Right, Mr. Ted?

7 MR. MCKINNEY: Absolutely.

8 MR. KILLEBREW: Okay. If no further
9 comments, we'll move ahead.

10 MR. ANGELLE: Would we be able to
11 rank, may be a poor choice of words, but
12 would we be able to rank the aquifers on
13 which ones are having more challenges and,
14 therefore, should have a larger network,
15 monitoring network? I mean, obviously, you
16 know, the Sparta and Wilcox issues that I'm
17 aware of would lead me to believe that we
18 would have a more robust monitoring network
19 there than in fill-in-the-blank. I don't
20 want to say which one it is, because I'm not
21 sure which one is the least challenged.
22 Obviously, Baton Rouge has some issues with
23 saltwater encroachment. So would we on a
24 scientific standpoint be able to do that?

25 MR. LOVELACE: Yes. Yeah. The draft

1 recommendations pointed out the number of
2 problems, and definitely wanted to try to
3 address those problems. And, and, you know,
4 try and -- yeah. Yeah. Absolutely.
5 Definitely prioritize the need in different
6 areas.

7 MR. ANGELLE: Okay. Good.

8 MR. KILLEBREW: Further comments?

9 Okay. What are the pros and cons of
10 implementing a technology-based approach
11 versus labor-intensive approach to the
12 collection and reporting of water level and
13 water quality data?

14 We had some discussion of this at a
15 previous meeting.

16 Gary, would you mind addressing --
17 yeah -- addressing this issue? I think you
18 had some comments the last time we spoke.

19 MR. SNELLGROVE: Yeah. Well, the
20 comment, I mean, the question there is, is
21 focused on remote, say, data access versus
22 physically -- you know, a person or a
23 technician physically going to a well
24 location and collecting the data, collecting
25 the sample. So, so the discussion was, I

1 think, that, you know, whether or not -- what
2 would be the most practical or feasible way
3 about getting the data, both short-term and
4 long-term, and putting into consideration.
5 Of course, initial cost, but then looking
6 over time whether or not that cost would,
7 would -- you know, initial cost is high, but
8 over time it would pay for itself, because
9 you are not having to consistently go back
10 out there.

11 I think this is probably more of a
12 question that USGS may have a better feel for
13 as they, as they incorporate both
14 technologies and probably a spectrum in
15 between somewhere, you know, all throughout.

16 Which, you know, when we had our
17 meeting the other day, we really didn't have
18 enough information to be able to, to develop
19 a firm answer one way or the other.

20 MR. LOVELACE: Well, basically, you
21 could send somebody out to get the water
22 level measurement. What we do now is, we
23 have someone go out to a well quarterly and
24 measure -- typically quarterly to measure the
25 water level. We have some wells where we

1 have recorders in them. They are basically
2 pressure transducers. They are down below
3 the water level. They record the change in
4 pressure, which is the difference in the
5 water level. We still send somebody out
6 there quarterly to download the data from it
7 and make sure that it's still working.

8 The third option is what we call the
9 realtime wells, which we have the pressure
10 transducer out there. And those, I should
11 say, those are measuring hourly water levels.
12 There's a pressure transducer in there,
13 whether it's going to a recorder or going to
14 equipment that's sending it up to a satellite
15 and beaming it back to our office where we
16 put it on the Web. It's, it's hourly data.
17 Still someone needs to go out there at least
18 quarterly to make sure that the, that the
19 equipment is, is functioning, that the
20 recorder is still working. Because when it's
21 just sitting out there, it's a
22 battery-powered device, and we all know
23 batteries fail on occasion.

24 The interesting thing about the
25 satellite data we've found out is that,

1 especially with our surface water gauges, is
2 that, that when those things do go out, it's
3 apparent to everybody right away and they
4 want you to go out there right away and fix
5 them. So especially with our surface water
6 gauges, we typically are making more than
7 quarterly trips.

8 The equipment is, is definitely more
9 expensive, especially -- the recorders aren't
10 necessarily that expensive, but, but it is an
11 additional expense of equipment. When you
12 get into the realtime, that expense goes up
13 quite a bit because now you are talking about
14 transmitters and receivers and having the
15 license for the satellite. And it just, it
16 gets pretty expensive.

17 MR. ANGELLE: Is there any value for
18 managing ground water to have realtime? I
19 mean, it would seem to me that the decision
20 for management to invest in it is, first of
21 all, the cost comparison of labor versus
22 electronics. And I get that. I'm not sure
23 that daily, hourly measurement of ground
24 water levels is, is something that is
25 necessary to manage the resource.

1 MR. LOVELACE: And we have, we have
2 debated that. I would look at it in two, two
3 ways.

4 If you are in an area where there's
5 big fluctuations, either seasonally or during
6 the day, maybe you would want to have that.
7 Take the situation in south of Caddo Parish.
8 Those are mostly domestic wells and frac
9 wells that are causing the issue there.
10 Well, I mean, along with the drought. The
11 drought is the real problem. But when
12 everyone gets home from work and they turn on
13 -- everyone turns on their water at the same
14 time to start cooking dinner, wash clothes or
15 whatever, all of a sudden the water levels
16 drop. You see that if you have that hourly
17 data. You can start picking up on that and
18 use it as a -- try to use it as a management
19 tool. You can, you know, see that, hey, when
20 this guy started fracking, all of a sudden
21 the water just, the water level just drops.
22 So it's really on a, a specific, you know,
23 point basis whether you want to do that.

24 The other thing could just be, you
25 know, sort of I look at it as being

1 educational. When you have something out
2 there on the Web that people can look at, you
3 may just want to have, hey, this is one
4 representative well for, say, the Chicot
5 aquifer system. It's right in the middle of
6 the Chicot and the rice farming area. And
7 you can see how water levels are changing
8 over time. It's real easy to bring that up
9 and look at that data, and sort of gives
10 people a sense of what's going on. They can
11 see, well, maybe, in their area water levels
12 really don't change all that fast. There's a
13 lot of public misperceptions about what
14 ground water -- what happens with ground
15 water.

16 MR. ANGELLE: So you would envision,
17 obviously, a mix of, of different types of --

18 MR. LOVELACE: Different technologies.
19 I wouldn't say a whole lot of realtime wells,
20 but things where we would discuss that with,
21 with the DNR staff and the Commission and
22 determine, you know, where we possibly want
23 to put that, where we will get the most bang
24 for the buck.

25 MR. KILLEBREW: Any further thoughts?

1 Okay. Who all would benefit from
2 expansion of the existing observation well
3 network?

4 Well, to me that sounds like kind of a
5 cost benefit question in a way, even though
6 we are not talking about quantitative
7 information here. But if we build a robust
8 network of observation wells, increase our
9 capacity to monitor ground water. Over on
10 the other hand, we would certainly improve
11 our ability to serve Louisiana public at
12 large, public that uses the resource. We
13 would benefit DNR's capability to monitor.
14 Perhaps, DEQ and other agencies might also
15 capitalize on that.

16 Are there any other further -- any
17 further thoughts on that in terms of the
18 benefits?

19 MR. ANGELLE: Our local governments,
20 perhaps.

21 MR. KILLEBREW: Yes, sir.

22 MR. ANGELLE: Economic development
23 leaders, Farm Bureau.

24 Brad.

25 MR. SPICER: I think a focus of this

1 network to provide information to the users,
2 really, so they know if an action -- they
3 would like to take action. If we have a
4 series of drop in water levels, then the
5 community needs to be aware of what's
6 happening. And you can learn from that.
7 It's a better informed public and easier to
8 manage.

9 MR. ANGELLE: Yeah, I think that's
10 right. I think what I'm leading at here, for
11 instance, I'm aware of a facility where
12 Louisiana and Texas are competing for, from
13 an economic development standpoint. I think
14 we have all kind of heard some issues in
15 Texas with regard to their drought issues.
16 The question to me then would be, you know,
17 if our economic development secretary could
18 sit down with the decision-makers and say,
19 you know, while they are having trouble
20 across the state line, let me tell you what
21 our observation network is providing and we
22 have this. You know, our sustainability
23 shows that we can, we can be here for you,
24 not only for today, but for the life of, of
25 your investment.

1 So I'm kind of trying to find the
2 non -- I mean, the users I get, and that's a
3 user, too, but just trying to look for
4 non-traditional ways.

5 MR. MILLER: Mr. Chairman.

6 If there are incentives that come
7 about at some point in the future, part of
8 tailoring the incentive plan could be driven
9 around the same data set. So that we know
10 what the issues are, you may -- the
11 legislature may come up with some concepts of
12 some incentives to switch people from ground
13 water to surface water and may tailor it
14 based on areas where the greatest needs are.
15 And, I mean, the data would be available for
16 a lot of good uses, even from a planning. In
17 fact, a lot of public planning perspective.

18 MR. ANGELLE: Yeah. The educators
19 and -- as well.

20 MR. SPICER: In fact, it's through
21 monitoring that we are able to change what
22 happened in southwest Louisiana with the
23 Chicot. You know, moving them off of ground
24 water to the surface water had a huge impact
25 on that aquifer back in the '80s. And

1 looking at the ground water data, so you can
2 see that spiked up as soon as, as soon as
3 industry is off those wells.

4 MR. ANGELLE: Yeah.

5 MR. KILLEBREW: These are all reasons
6 for proceeding to expand the monitoring
7 network, all good reasons.

8 The next question, I think we have
9 already touched on, Could DEQ enhance their
10 monitoring program with expansion of the
11 observation well network?

12 And I think that answer was yes.

13 Gary, can you shed some light on that,
14 please?

15 MR. SNELLGROVE: Yes, sir.

16 They would -- they could possibly
17 benefit as -- if there was a collaborative
18 effort for them to be, you know, for more
19 water quality to be collected as well as
20 water level data with the expansion.

21 MR. KILLEBREW: Anything else?

22 All right. Should expansion of the
23 observation well network be to the extent
24 that data derived from the network could be
25 as a vital statistic to issue a grade or a

1 sustainability rating to each aquifer system
2 from a multi-departmental perspective?

3 Secretary Angelle asked a question
4 similar to this a little bit earlier. I have
5 a question about it. How -- does anyone know
6 how or what parameters would be looked at in
7 terms of issuing or developing a
8 sustainability rating for an aquifer? I'm
9 sure this is being done in other instances
10 somewhere. Does anyone know, or --

11 MR. LOVELACE: Well, I'm just familiar
12 with what they do, you know, they have their
13 sustainability measurements in Arkansas, what
14 they determined -- that's how they determine
15 critical areas. They say that the aquifer is
16 not sustainable at the pumping -- at the
17 current rate of use if water levels have
18 fallen below the top of the formation, or if
19 water levels are falling at a rate of, I
20 think, greater than five feet per year over
21 at least a three-year period or something
22 like that.

23 I would also say, that to look at
24 that, you might want to look at water quality
25 also. If you have a water quality issue that

1 pumping is exacerbating, I would definitely
2 put that into the sustainable use formula.

3 MR. KILLEBREW: Yeah, the last part of
4 this is for a multi-departmental perspective.
5 So it would certainly bring in more people
6 that are interested in that.

7 MR. ANGELLE: So in Arkansas there's a
8 specific definition that's for
9 "sustainability" that's -- I think ours is
10 pretty broad in our statute. And theirs
11 defines a metric what happens to water over a
12 given period of time?

13 MR. LOVELACE: Yes. I don't
14 necessarily agree with their, their looking
15 at just at the water level falling below the
16 top of the aquifer. In my mind, it's when
17 the water level falls below -- starts falling
18 below pump settings, when you start affecting
19 a lot of people, to me that's, that's really
20 when you have a problem. It becomes an
21 economic impact and hardship.

22 People in the Chicot, for instance,
23 the aquifers 50 to a hundred feet down.
24 Domestic well owners typically, in a lot of
25 the irrigation wells, will pass that, you

1 have -- you may have six, 700 feet of
2 aquifer.

3 Anyway, your pump setting isn't
4 necessarily going down to the top of the
5 formation in a lot of cases. We have a lot
6 of feedback. The pump is going to be, you
7 know, a hundred, 200, 300 feet down. It's
8 when it becomes an economic issue to either
9 lift the water or water levels are falling
10 below pump settings on a lot of wells, I
11 think that's really what I look as more of a
12 sustainability issue. It's not that the
13 aquifer is going to run out of water. It's
14 that it's going to become too expensive to
15 either pump the water out or for, for the
16 average person to be able to pump the water
17 out.

18 MR. ANGELLE: So are you familiar with
19 the definition in any of our rules or statute
20 of "sustainability"?

21 MR. LOVELACE: No, I'm not.

22 MR. ANGELLE: Gary, do you have a copy
23 of that?

24 MR. LOEWER: That was my question,
25 too. We surely have a criteria by which we

1 determine some -- if an area is of critical
2 concern. Is that the term, something like
3 that? Critical area. We have some
4 benchmark. And, and --

5 MR. ANGELLE: Yeah.

6 MR. LOEWER: -- maybe we are going to
7 develop that to be broader that it's not just
8 involved in a drought, the closer we come
9 into it maybe.

10 MR. OWEN: The definition comes up in
11 the Evaluation section, doesn't it?

12 MR. ANGELLE: Do you have it, Gary?

13 MR. SNELLGROVE: It's in -- it's on --
14 it's in your handout. It's under Evaluation.
15 It's bullet Item 5.

16 MR. ANGELLE: Can you read it?

17 MR. SNELLGROVE: It's bullet Item 5.
18 It says, The current definition of
19 "sustainability" under ground water
20 management law is, "the development and use
21 of ground water in a manner that can be
22 maintained for the present and future time
23 without causing unacceptable environmental,
24 economic, social or health consequences."

25 MR. MCKINNEY: Mr. Chairman.

1 Ben McGee of the USGS in Ruston, in
2 the Ruston area, has said it numerous times.
3 We must have sustainability data. In other
4 words, you can't really do much of anything
5 else unless you have that. So whatever it
6 is, as I know Arkansas has four, three or
7 four different bullet points, but we
8 desperately need sustainability benchmarks.

9 MR. ANGELLE: Right.

10 MR. MCKINNEY: Other than generically
11 as he's read.

12 MR. ANGELLE: So your opinion is, is
13 that, is that the generic -- that may be a
14 goal. But you think to manage the resource,
15 there needs to be a water level? I'm trying
16 to understand the message that you would have
17 there.

18 MR. MCKINNEY: Well, I don't know the
19 exact bullet points that I would put to the
20 test. But I'm saying that each aquifer,
21 obviously, is going to have different
22 characteristics. So, therefore, whatever
23 would be appropriate for that aquifer level
24 or that stream or that lake or whatever it
25 is, it needs to be something that shows us

1 that you're not taking out more than is going
2 in or is in there already.

3 MR. ANGELLE: So for you,
4 sustainability is, is a mathematical equation
5 that the withdrawal is not more than the,
6 than the recharge?

7 MR. MCKINNEY: To an extent that you
8 have set whatever that elevation is. I have
9 no idea. But you're correct.

10 MR. ANGELLE: But, obviously,
11 adjusting for some seasonal --

12 MR. MCKINNEY: Exactly. Exactly.

13 MR. ANGELLE: -- situations measured
14 over time.

15 MR. MCKINNEY: Some trigger point,
16 sure.

17 MR. BURLAND: Mr. Chairman, I would
18 have to chime in and kind of complement our
19 current definition, because I think it brings
20 up things other than metrics that are
21 important. And that is, economic viability,
22 health issues, other -- mentioned some other
23 things with regard to an area or a locality
24 that I think come into play, not just, you
25 know, whether it's below the top of the

1 aquifer. You mentioned, yourself, the idea
2 of drawdown past where most of maybe the
3 domestic well users are -- where their pumps
4 are located, that sort of thing. So I think
5 we have got to keep it as flexible as
6 possible.

7 Obviously, if we set a definition in
8 metrics that we can't pump below the top of
9 the aquifer or, or we can't pump more than we
10 recharge, you know, you are going to shut
11 down industry tomorrow and other -- and maybe
12 even some public water suppliers. So, I
13 mean, that's -- you know, I think we have to
14 be careful how we set those parameters.

15 MR. ANGELLE: Well, yeah. I guess I
16 agree.

17 One of the concerns that I would have
18 would be in, in the drought conditions that
19 we had this past year, we, we probably would
20 have pumped below a certain level. And the
21 idea is that that's what we, we had to do.
22 And if sustainability is a hard and fast
23 line, then, then you are, for a moment in
24 time, would be negatively impacting the
25 entire user group, when history shows that we

1 do have those periods of drawdown but also
2 followed by periods of recharge.

3 So I agree. I think we need to find
4 some, something that -- I think Mr. Ted is
5 driving at something and I do believe -- I
6 think folks need to understand -- and I think
7 you put a -- you know, one of the things that
8 came out of one of our meetings in the Sparta
9 is that it was 17-million-gallon-per-day
10 deficit. Now, I don't know if that's a --
11 you know, that's a big number if you're
12 talking money. That may not be a big number
13 if we're talking water. Okay. And then I
14 think solutions are then driven around, okay,
15 well, what did the Graphics Packaging plan --
16 plant do, and, and, okay, that's a
17 10-million-gallon-per-day diversion. So that
18 means that we have a 7 million -- now we down
19 to 7 million.

20 It gives, I think, managers goals. So
21 it's probably a combination of some numbers
22 and some of that broad type of language.

23 MR. BURLAND: And I think it moves
24 across to surface water issues, too, because
25 in the Ouchita and the Sabine and creeks that

1 flow off of there during the drought, the
2 levels were so low, a lot of industries
3 couldn't discharge --

4 MR. ANGELLE: Wastewater.

5 MR. BURLAND: -- you know, with their
6 wastewater --

7 MR. ANGELLE: Right.

8 MR. BURLAND: -- into the streams.
9 And I think working with the Corp and having
10 the flexibility with the local governments
11 who, who happen to own or manage, you know,
12 surface water impoundments, were able to
13 release water and, and work together in a
14 cooperative environment, rather than look at
15 a metric and say, well, if the water falls
16 below this level, you know, we are turning
17 the faucet off. So --

18 MR. SPICER: There's --

19 MR. BURLAND: -- that's my comment.

20 MR. SPICER: -- there's other things
21 you can do rather than just turn the faucets
22 off, other management tools you could use.
23 And I think that if it falls below the top of
24 the aquifer, we shut it down. No, you take
25 conservation measures and, and implement

1 other measures to address that.

2 MR. LOEWER: So what we are saying is,
3 that right now we have a ruler that's just
4 tells you it's nothing on it. It's either
5 longer than the ruler or shorter than the
6 ruler. And we need something that has some
7 lines on it, some marks on it, and not just
8 for the sake of numbers, metric, but, but so
9 that, so that you can measure where, where
10 you're at and know what you have to do in the
11 time --

12 MR. SPICER: That's -- what you have
13 to do when you reach the threshold.

14 MR. BOLOURCHI: Is this on?

15 I want to mention that what they use
16 in Arkansas, it may be appropriate for that
17 area, for that aquifer, but it may not be
18 appropriate or usable in other aquifers, even
19 in Monroe area, for instance. The depth of
20 sand there is 150 or 200 feet in Arkansas.
21 It maybe seven, 800 feet in Louisiana, No. 1.

22 No. 2, in the past 30 years, all the
23 studies that we have done is related to water
24 use, how much we pump, how much is being
25 used. To my knowledge, we have never ever

1 done any sustainability studies.

2 And in my opinion, if you really want
3 to know, we have to know how much water we
4 have stored in each aquifer, and then how
5 much we pumping out, how much we get
6 recharge. In other words, determining the
7 budget for each aquifer. So much water,
8 rain, gets in, so much comes out, and so
9 much. This is in storage. Then it becomes
10 simple, very simple, to decide what's the
11 sustainability.

12 Sustainability based on the water drop
13 below the sand is not valid, basically. May
14 be valid in Arkansas. That may be just a
15 policy, may be a policy, but that's not based
16 on science.

17 So where we need to go, in my opinion,
18 the next studies that we going to be doing
19 should be sustainability for each aquifer.
20 Every aquifer is different. Thank you.

21 MR. MAYS: Just one point to the
22 sustainability part and I --

23 MR. BURLAND: To sustain.

24 MR. MAYS: -- I will address this to
25 someone that knows a lot more than I do. But

1 if you continue to pump more than it can
2 sustain, and, and it cannot recharge ever
3 back up to the point that it ever was. So
4 that has to be part of a definition, too.
5 It's not like surface water. These guys can
6 point that out. Just like a dried up sponge.
7 It will not absorb as much water next time.
8 So you get to those levels like that, and you
9 get past the point of being able to correct
10 it through conservation or whatever effort is
11 out there.

12 MR. BOLOURCHI: That's given. That's,
13 obviously, true to consider, that's right.

14 MR. KILLEBREW: Anymore comments on
15 that particular issue?

16 Okay. The next question is, Should we
17 require public supply, irrigation, industrial
18 and other non-domestic well owners with wells
19 above a certain size or withdrawal capacity
20 to report production to the state?

21 And I might ask also, is there any
22 intent to require this type of reporting in
23 impacted aquifer areas?

24 Gary, can you shed a little light on
25 that, please?

1 MR. SNELLGROVE: Currently, as far as
2 DNR's jurisdiction, the only reporting for
3 production that's required is for the areas
4 of ground water concern in the Sparta
5 aquifer. Outside of that, there are no
6 requirements for water production to our
7 agency. Only if we, by order, require it on
8 a case-by-case basis as we are evaluating,
9 say, a proposed installation, a new well
10 installation.

11 MR. KILLEBREW: Should this be part of
12 the management plan, this type of reporting?

13 MR. OWEN: Well, I might add, Mr.
14 Killebrew, that that type of reporting is
15 already the norm in the Capital Area Ground
16 Water Conservation area.

17 MR. KILLEBREW: Okay. Any further --

18 MR. FREY: I have got --

19 MR. KILLEBREW: -- discussion?

20 MR. FREY: -- a question for Gary, in
21 particular.

22 Gary, and I think we discussed this at
23 a previous Commission meeting, but I was
24 unaware that there were actually public water
25 suppliers that didn't have meters on their,

1 on their individual wells -- not wells, but
2 on their individual locations. I talked with
3 Gene about that. But do you have any idea
4 how many suppliers, public water suppliers,
5 are out there are strictly operating on a
6 flat rate versus metered conditions at all
7 the various residences and other users?

8 MR. SNELLGROVE: I don't have any
9 information on that particular topic. It's
10 my understanding that it's an OPH
11 requirement, DHH/OPH requirement, that meters
12 be placed on public supply wells when
13 installed. But there's no requirement for
14 them to do anything with the meter as far as
15 providing production data into the agency.

16 MR. FREY: But, you know, it just
17 appears to me that if somebody is playing --
18 excuse me, paying a flat rate, they are not
19 going to be involved much with conservation
20 measures or could care less if they are
21 paying a flat rate, versus if they, you know,
22 if they paid based on their usage. If they
23 are paying based on their usage, it's going
24 to -- you have a different mindset. And I
25 think that needs to be addressed, you know,

1 before we get into other issues like, like
2 flow meters on irrigation wells, for
3 instance.

4 MR. KILLEBREW: You had a comment,
5 sir?

6 MR. LOVELACE: Yes, sir. I was going
7 to say we do have what we call our water use
8 program where we estimate water use in
9 Louisiana on a five-year basis. And that,
10 that data is very heavily used for management
11 purposes. It's for knowing how much is being
12 taken out is vital, really, to managing the
13 resource and data. You have to have that
14 data if you are going to go into
15 sustainability issues, which I'm sure we'll
16 be getting into ground water modeling. Right
17 now that's where we are getting the data
18 every five years.

19 DOTD and, I think, DNR now have had
20 the power to collect, to collect that data,
21 and it's been coming to us. We put it
22 together. It's very important data to have.

23 MR. SNELLGROVE: I will add to that.
24 What John is referring to is a statutory law
25 that's pretty broadly written that, that

1 essentially gave formerly DOTD under their
2 authority, now under DNR, to, to require well
3 owners to provide various types of
4 information to the agency as it's deemed
5 necessary. And production data was one of
6 the items that, that's listed specifically as
7 I remember in the actual statutory language,
8 along with, perhaps, water levels and other
9 conditions as it's deemed necessary.

10 We haven't -- Conservation hasn't
11 exercised that authority at this time. It is
12 certainly something that, that we could
13 consider to do, but we just haven't done that
14 at this time.

15 MR. ANGELLE: Do you know the -- I'm
16 sorry. Go ahead.

17 MR. SPICER: Does it state how that
18 data is to be collected or how you measure
19 that? That's the key.

20 MR. SNELLGROVE: The law doesn't
21 provide for how to go about obtaining it. It
22 just states that, if needed, the agency can,
23 can seek and require the well owners to
24 provide it.

25 And that is a good point. I mean, we

1 had discussions in the past about flow
2 metering or flow meters versus calculations
3 or pump rates or finding other ways to
4 determine production. And, and we certainly
5 are open to, to the most efficient and
6 effective way to get the information. If a
7 meter is not that or it's cost prohibitive or
8 it's an issue with maintenance, then we
9 certainly are open to other ways of getting
10 that data that are more objective than, say,
11 more broadbased calculations in general, but
12 more site specific/user specific as we can
13 get.

14 MR. SPICER: User specific with, with
15 irrigation, as an example, rice. It's pretty
16 easy to get a pretty darned good calculation
17 of how much is used in a season per acre.
18 And that's pretty reliable information you
19 can gather there.

20 MR. BURLAND: Gary, in the areas of
21 ground water concern, what are the additional
22 reporting requirements that are now required
23 by the Office of Conservation? Is it just
24 large volume well users?

25 MR. SNELLGROVE: No, sir. It's any

1 well owner other than domestic.

2 MR. BURLAND: Okay.

3 MR. SNELLGROVE: So regardless of size
4 or, or other purpose, they are required on a
5 monthly basis to provide production data, if
6 they are within those established areas of
7 ground water concern.

8 MR. BURLAND: You mean pumpage rates,
9 or what data specifically?

10 MR. SNELLGROVE: I think they are
11 provided in total volume per month.

12 MR. BURLAND: Okay.

13 MR. SNELLGROVE: It's a form that they
14 complete, and they certify and send it in,
15 you know, trailing month. I think they've
16 got two months to submit from a particular
17 month.

18 MR. ANGELLE: So my comment is that
19 sustainability is achieved through management
20 and regulation that is necessary, and only
21 necessary, to, to achieve sustainability.
22 And that may, that may be not worded exactly
23 right. But there should not be more
24 regulation than that which is necessary to
25 achieve sustainability. So I think it does

1 make sense that in an area of ground water
2 concern, you say I need more information.
3 Okay.

4 In the areas where, where the
5 monitoring wells and, and the data shows that
6 sustainability is not in question, then I
7 think it's -- it would be poor public policy
8 to tell people we want detail on this
9 information because information is useless to
10 us anyway, other than to fill out some report
11 that goes on a shelf that -- so estimates
12 seem to work for me.

13 But I think that, again, you know,
14 when, when, again, using the patient, when we
15 present and we have, you know, issues of
16 health, we tend to run a more battery, a
17 bigger battery of tests or wider battery of
18 tests in that area which, you know -- but we
19 don't run the same test on everybody all the
20 time. And I think that's a good analogy.

21 MR. LOEWER: Mr. Chairman.

22 In our conversations on this issue
23 after some of the reporting has gone out,
24 this has probably been the most passionate,
25 whether it should be earth wells or not,

1 particularly in rice irrigation, that the
2 Chicot is very involved in. And we, as a
3 member in the farming community, we have a
4 saying that says, if you can't measure it,
5 you can't manage it.

6 But this isn't about whether you
7 should measure it or not, it's how you should
8 measure it. I think we all think that
9 understanding how much we use is very
10 important. It's, it's different -- even in
11 accounting, there's a different way of
12 measuring, you know, a full auditing or a
13 review. There's different ways of arriving
14 at numbers that are, that are efficient that
15 are cost benefit.

16 MR. ANGELLE: And USGS puts out the
17 report every five years that does group it,
18 and that seems to be a good enough number, if
19 you allow me to use that phrase, for purposes
20 of guaranteeing sustainability except in
21 those areas where ground water concern has,
22 has. So, yeah, having information to the
23 level that you need it to manage, I think we
24 are saying the same thing.

25 MR. LOEWER: You need more X-rays when

1 you have a tumor than when you don't.

2 MR. ANGELLE: Exactly.

3 And just to speak to the whole
4 metering thing, because, for whatever reason,
5 as presentations were made across the state,
6 it's difficult to have these kind of
7 questions posed to the public without the
8 public reacting in the way, in this
9 particular case, the way the agricultural
10 community reacted. To me, the great thing
11 about asking the question and, and seems like
12 where we are going to, is that we can report
13 to the legislature that we have asked that
14 question. We went out, we got public debate,
15 and we believe that it is not necessary to do
16 it when we have answered that question. So
17 some questions have to be, to be asked.

18 MR. LOEWER: Absolutely.

19 MR. ANGELLE: They tend to, they tend
20 to, you know -- we all have stakeholder
21 groups and they tend to react to why you even
22 asking that question. Well, sustainability
23 means that we need to know.

24 And so I appreciate you bringing that
25 up. I wanted to clear the air on that. I

1 got a few letters that I'm not so sure my mom
2 wasn't one of them.

3 MR. SPICER: Me, too.

4 MR. ANGELLE: Did you draft them? Did
5 you draft them? Told them where to put them.

6 MR. KILLEBREW: Comment.

7 MR. COLVIN: Yes. I think when you
8 talking about actually monitoring the wells
9 in a sense, as far as metering, you know,
10 definitely I think you need -- all this goes
11 hand in hand. You could start at the top of
12 this page and go to the bottom of this page.
13 And the agenda here is, you know, do we need
14 monitoring? And I think we all agree we do.
15 I think it's the basis for everything else
16 that we do.

17 MR. ANGELLE: That's what I say.

18 MR. COLVIN: If you don't have a
19 monitoring program, the depth of that
20 monitoring should be, according to the amount
21 of how critical that situation is. Well,
22 it's obvious in the state, we know the
23 situation, for the most part, which aquifers
24 are the worst. So naturally the resources,
25 the, I guess, the focus should start there

1 and work outward. We almost need a tier
2 result as far as like a Christmas tree. You
3 know, if you have an aquifer and it is, it is
4 sustainable through well monitoring, through
5 observation well monitoring, it is
6 sustainable, and it is sustaining itself,
7 even though you have fluctuations throughout
8 the year, don't focus resources on that. If
9 for some reason it does become a situation
10 through that monitoring, you know, that you
11 do over, you know, whether it's once, twice,
12 four times a year, you know, if you
13 accumulate that data over two or three years
14 and it does show that there's some needs
15 there, implement, you know, education, some
16 like -- you know, try to address that
17 situation in a like way.

18 Naturally, that would be a lot
19 different if it's just like in the Sparta. I
20 mean, you have got a serious issue. You need
21 a lot more regulation, a lot more
22 implementation of, you know, not only
23 monitoring, but, you know, education,
24 managing, and everybody is involved in that
25 needs to be more involved in that.

1 So I think it all comes down to, you
2 know, the whole discussion about monitoring
3 is, it's the basis for start, for starting a
4 process, and it's also the basis for keeping
5 the process where it needs to be, in a sense.

6 MR. BURLAND: And, Mr. Chairman, if I
7 could follow up on your comments, and yours
8 as well, that it also needs to be
9 economically tied or matched with our
10 response to what is it this Commission wants
11 to do. For instance, you know, designating
12 areas of ground water concern is one thing,
13 but then managing, implementing policy, and
14 then assessing the results after a year or
15 two of close management, you know, would at
16 that time be a time when restrictions could
17 be lifted. I'm not saying that monthly
18 reporting is burdensome on a business, but
19 you have to look at the economic impact.
20 Somebody has to be paid to prepare a report
21 to put on that shelf. And if it turns out
22 that after several years or after several
23 months of close monitoring, that maybe a
24 three-month or a six-month report is --
25 because, obviously, how quickly can we deal

1 with a critical -- with an area of concern or
2 critical area if tomorrow something was
3 discovered in an aquifer? You know, and I
4 don't think that, you know, do we then go to
5 daily monitoring of, you know, of certain
6 well users. So I think we also have to be
7 consistent when we plan out how we monitor,
8 make sure we have a technology and a system
9 that's not overly burdensome or inappropriate
10 to the responses that we can naturally effect
11 on that aquifer. That's just my thought.

12 MR. KILLEBREW: Any further comments?

13 The next question, I think we have
14 already addressed it in the previous comments
15 to a great extent. So I, if no one has an
16 objection, I think we will just move past
17 that and go on to the next one. Except for
18 the fact I just wanted to, point of
19 clarification for my own thinking, the
20 gentleman from geological survey said that
21 ground water production is measured through
22 more or less an indirect method of water use
23 as opposed to, to the monitor metering. Is
24 there a connection there or did I
25 misunderstand that?

1 MR. LOVELACE: In some cases. We
2 directly contact public suppliers,
3 industries, large commercial establishments,
4 power generation. By and large a lot of
5 those have at least a master meter or some
6 way to estimate their, their pumpage. For
7 large groups, domestic well owners,
8 irrigators, agricultural folks, we estimate
9 that pumpage based on various, various other
10 information such as crop acreage, number of
11 people on domestic wells, all based on census
12 data.

13 MR. KILLEBREW: All right. Thank you,
14 sir.

15 Let's go ahead to the next one, then.
16 Should ground water production reporting be
17 limited to certain areas within aquifers
18 and/or certain aquifers, or should ground
19 water production reporting be applied
20 statewide?

21 Gary, do you have any?

22 MR. SNELLGROVE: Yeah. I think we
23 kind of hit on that one pretty well. I think
24 the consensus that I got out of it was that
25 it shouldn't be statewide unless, you know,

1 it should only be aquifer-by-aquifer as it's
2 warranted based on what our monitoring
3 network is showing where the areas are, are
4 required or need to be.

5 MR. KILLEBREW: Okay. More comments
6 on that?

7 MR. ANGELLE: I totally agree.

8 MR. KILLEBREW: Okay. Should the
9 state rank (prioritize) aquifers on their
10 sustainability so we can apply resources to
11 the most troubled?

12 I think we have also talked or spoken
13 to that particular question. And there seems
14 to be some consensus that that's probably
15 something we ought to do.

16 Any other comments on that?

17 The next question, Should Louisiana
18 considering improving surface water quantity
19 measurements in areas where surface water is
20 likely to be a supplement or alternative
21 resource to address ground water
22 sustainability issues?

23 MR. ANGELLE: That should be quality.
24 That should be water quality measurements.

25 MR. KILLEBREW: Yeah.

1 MR. ANGELLE: So I recall this being
2 discussed in a way that if our management
3 leads us to recommend that surface water be
4 used as a solution to deficit ground water
5 problems or ground water sustainability
6 problems, we would certainly want to make
7 sure that the surface water that is being
8 targeted for the solution has a water quality
9 that makes sense. So as you understand
10 what's in the bull pen to come out onto the
11 mound to help, you need to make sure that,
12 again, by analogy, the pitcher's arm is in
13 good enough shape to come onto the field.

14 And so I think the answer is yes, we
15 should consider whether it's improving --
16 probably the better word is "expanding" --
17 our surface water quality measurements in
18 areas where we feel like surface water may be
19 the solution for ground water sustainability
20 problems.

21 MR. BALKUM: Mr. Chairman.

22 I would say that it needs to be
23 quantity against quality. You know, I have
24 the privilege of working with your staff on
25 cooperative endeavor agreements. And because

1 of the drought, we do know that some of those
2 agreements have virtually dried up. Wildlife
3 & Fisheries, we're obviously concerned about
4 fisheries habitat. We understand the need to
5 reduce pumping in our aquifers, but we also
6 want to see that our wildlife and fisheries
7 resources are provided for.

8 So we do recognize that sometimes we
9 don't have the water level data to make good
10 decisions. What we hear from staff, I think
11 we are doing a pretty good job. We are doing
12 the best we can.

13 MR. ANGELLE: So quantity and quality?

14 MR. BALKUM: Yes, sir.

15 MR. KILLEBREW: So essentially what
16 you're saying if the surface water is used in
17 lieu of ground water, we need to know if it
18 can sustain the ecosystem and not have
19 adverse effects to it?

20 MR. BALKUM: Correct.

21 MR. KILLEBREW: And I think we just
22 spoke to both those issues here.

23 Let's move on to the next one. Excuse
24 me.

25 MR. MILLER: If I might make another

1 comment.

2 MR. KILLEBREW: Yes, sir.

3 MR. MILLER: Yesterday at the Coastal
4 Protection and Restoration Authority meeting,
5 it was extensive discussion about use of
6 Sabine River water. Part of it centered on
7 the fact that it was beneficial in using the
8 surface water to replace the ground water,
9 but there was also an extensive amount of
10 discussion about trying to balance use of
11 water in coastal restoration activities
12 because there's a need for water nutrient
13 there as well, and that any management plan,
14 including our water, our water management
15 plan, needed to take into account those
16 coastal issues as well. So it's important
17 that as we look at, at what we are going to
18 do with the water resources in the state,
19 including the surface water, we need to also
20 be looking at how that impacts the coastal.

21 MR. SPICER: It's not limited to, to
22 coastal resources. The impact of freshwater
23 moving into the coast also impacts
24 agriculture. Because flushing salt out,
25 moving the salt out, keeping the salt away

1 from coming back in, agriculture has become
2 saltwater for irrigation. And that's, that's
3 not acceptable. So it's, it's really
4 difficult to try to separate these water
5 sources. Doesn't work every time you try to
6 do it.

7 They are all connected and the uses
8 are connected. Until we get to the point in
9 this state where we can see that as one
10 package, it's going to be difficult to
11 manage.

12 MR. BOLOURCHI: Mr. Chairman, just for
13 everyone's information, we discussed about
14 monitoring the station of ground water this
15 morning. Just for everyone's information,
16 our present surface water network with USGS,
17 has 184, 184 monitoring stations. Now, they
18 are not all discharge measurements. Only 33
19 discharge measurements. The rest of them are
20 related with the stage and flood profile.
21 Also, we have 36 water quality stations.

22 And in regard to ground water, there's
23 information that, perhaps, is good news, that
24 presently we have 45 water quality
25 measurement stations. That's more than 1984.

1 So that's good news. That show you that
2 there's been a lot of talk on the monitoring
3 well or water quality monitoring.

4 MR. ANGELLE: So quality has, water
5 quality, has been more the emphasis as
6 perhaps quantity has, again, not been as big
7 of a concern.

8 MR. BOLOURCHI: Right. The size of
9 the network is directly related to the
10 availability of funds. If the funds is not
11 sufficient, then you spread your stations to
12 cover everybody.

13 MR. KILLEBREW: Any further comments?
14 We're getting a little bit short on
15 time, so I would suggest we --

16 MR. ANGELLE: You are fine. I think
17 we can do it.

18 MR. KILLEBREW: Okay. Thank you.
19 There was a reference to modeling
20 earlier, and then this question addresses
21 that. It is, Should the state further
22 investigate the necessity, timing and
23 resource commitment for developing,
24 implementing and maintaining ground water
25 availability modeling?

1 Of course, as we all know, modeling is
2 a very expensive enterprise. We have looked
3 at how this has been handled by other states.
4 And I think Texas, I have been told, has a
5 very good monitoring program. Certainly,
6 Texas has a vested interest in, in addressing
7 it's ground water supply issues because its
8 surface water supply is questionable.

9 I think Jeff has some information he
10 might want to share with us.

11 MR. JONES: Right.

12 MR. KILLEBREW: Thank you.

13 MR. JONES: Actually, as you said, in
14 Texas what really started it off was a severe
15 drought in 1954-56. And as a result, in 1957
16 the Texas Water Development Board was created
17 and -- by an act of legislature. From that
18 point on, Texas, as you very correctly
19 stated, Texas without, without a Mississippi
20 River, without anything associated with a
21 river such as the tremendous alluvial aquifer
22 system, Mississippi River Alluvial associated
23 with it, Texas, again, my understanding is,
24 there aren't any lakes in Texas. There are
25 reservoirs. So Texas had to do something.

1 They were in, in a very severe situation and,
2 you know, they are in a severe situation
3 right now as well.

4 So they have, through their Texas
5 Water Development Board, have really put
6 together a tremendous program where all nine
7 major aquifers and all 13 minor aquifers
8 throughout the state have models, ground
9 water availability models. And, again, we
10 are looking at regions, ground water
11 management regions, that they have developed,
12 that are also on a county-by-county basis as
13 well. And they also have water districts
14 established throughout the state.

15 I think the main thing is that Texas
16 has done that, they had to, and, again, they
17 have consultants. But mostly, as, as we
18 talked with John Lovelace of USGS, that's
19 what USGS does. And that's what they did for
20 Texas.

21 That's also what they have done for
22 our neighbor to the north in Arkansas, is
23 they have actually put together -- what it is
24 is, it's the assessment, the ground water
25 availability of the aquifer systems within

1 the Mississippi embayment. That's primarily
2 the Mississippi River alluvial aquifer
3 system, which, to, to just give you an idea,
4 John and I were talking earlier, they have
5 actually got problems. They have withdrawn
6 so much with regard to their irrigation there
7 and usage of the MRVA.

8 In this state right now, everybody
9 says go to the MRVA. There's no possibility.
10 It's recharged constantly by the river. But
11 there, in portions, you know, they do have --
12 they have got problems with, with depressed
13 water level and declines.

14 But what, what the ground water
15 availability models have done, also I will
16 say this, for north Louisiana, this is a 2011
17 document that has just come out. It's part
18 of USGS's regional planning ground water
19 availability studies. They have a number of
20 others that are in progress, but the
21 Mississippi embayment is complete. The other
22 one that is complete is the -- it's actually
23 the one that was put together for -- it's
24 the, it's the Floridian aquifer in, of
25 course, in Florida, Alabama, but also in

1 Mississippi as well. So Mississippi is
2 covered really by two -- has two of the
3 ground water availability models. And
4 Arkansas has got, has got the one that's also
5 associated with Louisiana.

6 So Louisiana, Louisiana, what we are
7 doing, is we are -- actually, we have a
8 portion of the MRVA, the Mississippi River
9 alluvial, and we have also got -- they call
10 it the middle Claiborne aquifer. That's the
11 Sparta. Effectively, it's the Sparta and,
12 and a few other minor aquifers within the,
13 within the middle, the middle Claiborne
14 system.

15 I will say this: Again, I see, I see
16 us continuing to, to work with USGS, but I
17 see USGS now putting together a model for the
18 Southern Hills aquifer system that's here in
19 the Baton Rouge area. We have been doing
20 this project, project-by-project,
21 need-by-need. And, again, work has also been
22 done on the Chicot aquifer system, this
23 ground water availability modeling. But,
24 again, it's the stressed aquifers that we
25 were talking about before.

1 MR. KILLEBREW: All right. How, how,
2 how do we fund that type of an effort? For
3 example, Arkansas/Louisiana model you
4 referred to, is that a cost-shared?

5 MR. JONES: I'm not, I'm not sure
6 about that. I can definitely look into it.

7 I do know that the Texas Water Board,
8 they have had, they have had a trust fund
9 established from an early, as I said, 1957.
10 They are looking at 2.3 billion that are in
11 that fund at this point.

12 Again, there are various ways of going
13 about this type of funding. But, again, with
14 regard to the embayment study and the
15 Floridian aquifer study, I'm not sure where
16 all the funds came from for those, but I
17 definitely will, will look into it.

18 MR. KILLEBREW: Thank you, Jeff.

19 MR. FREY: I had a question about the
20 model. Can I assume that that model takes
21 into account the recharge area, the acreage
22 within it, the land use, land types within
23 that area?

24 MR. JONES: Yes. Yes, it does.

25 MR. FREY: Okay.

1 MR. ANGELLE: I know, Mr. Mickey, you
2 had a question earlier about modeling. I
3 don't know if this discussion addressed your
4 concern.

5 MR. MAYS: No. I think it's very
6 important. I guess, maybe, the USGS will
7 come up and tell us what they need to do for
8 a proper model. I think they are, according
9 to Ben, that we have a pretty good model of
10 the Sparta up there. It may be as good as
11 any in the state.

12 Would you agree or disagree with that?

13 MR. LOVELACE: (Nodding head.)

14 MR. MAYS: And we have had the Police
15 Jury, we have participated as far as
16 southwest Arkansas goes, some of their funds
17 came, and they basically established a water
18 district and had some revenue to do some
19 things with and to match and have some
20 matching money. So I don't know if that's
21 answering any of the questions or not on that
22 part.

23 MR. ANGELLE: So the model that's --
24 can you, can you speak to the, to the Sparta
25 model that you're aware of. Obviously, you

1 said the Lincoln Parish Police Jury put up
2 some resources.

3 MR. MAYS: Well, there was a whole
4 combination. We had some federal grant money
5 that we went after, the local money went
6 after, and USGS, and I'm not sure if, like,
7 just recently we asked for some money to go
8 to Arkansas for some monitoring wells. And,
9 obviously, those monitoring wells are part of
10 the model.

11 MR. ANGELLE: Who owns the model? Is
12 that --

13 MR. LOVELACE: The USGS has the model.
14 So it's available to the public.

15 MR. ANGELLE: Right.

16 MR. LOVELACE: We --

17 MR. ANGELLE: I'm sorry. Any idea
18 what the average model in the average
19 situation costs? Your head is shaking no.
20 No way? I mean, just, I mean --

21 MR. SNELLGROVE: How about the example
22 from the USGS model you are developing for
23 the Capital Area?

24 MR. LOVELACE: That's running about
25 \$700,000.

1 MR. ANGELLE: That's to design the
2 model?

3 MR. LOVELACE: For the Southern Hills,
4 yes, sir.

5 MR. ANGELLE: To design?

6 MR. LOVELACE: Yes.

7 MR. SNELLGROVE: And how extensive is
8 the reach on that model?

9 MR. LOVELACE: It extends up into
10 Mississippi across southeast -- basically it
11 covers southeast Louisiana down to and just
12 beyond the Baton Rouge fault. Trying to
13 capture all the freshwater zone north of the
14 fault. Also take into consideration the
15 saltwater south of the fault.

16 It is a solute transport model, it's
17 not just a flow model, which adds a whole new
18 dimension to it. It's a very complex as
19 model goes. It's as complex as models go.

20 MR. ANGELLE: Right.

21 MR. LOVELACE: Has many layers in it.

22 MR. MCKINNEY: I know Ben McGee has
23 told the Sparta Commission that the model
24 developed for the Arkansas group would not be
25 suitable for the Sparta in north central

1 Louisiana because of the clays and the sands
2 and a number of other things. So they are
3 designed specifically for the region, as I
4 understand it.

5 MR. ANGELLE: Right.

6 So I would give a big old resounding
7 yes to question No. 2 on the screen, which,
8 which is you definitely need to determine
9 cost, timing, those kind of things, because I
10 believe we are going to be held to, to having
11 that kind of information by, by others who
12 ask us of that. And, again --

13 MR. OWEN: That's -- Mr. Moderator --
14 though, I think it's important to distinguish
15 in the development of the solute transport
16 model, that that model, itself, is being
17 built on the back of 25 or 30 years of data
18 gathering in this area. So the \$700,000 is
19 just a tip of the iceberg for what has been
20 invested in that, in that overall compilation
21 data over the years.

22 MR. ANGELLE: Good point.

23 So I think that, certainly, the reason
24 that we put Monitoring as our first item for
25 discussion, everybody would agree that it's a

1 robust monitoring investment that leads to
2 these other opportunities, and, certainly, in
3 the Capital Area, they have been monitoring,
4 perhaps, before it was cool.

5 MR. LOVELACE: We are using pumpage
6 and water level data since about 1940.

7 MR. ANGELLE: 1940.

8 How old are you?

9 MR. SPICER: Which makes it that much
10 more reliable model.

11 MR. LOVELACE: What's that?

12 MR. SPICER: I said it's much more
13 reliable model with that kind of data.

14 MR. ANGELLE: How old were you,
15 Mr. Brad, in 1940?

16 MR. SPICER: I'm as old as soils,
17 so...

18 MR. MAYS: Scott, I just want to ask,
19 when they prepare or are trying to work on or
20 fund for a model, and, I guess, as you go
21 from Sparta to Sparta, whichever one mark is
22 in the worst condition to prioritize that,
23 is -- what, what does the USGS need to get a
24 good model?

25 And I will go back to James' point

1 there, that I was wondering how could you
2 have good model with just monitoring if you
3 don't have some data on pumpage? I don't
4 understand that. There seems to be a
5 disconnect to me. So I would like to, to
6 hear your comment on that.

7 MR. LOVELACE: You really need good
8 pumpage data. It's pretty vital to the
9 model.

10 The way modeling technology has gotten
11 these days, you can estimate anything.
12 There's routines, computers will grind
13 through this and estimate it for you. But
14 the more parameters you have to estimate, the
15 less reliable your model will be. So pumpage
16 is something that's kind of obtainable, and,
17 and pumpage and the water level data
18 especially.

19 MR. ANGELLE: You would agree that
20 modeling is not necessary in areas where
21 monitoring shows no sustainability issues?

22 MR. LOVELACE: Yeah, I could, I could
23 say that. If you are not -- if there's no
24 big concerns, why do the model?

25 MR. ANGELLE: Okay. Got you.

1 So I think I'm trying to get to a
2 point where if an area of ground water
3 concern and sustainability of Sparta is
4 ranked as questionable, whatever is the right
5 word, that pumpage data may be more necessary
6 in that area to, to have a more reliable
7 model?

8 MR. MAYS: I agree.

9 MR. BALKUM: Mr. Chairman, I would
10 just like to say, let's not reinvent the
11 wheel.

12 You-all may recall LSU presented a
13 Chicot model to us a couple -- several months
14 back, couple years back. An impressive model
15 to me. Of course, I'm not an expert. But if
16 that is deemed important, let's not create
17 our own Chicot model.

18 MR. ANGELLE: Right. Sure. Sure.

19 MR. KILLEBREW: Okay. More comments
20 about modeling?

21 MR. ANGELLE: That would probably be a
22 collaboration issue where we would be
23 reaching out to academics. I know I saw
24 academics somewhere on here. All right.

25 MR. KILLEBREW: Okay. The next

1 question, Should capital outlay and fiscal
2 policy be tied to compliance with production
3 metering or quantification and reporting for
4 public supply well owners and other well
5 owners seeking state funds?

6 I must confess, I don't know the
7 background for this particular question. So
8 I have to rely on someone else to --

9 MR. ANGELLE: I will address it.

10 MR. KILLEBREW: Thank you.

11 MR. ANGELLE: So if, for instance, the
12 policy of the state were to become, say, for
13 public supply, public suppliers, that the
14 policy is you shall have a master meter and
15 you shall report to us. I doubt if there's
16 going to be, you know, civil penalties, if
17 they don't. I don't think that's what we are
18 talking about using a stick.

19 The question would be that if you are
20 in non-compliance with that, but, yet, you
21 are now applying for capital outlay monies to
22 improve your plant, your well, your treatment
23 system, whatever, and you, you haven't
24 checked the box that you have been in
25 compliance with this policy, then you would,

1 by matter of public policy, not be eligible
2 to, to receive these kind of funds. Again,
3 using the, perhaps, a carrot. One might say
4 that's a stick, but...

5 MR. BURLAND: That's what I was
6 fixing.

7 MR. ANGELLE: Yeah, yeah. Well, yeah,
8 yeah, but you always say --

9 MR. BURLAND: That's why I'm here.

10 MR. ANGELLE: Right. No, I
11 understand.

12 MR. BURLAND: And let me say, you
13 know, the reverse of that is, from the
14 public -- from the private sector view, is
15 that, gee, wouldn't it be great to be able to
16 use state capital outlay and financial
17 incentives from the state or other entities
18 to purchase or subsidize the cost of that
19 compliance by purchasing the meter. I mean,
20 I think PSC or Entergy or someone has a
21 program about residential metering of
22 electricity and how -- I think there's some
23 subsidy program being worked up, if it isn't
24 in effect already. And I think, you know, we
25 could look at something like that to assist

1 these well owners to, to, you know, to reach
2 compliance.

3 MR. ANGELLE: Well, you know, and I'm
4 happy to have the discussion. I think what
5 I'm saying is, that, you know, by analogy, we
6 have a, a Coastal Master Plan, and there's
7 been an executive order signed by the
8 Governor that says every state agency must
9 comply with the Coastal Master Plan. And I
10 will give you the for example.

11 Prior to that kind of coordinated
12 efforts, not because it was anybody's fault,
13 DOTD -- and I think I have my facts right --
14 DOTD needed to build a bridge over Highway
15 1 -- I mean, over Bayou LaFourche on Highway
16 1. They went forward doing that. And in
17 another room in another building, another
18 state agency, DNR, was planning a diversion
19 off of Bayou LaFourche or doing some work on
20 Bayou LaFourche. And the bridge that we
21 spent taxpayer dollars on end up, ended up
22 being a problem to accommodate the Coastal
23 plan.

24 So as a matter of operation now, when
25 you want to do those things, even though you

1 don't need a coastal use permit, say, in this
2 example, DOTD would check the box and say,
3 you know, does this in any way over the next
4 25, 50 years kind of compromise, you know,
5 what it is what you are trying to do.

6 And I'm simply saying that I think
7 there needs to be some discussion. I mean,
8 this clearly is, is an idea for the
9 legislature to decide. You know, I
10 understand my limitations and where I'm at on
11 the food chain, and the food chain should not
12 be about us adopting something that says
13 nobody gets capital outlay money unless they
14 put a master meter on, on their public well
15 supply.

16 But I think, again, the legislature
17 wants us to ask the provocative questions to
18 help guide that, and that's what this is.

19 MR. BURLAND: Well, and I don't
20 disagree that there shouldn't be some level
21 of, of compliance or minimum standards for
22 people to apply for those kind of funds and
23 check those boxes. I'm not arguing against
24 that. I was just kind of expanding it into
25 more of an incentive to get it done rather

1 than a disincentive.

2 MR. ANGELLE: Right. And I was
3 probably more talking about public supply as
4 opposed to just private operators. And maybe
5 it would be reversed in, in or added saying
6 that the first of your capital outlay monies
7 that you would be eligible for should be used
8 to pay and install the master meter. And
9 once you got that, then you're in compliance.
10 That we are not going to give you any more
11 money until we give you some money for this
12 purpose and then you move forward.

13 You know, I know Chairman Fannin has
14 spoke to me a number of times where he's
15 getting requests to do water -- community
16 water enrichment programs when he has
17 knowledge of a particular system that the
18 billing versus the production is not matching
19 up. And I realize there's some, some
20 percentage for unaccounted use, but that's,
21 to me, a function of a major leak somewhere
22 along the line. And if it's cheaper to, to
23 not worry about the leaks than to spend money
24 on it, because they are not responsible for
25 managing the resource, you know, I get that.

1 I mean, it's not good long-term management,
2 but it gets you out of a bind for the next,
3 you know, budget. And, and, I guess, trying,
4 trying to establish that, that, you know, if
5 it takes us 10 years to get to a point where
6 every -- we are going to pay, for instance,
7 out of a community enrichment fund, community
8 water enrichment fund, our focus is going to
9 be master meters. That, to me, is management
10 of our fiscal policy being consistent with
11 our, with our, hopefully, our master plan
12 here. I know we are saying something.

13 MR. KILLEBREW: Any other comments?

14 MR. MILLER: Mr. Chairman, one of the
15 things that DEQ has done is, actually, looked
16 at, you know, classically we have dealt with
17 the wastewater side of things. But we have,
18 actually, looked back at the metering aspects
19 of systems, so that if you minimize the
20 amount of water that's coming in for
21 treatment, you are actually winning on both
22 ends.

23 MR. ANGELLE: Right.

24 MR. MILLER: The limited capacity of
25 treatment system is, is improved because you

1 are not treating water that you shouldn't be
2 dealing with in the first place. It's also
3 beneficial to the ground water system that
4 you are not wasting any water. So we have,
5 actually, been in some projects, we have
6 actually incentivized folks to actually do
7 metering, improve their metering, as part of
8 water type project.

9 MR. ANGELLE: Mr. Incentive likes to
10 hear that.

11 MR. MILLER: They are hand in hand
12 because the two issues are connected.

13 MR. ANGELLE: You are right.

14 MR. LOEWER: I understand why this is
15 listed under Monitoring, because it deals
16 with monitoring, but also it's incentive
17 enforcement also.

18 MR. ANGELLE: Correct. Correct.

19 MR. LOEWER: I would like to make a
20 comment that's probably under Enforcement.
21 But if the law is that you have to comply,
22 you should be complying not because you can't
23 get capital funding because you don't. You
24 should be doing it because that's what you
25 should be doing, not because you may not get

1 capital funding.

2 MR. KILLEBREW: Okay. We are down to
3 our last question: Is there agreement that
4 monitoring is the fundamental and key
5 component to aquifer sustainability
6 discussions and ground water budget design
7 planning and management decisions?

8 Well, I think that's -- my feeling,
9 that's a pretty good summary of the whole
10 idea of monitoring. Does anyone have any
11 comments about that?

12 Does anyone have an additional
13 question that we didn't anticipate in our
14 list?

15 Any other comments?

16 MR. ANGELLE: Good job, Mr. Killebrew.
17 Good job.

18 MR. KILLEBREW: Thank you, sir.

19 MR. ANGELLE: Okay. We, obviously,
20 have folks that are scribing, and, you know,
21 this will come back to you in a, in a report.
22 So we are going to move on to the 1:45
23 session. We are 15 minutes late. That's not
24 a problem at all. And we are going to turn
25 it over to Mr. Paul Frey from the Education

1 standpoint.

2 MR. FREY: Is this thing on? Is it on
3 now?

4 MR. SNELLGROVE: Yes.

5 MR. FREY: Okay. We are going to move
6 from something controversial to something
7 easy. Everybody is awake?

8 As Secretary Angelle mentioned
9 earlier, he added water conservation, and
10 that definitely is a connection and a tie-in
11 to Education. It's one element of Education.
12 And I think we will probably address that as
13 we go along.

14 But just to set the stage, I want to
15 compliment the Office of Conservation for the
16 progress they have made in the educational
17 arena. I know first-hand that it's, it is,
18 in fact, reaching the classrooms, because I
19 have got an eight-year-old granddaughter who
20 fussed at my daughter, her mother, for
21 leaving the water running while she was
22 brushing her teeth. She took that home with
23 her, and she's, you know, pointing that out
24 to her parents. And, you know, just an
25 observation that, in fact, we are reaching

1 those kids.

2 But in addition to reaching the young
3 and the youth of our state, who are, in fact,
4 our greatest resource, I think we need to
5 also improve on the educational efforts of
6 all users of water. And so I would like for
7 you to consider that as we go through each of
8 these elements that are identified. And with
9 that, unless anybody has anything to add, we
10 will go ahead and just get into the
11 individual items.

12 Okay. The first one and I -- yeah, it
13 is on the screen -- Should the state direct
14 resources toward the establishment of ground
15 water education and water conservation
16 curriculum in elementary or higher grade
17 levels statewide?

18 As I mentioned, there are programs in
19 place currently, but I would like any
20 comments in regard to that first item.

21 MR. SPICER: Well, now that I'm acting
22 chair, I will, I will -- yes.

23 Department of Ag and Forestry Office,
24 we have a Project WET program, educational
25 program, that reaches thousands of teachers.

1 We train them in all aspects of water,
2 including water conservation. That's an
3 outstanding effort. I think our problem is
4 we just don't have resources to do all we can
5 do with it, with that program. And, of
6 course, we have other programs within our
7 soil and water conservation districts for
8 education.

9 MR. FREY: And Project WET, Brad, as I
10 remember it, is actually aimed at the
11 teachers. The teachers go through a workshop
12 and they carry the material back to the
13 classroom.

14 MR. SPICER: And we have been
15 fortunate, we have had the Louisiana
16 Association of Conservation Districts has
17 donated money to buy the manuals, which means
18 that we buy them through Wildlife &
19 Fisheries, I think, at a special rate. But I
20 think they are 25 bucks a piece or something
21 like that. The teachers, they are
22 volunteering their time to receive this
23 training, and, and it wouldn't be fair to
24 charge them also for materials. So we buy
25 the materials through funding from other

1 associations in the state. A very good
2 program.

3 MR. FREY: Mr. McKinney.

4 MR. MCKINNEY: The Sparta Commission
5 has only one paid employee, and that's an
6 education person, the person of Lindsay
7 Gouedy. And we also -- she also does Water
8 Fest for the Lincoln Parish and Claiborne
9 Parish area and for fifth-graders. So it
10 takes a tremendous cooperation with the
11 school systems to do that because they
12 transport the kids there, lunch is provided
13 in several cases, or I guess in both cases,
14 and a very extensive program is put on. And,
15 again, it's not only what we as the state can
16 do, but it's what those school systems are
17 currently doing. And it's working extremely
18 well.

19 MR. SPICER: Yeah. We participate in
20 that effort up there. I think the last
21 session we had, we had over 400 students.

22 MR. FREY: All good comments. And I
23 would -- Gary.

24 MR. SNELLGROVE: Yes, sir.

25 I just want to add a little clarity to

1 that bullet item.

2 This question was, was derived from a
3 recommendation that came out of the E and U
4 report that focused on establishing or
5 pursuing in the state grade-level
6 expectations and curriculum through the state
7 education, Department of Education. So, so
8 bear in mind that that's really what this
9 first bullet is about, is, is pursuing,
10 perhaps, should we pursue ground water
11 education and water conservation curriculum
12 as part of the required or mandated
13 grade-level expectations so that each teacher
14 in the system will be required to -- right
15 now it's my understanding that they are not
16 required to. There are no grade-level
17 expectations for ground water conservation or
18 ground water education or ground water
19 science at certain levels. Maybe the water
20 cycle, per se, but not the in-depth, you
21 know, the in-depth study or, say, information
22 that could be presented about ground water
23 systems and aquifers and all the, the
24 terminology and, and understanding recharge,
25 all these things. So that's what the focus

1 of this first one is.

2 MR. FREY: So that would be
3 approaching the Superintendent of Education
4 and as a requirement within the --

5 MR. SNELLGROVE: BESE, Department of
6 Education Secretary, and pursuing something a
7 little more, more required in the curriculum.

8 MR. BURLAND: Gary, are you talking
9 about multiple grade levels or just at one
10 certain --

11 MR. SNELLGROVE: The recommendation
12 was third through fifth, I believe, or sixth,
13 but we had gotten some comments in our -- as
14 we traveled statewide, on that particular
15 comment, why stop there. So I broadened it
16 somewhat here to include both elementary and
17 middle school and, you know, whatever.

18 MR. MCKINNEY: I guess, being -- from
19 a selfish standpoint and being a former
20 educator myself, that would be a great
21 vehicle of which to get the word out, I mean,
22 when you are talking about the entire state.
23 But on the flip side of that, given that they
24 are required to do so much now,
25 theoretically, that is another obstacle to

1 put into the mix.

2 I would personally love to see it. I
3 think it would be great. But if I'm in
4 Mr. Education's position, I would say, wait a
5 minute. You know, we have got other things
6 yet to talk about, you know. Not that this
7 is not important, but where are you -- that's
8 what you are going to get, I think.

9 MR. SPICER: Well, that's where
10 Project WET really works well. You train the
11 teachers to incorporate this science into the
12 other education components in English, math,
13 whatever you can work it in, so it becomes
14 part of the everyday education.

15 MR. KILLEBREW: As I recall, there
16 was, excuse me, an Office of Environmental
17 Education or Environmental Education
18 Commission at some point in time. I don't
19 know where it is now.

20 MR. SPICER: It died.

21 MR. KILLEBREW: But, yeah, the idea of
22 working it in, it sort of falls under the
23 line there of water resources, but education
24 in that particular area as a component of
25 that, might think of it that way, too.

1 MR. BALKUM: Chuck, the Department of
2 Wildlife & Fisheries has an environmental
3 education department. It's a two-person
4 program. We may discuss that further down
5 this list of bullets, but that could be
6 something that the Department and other
7 agencies potential, whether that's
8 Environmental Awareness Week or, or helping
9 developing resources for teachers, that's a
10 possibility.

11 MR. BURLAND: And I think there's some
12 private resource alternatives, too. I know
13 that the, or in the past, the, the LSU energy
14 studies group had partnered with maybe the
15 LCA or maybe the chemical group did it on
16 their own. But there is an environmental
17 education program in place where they provide
18 materials to classroom teachers to discuss
19 scientific principles, the science of
20 chemicals, that sort of thing, to kind of
21 educate the kids about that area, including,
22 I guess, some industry stuff. But I would
23 think that ground water could fit in.

24 I know there's a Ground Water
25 Association, a group, you know, around the

1 state, that maybe could partner with the
2 state agencies, whoever we would identify, to
3 bring that to the classroom. And whether
4 it's a voluntary effort or whether it's
5 structured in the curriculum, I don't know,
6 but those are avenues we could explore if we
7 had time to explore them.

8 MR. SPICER: Any other comments?

9 MR. FREY: Well, if I could, let me
10 see if I can sum this one up real quick. You
11 know, this does identify curriculum, and that
12 would be a change in curriculum. And as
13 Mr. McKinney pointed out, you know, there's
14 some inherent issues there.

15 So do we -- does our recommendation
16 focus really on continuing the existing
17 programs, encouraging the educational efforts
18 toward ground water and water as, as just an
19 issue, say ground water and surface water,
20 encourage that with maybe some communication
21 to folks like the Superintendent of
22 Education, BESE, and put it back in their
23 court and continue the existing programs and
24 expanding on those, rather than shooting for
25 an actual subject matter and curriculum,

1 which is what I think this is asking? Is
2 that what I'm hearing?

3 I see a lot of nods. Okay.

4 All right. We will move on to No. 2,
5 and that's, Should the state direct resources
6 toward a more robust ground water resource
7 and conservation education program?

8 I think we have heard some of that
9 already.

10 MR. SNELLGROVE: Where this, this is
11 focused is on our current efforts as an
12 agency and where we are now. And so the
13 question there is, you know, do we stay the
14 course and improve with what we have, or, or
15 should the state seek additional resources,
16 staff, funding, what have you, to ramp it up
17 to, to another level, perhaps?

18 MR. MCKINNEY: Well, I can give you a
19 little follow-up on that. On the Sparta
20 Commission, the one person that's there now,
21 there is a good possibility that there will
22 not be enough funds to go two years from now.
23 In other words, we have got one more year
24 covered, we know. But everyone's strapped
25 for funds. Police Jury, Lincoln Parish

1 Police Jury, has cut our funding 80 percent
2 during this budget, not Mickey, but the
3 current jury. And I don't know where the
4 City of Ruston is going to be, nor some of
5 the others in the area cut. Now, all those
6 funds were going for education.

7 So, firstly, we are probably going to
8 be out of the education business unless we
9 can fall back on something of this nature.
10 And that, that will be very, very, very
11 disappointing to lose something that we have
12 the momentum going at this particular point.

13 MR. MAYS: Can I just add to what Ted
14 said.

15 We did a cooperative deal where
16 several governments, industry, donated money
17 to put together to a CD, a conservation CD,
18 and it went to the schools, not part of, of a
19 curriculum. A short CD, distributed to
20 students. And I think they all get that in
21 the fifth grade.

22 So we may be a little -- seeking
23 something too big as far as curricula goes in
24 the school, where it could be something as
25 small as, you know, an hour a year where they

1 get these CD programs and go over them and
2 that's it. It's not, it's not an
3 overwhelming burden to a teacher.

4 But as I look out here, most of us are
5 of an age that we can remember when we didn't
6 have to buckle our seatbelts. And our
7 children came home from school and got in the
8 car and told us to buckle our seatbelt. And
9 so I think a consistent program at some age
10 that doesn't have to be real extensive
11 curricularly, if you will, can really help
12 with conservation.

13 MR. FREY: Any other comments?

14 MR. SPICER: Any other comments? If
15 not, you want to move on, Paul.

16 MR. FREY: Okay. Item 3, Should the
17 state seek to partner with any existing
18 Web-based education efforts -- Mickey just
19 referred to one -- or develop, improve upon
20 existing DNR Web-based education and outreach
21 efforts?

22 MR. SPICER: Gary, do you know the
23 basis for that?

24 MR. SNELLGROVE: Well, existing --
25 what we have right now, we have, on our Web

1 page, we have developed, compiled, from
2 existing water conservation resources and
3 information places, and put together somewhat
4 in a repackaged or organized way some teacher
5 aids, so that they can go to our website,
6 they can find this material, they can find
7 experiments, and do different things to
8 provide education on ground water
9 conservation and aquifers, et cetera. So, so
10 we have, so we have something there. And
11 it's, and it's Web-based, it's there.

12 But I'm thinking more tutorial type
13 of, type of thing. Something a little bit
14 more than just going out and finding
15 information. Something that would maybe more
16 like train, train the trainer type stuff,
17 or -- which would be, of course, be for the
18 teacher, where they would not have to
19 interact with somebody, per se, but could go
20 through and do it online and to get a basic
21 education such that they can carry that
22 forward to, to their classroom.

23 That's just one idea that I was
24 thinking, or if there are any already
25 existing Web-based types of, of programs

1 already out there, then, you know, that we're
2 not -- may not be aware of, then, then
3 identify them and then seek to partner with
4 them to add some aspect of ground water
5 conservation into their already existing
6 program. Maybe Wildlife & Fisheries has
7 something in their efforts that, that is
8 Web-based that we could maybe partner with
9 and add some materials, kind of piggyback it
10 off of their existing program.

11 I'm not aware of a lot out there. And
12 I think that's where we were when we had our,
13 in our state agency discussions, it was a
14 concept that we should pursue, you know,
15 because it may be easier to do that than try
16 to create or reinvent the wheel and start
17 anew with resource, limited resources.

18 MR. SPICER: Any comments?

19 Paul.

20 MR. FREY: I do know the -- well,
21 there was some mention earlier, I think,
22 about Project WET. That's a
23 train-the-trainer program. Sparta has
24 developed the CD ROM. I know your staff has
25 probably looked at other water conservation

1 agencies around the country and particular
2 things that they have developed. I know if
3 you just surf the Web, you can come up with a
4 number of those types of things. So I think
5 there's, there's a number of existing
6 possibilities out there I think you can find.

7 MR. SPICER: Gary, do you have someone
8 from the staff there that manages this
9 website or is it --

10 MR. SNELLGROVE: Let's see, our public
11 relations folks actually put it together.
12 And that was about probably, you know, a year
13 and a half back. But, yeah, I mean, it's
14 kind of as needed.

15 We, we don't have -- right now we
16 are -- we all share, as a staff of 12 or 13,
17 different opportunities or events where we go
18 out in the public and outreach. We don't
19 have a dedicated person --

20 MR. SPICER: Right.

21 MR. SNELLGROVE: -- to, to go out and
22 just do that. We share that responsibility
23 based on goals that we have established to go
24 out and seek certain parts of our education
25 program, and we work it through our public

1 relation folks who do occasionally
2 participate along with us when they have the
3 opportunity.

4 MR. SPICER: And I think that's the
5 issue for most agencies, or most all of them.
6 They don't have the resources to dedicate one
7 individual or several to this decision, and
8 that's really a serious lack.

9 MR. SNELLGROVE: That's kind of where
10 we were driving on this one. It's, you know,
11 do we want to continue as we, we are right
12 now?

13 MR. SPICER: I think it needs
14 strengthened, absolutely.

15 MR. MAYS: I would agree. You know,
16 the numbers that we looked at and saw on its
17 face, if we look at, if we look at this as a
18 value proposition, education is going to
19 result in conservation. And I don't know
20 what Paul's numbers look like from his
21 association, but what we have looked at, is
22 the potential to save approximately 20
23 percent with conservation. And education is
24 the key to the conservation. Because I think
25 some pricing would help with the conservation

1 part, too, but I think it's a very
2 value-oriented proposition. If I'm a
3 legislator and I sit down there and I see
4 that I can put some money in education and
5 that's going to help out with conservation,
6 this is some of the best dollars that can be
7 spent.

8 I know we have kind of maybe gone over
9 this a little fast, and don't see it, but I
10 think it's -- most of these points are very
11 good points, Paul, in my opinion.

12 MR. ANGELLE: Yeah. You know, when
13 you take a look at spending \$10 million on
14 master meters and getting some of the folks
15 in compliance, that's one thing. But, but,
16 you know, spending money on education, which
17 leads to conservation, which leads to that 20
18 percent that you talking about over time, is,
19 is -- for a lot less money than maintenance
20 is the value proposition and it flows off the
21 charts.

22 MR. SPICER: And it's long-lasting.

23 MR. ANGELLE: It's long-lasting, yeah.

24 MR. FREY: Okay. If I can take a
25 moderator's prerogative, I would like to --

1 can you flip to the next page. I think the
2 first item on the next page follows more in
3 sequence, and then we can go back to that
4 other item. We're talking about other
5 programs, other Web-based opportunities, et
6 cetera.

7 And that bullet addresses, Are there
8 education opportunities through the LSU
9 Cooperative Extension Service?

10 We have mentioned -- Mr. Spicer
11 brought up the, the soil and water -- Office
12 of Soil & Water work with Project WET.
13 Mr. McKinney and Mr. Mays mentioned the
14 educational efforts of the Sparta Commission.
15 The LSU Co-Op Extension Services is named
16 here. Wildlife & Fisheries has educational
17 programs with two people in place.

18 So I think this, this probably
19 addresses are there other opportunities out
20 there, are there some we haven't reached yet.
21 And have we really, because of trying to
22 leverage dollars and leverage manpower, can
23 we, in fact, look at other opportunities, or
24 at least that's how I read it.

25 MR. ANGELLE: Uh-huh.

1 MR. FREY: Have we hit them all?

2 MR. ANGELLE: Well, I think, I think
3 that there are a variety of resource
4 education opportunities with our agencies
5 that do miss the boat on, on environmental
6 awareness education, and it's broader than
7 LSU. You know, it's a lot of different
8 groups for sure.

9 MR. FREY: Mr. Killebrew, you
10 mentioned the Environmental Education
11 Commission. Is that still a viable entity?
12 Can anybody answer that question?

13 MR. KILLEBREW: Not to my knowledge.
14 I think, I think Kyle had a comment about it.
15 Is that where the staff that you
16 mentioned were, were members of that at some
17 point in time, or part of that program?

18 MR. BALKUM: Our environmental
19 education programs in the Governor's
20 Office --

21 MR. KILLEBREW: Yeah --

22 MR. BALKUM: -- two years ago.

23 MR. KILLEBREW: -- that's what I was
24 thinking. They transferred over there.

25 MR. FREY: That would be a, a

1 coordinating group, so to speak. If, in
2 fact, various agencies, the various
3 universities, all those folks have
4 representatives on the, on the environmental
5 education commission, and those folks could
6 begin some dialogue in terms of coordinating
7 efforts. Seems like that's what we are
8 talking about here.

9 MR. MILLER: Paul, our DEQ still
10 participates in that effort in the Governor's
11 Office.

12 We have actually done other things as
13 well, and I was going to touch on it over in
14 the Enforcement area. But it fits here as
15 well because it ties between.

16 As an agency, we found a lot of small
17 operators who violated our rules. So we
18 developed an outreach program called Enviro
19 School. And, actually, what it does, it
20 focuses on, like, little small gas stations
21 who don't do the proper testing on their
22 underground storage tanks. And the first one
23 was actually on this poo poo school, because
24 it was little, small wastewater operators who
25 weren't doing things correctly. So what we

1 did as an agency as part of our enforcement,
2 we tied an educational component to it. And
3 we said that if you will go through this poo
4 poo school, which was the original one -- and
5 that's really, that's what we called it -- if
6 you will go through that, your enforcement
7 will be taken -- that will be taken into
8 account in any enforcement actions as far as
9 penalties and so forth.

10 It was highly successful. And we saw
11 that instead of people coming back a short
12 time later with yet another compliance order
13 for having done the same mistakes, we began
14 to get people to realize that there was a
15 better way to do it to stay out of trouble.

16 So the same sort of component might
17 become part of the effort of the Office of
18 Conservation in the ground water area, that
19 maybe if we see people that continue to have
20 problems filling out the paperwork correctly
21 or doing what they should, maybe there could
22 be an educational component as part of the
23 enforcement activities. It's been very, very
24 successful with several programs at DEQ.

25 And then we expanded it out to not

1 only folks that were in non-compliance, but
2 we went out and said to the community, if you
3 want to know more about air quality, we will
4 put a school on. If you want to know more
5 about each of our programs, hazardous waste,
6 solid waste. Again, it was -- it's been a
7 very successful avenue to get the word out to
8 people. So it's something that we may want
9 to consider in whatever we come up with as
10 far as our overall ground water management
11 plan and communicate that out to people.

12 MR. ANGELLE: What -- and, I'm sorry,
13 I had to take a call -- but if you could,
14 just for a couple minutes at the most,
15 describe the state's, to your knowledge, the
16 state's efforts on ground water education.

17 MR. SNELLGROVE: DNR's efforts?

18 MR. ANGELLE: The state.

19 MR. SNELLGROVE: Well, we just heard,
20 while you were away, we had several different
21 groups, I think Project WET sounds like, from
22 Agriculture and Forestry, may be one of the
23 most aggressive programs out there. Wildlife
24 & Fisheries has a, an environmental education
25 group that is staffed. They have got two

1 staff members there. And we have had, you
2 know, Cooperative Extension Service has kind
3 of a network out there we're aware of.

4 When we're talking about education,
5 though, I have to separate conservation from
6 educating folks on how to comply.

7 MR. ANGELLE: Right.

8 MR. SNELLGROVE: So most of my -- most
9 of our effort, to be quite honest with you,
10 in conservation has been on getting people to
11 comply.

12 MR. ANGELLE: Sure.

13 MR. SNELLGROVE: To manage that
14 resource from withdrawal and, you know, our
15 main drive, which is, which is, of course --

16 MR. ANGELLE: You manage, you manage
17 sustainability.

18 MR. SNELLGROVE: Right.

19 MR. ANGELLE: You manage the
20 withdrawal. We are talking about managing
21 the users, which are the 4 million people in
22 the state.

23 MR. SNELLGROVE: Correct.

24 And through that outreach --

25 MR. ANGELLE: Right, Mr. Mickey? Is

1 that right?

2 MR. MAYS: Yes.

3 MR. ANGELLE: So, I mean, your efforts
4 have been, your withdrawal either as the
5 domestic person or, you know, a public
6 supply, we want you to comply with this rule,
7 we want you to register, and so, so we are
8 doing that. That, that, that to me is, is
9 not why you're educating folks. You, you --
10 that's more enforcement to me.

11 MR. SNELLGROVE: It's part of
12 enforcement; correct. It's to get -- it is
13 education, but not conservation education.

14 Now, conservation education we have
15 participated with various, over the years,
16 with various school, you know, going into the
17 school systems and going out and providing
18 this, the video that we partnered with
19 Sparta, getting that message out. We
20 distributed throughout the state public
21 education system to reach further than just
22 the Sparta area, but statewide.

23 I mean, so we have done -- I would say
24 we have done a lot, and we were aggressive as
25 we were able to have the staff to put effort

1 into that, and I think we grabbed as much
2 low-lying fruit as we could at the time and I
3 think we continue to do so. But right now
4 it's not really -- it's not a uniform
5 approach.

6 MR. ANGELLE: Right.

7 So let's, for, for, I guess, the
8 take-away, from my standpoint, I would
9 recommend, Mr. Paul, would be that we should
10 review and analyze all public dollars that
11 are being used for environmental education
12 and determine if there is an opportunity to
13 expand the role of ground water conservation,
14 conservation -- ground water
15 education/conservation in that, in that -- as
16 we analyzing the monies that we have.

17 Because I think, you know, there's no
18 question that it might, it might make more
19 sense for DNR, DEQ, Ag and Wildlife &
20 Fisheries each to put up a few dollars and
21 have one person that we are all contributing
22 towards, and that person is out there doing a
23 variety of environmental education, not just
24 ground water, but, you know, other things as
25 well. And, of course, we need to know what

1 the population of dollars are so that we can
2 determine whether or not it's an opportunity
3 there. And then, of course, that ought to
4 include, again, LSU, it ought to include
5 local governments. You know, what are we
6 doing as a state, I think is what we need to
7 answer the question.

8 MR. SPICER: And I would like to add
9 to that, that we should have an official
10 component here, not just imposed, that we
11 have an education program of some type that,
12 that's focused on educating school children.
13 I think if we leave this subject without
14 nailing it down, we are going to go on
15 another however many years and not do it
16 proper. So I really think we need to --

17 MR. ANGELLE: To bring in the
18 Department of Ed?

19 MR. SPICER: Whoever we need to make
20 sure that we have a solid program for
21 education.

22 MR. ANGELLE: Do we know if there's an
23 Environmental Awareness Week --

24 MR. SPICER: Yes.

25 MR. ANGELLE: -- in the state where

1 fifth or seventh or eighth graders are
2 focused on?

3 MR. MILLER: I know there are various
4 components of that. I don't know if
5 there's--

6 MR. SPICER: Our districts participate
7 in environmental. We have a Soil and Water
8 Stewardship Week at the end of April each
9 year. We go out in the schools, public
10 schools, and churches, for educating water
11 conservation, soil and water conservation.
12 And I think it's --

13 MR. MILLER: We have an Air Quality
14 Awareness Week, as well. I think it's media
15 by media maybe. A larger, more overall
16 picture may be, may be something would be --

17 MR. SPICER: Through the Governor's
18 Office, don't we do something each spring,
19 some kind of event?

20 MR. ANGELLE: Let's research that.

21 MR. MAYS: Mr. Angelle, but -- and I
22 don't know what department, falls on one of
23 you guys, I'm sure, the Wellhead Protection
24 Program. And you have --

25 MR. MILLER: DEQ.

1 MR. MAYS: -- these ladies that come
2 to the Police Jury and different governmental
3 bodies. And you make a partnership with
4 them, and you, you -- they put the signs out.
5 And it is kind of, I would say, maybe a model
6 that could be looked at for possibly
7 conducting a statewide-type education.

8 MR. ANGELLE: All right. Good point.
9 Make a note of that.

10 MR. FREY: I think before we leave
11 that one, too, the fact that it's LSU
12 Cooperative Extension Service was identified.
13 No one mentioned the 4-H program, county
14 agent system in place. I know Mr. Loewer has
15 all the farmers, Mr. Colvin on county agent,
16 in terms of education, continuing education,
17 in regard to that.

18 Gentleman in the audience.

19 MR. LELEAUX: Yeah, excuse me.
20 Louisiana Rural Water Association is probably
21 one of the largest groups in Louisiana. And,
22 I mean, you need to continue to participate
23 with it. The Louisiana Ground Water
24 Association, we have the continuing education
25 for the water well drillers to, to -- we're

1 pretty much doing that now, but you do have
2 to have funding to get those people there to
3 participate.

4 MR. FREY: Thank you, Mr. Leleaux.

5 MR. DUPLECHIN: If I could make just a
6 few comments so that people will realize that
7 the Department has done -- had done a lot of
8 work in the past. And like everything else,
9 it all comes down to funding.

10 Two years ago, for Ground Water
11 Awareness Week, which there is a set aside
12 Ground Water Awareness Week established by
13 National Ground Water Association, the state,
14 DNR, sent teams around the state to cities
15 that spelled out water, Walker, Abbeville,
16 Tioga, Epps, and Ruston, to teach kids in
17 school as best they, you know, as many as
18 they could reach, about ground water
19 conservation. And we worked with Lindsay
20 Gouedy up in Sparta to do that, the
21 Department did. Unfortunately, there's
22 been -- it's had curtailed with a lot of the
23 educational activities over the last two
24 years due to funding.

25 Secretary Angelle had set up what was

1 called a Geaux Team at the Department of
2 Natural Resources that went out and
3 instructed people on many different facets of
4 things that DNR did. But, unfortunately,
5 here again for funding, those activities had
6 to be curtailed. So it all comes down to
7 funding.

8 There has been a lot that the
9 Department has done over the last two years
10 in getting out to educate the public on
11 ground water. And if funding becomes
12 available, I think that those activities will
13 start up again.

14 MR. FREY: Thank you, Mr. Duplechin.

15 Okay. Are we ready to move on to the
16 next?

17 MR. SNELLGROVE: Can I recap what I
18 believe to be the task for the staff to
19 pursue?

20 MR. FREY: Please go ahead.

21 MR. SNELLGROVE: Okay. I think, I
22 think what I heard was investigate or to go
23 out and assess how much money is being spent
24 or appropriated towards various agencies on
25 environmental education and awareness. And

1 then, perhaps, pursue some type of
2 multi-agency partnership whereby each of
3 these agencies contribute to, say, one single
4 group or individual within, within that
5 partnership.

6 MR. ANGELLE: I wouldn't, I wouldn't
7 limit it to one. Just, just to determine
8 what is out there, what is being done, and to
9 determine whether or not there can be a more
10 integrated approach to, to achieve a better
11 result.

12 MR. SNELLGROVE: For comprehensive
13 environmental awareness as a whole where
14 ground water is an aspect of it; is that
15 correct?

16 MR. ANGELLE: Correct.

17 MR. SNELLGROVE: Okay. Got it.

18 MR. WELSH: I have got one comment.

19 Mr. Mays mentioned the Wellhead
20 Protection Program. That's a DEQ program. I
21 believe the name, Paul, now has been changed
22 to the Ground Water Protection Program?

23 MR. MILLER: I still refer to it as
24 the Wellhead Protection --

25 MR. WELSH: I know.

1 MR. MILLER: -- but I may be -- that
2 may be not doing it correctly.

3 MR. WELSH: I think that's right. But
4 if somebody wants to do some research on that
5 program, you might.

6 Do you know, Lou, has that been
7 changed?

8 MR. BUAT: Yeah, I believe it has
9 been.

10 MR. WELSH: Okay. It's the Ground
11 Water Protection Program now.

12 MR. FREY: Okay. We are going to jump
13 back to the last item on page 10. Should
14 statewide water districts be required to
15 provide on a regular basis ground water
16 resource conservation education announcements
17 to customers via billing invoices?

18 Gary, I assume that came out of some
19 public comment in the various meetings, or
20 was that a recommendation from, from the
21 draftees of the plan?

22 MR. SNELLGROVE: This, I believe, has
23 some history. I think we kicked it around
24 internally, maybe even in a meeting or two in
25 the past with Ground Water Resources, our

1 Commission meetings.

2 I believe that we did investigate this
3 sometime back, as I recall, and we found that
4 there are, actually, many suppliers who are
5 currently doing this type of activity wherein
6 in their bills, billing, or whatever, they
7 will put little tips in there on ground water
8 conservation and what have you. But I think
9 what this is -- what the difference is that's
10 all been voluntary. So what this is saying
11 here, should there be an effort to mandate it
12 or require it.

13 MR. FREY: Comments in regard to that
14 suggestion?

15 MR. ANGELLE: Other than working with
16 children in the school system, I think this
17 is the No. 1 easy, cheap way to -- when
18 you're getting a, a bill, and I realize
19 bills -- probably most water bills don't come
20 in, in envelopes anymore. They come on a
21 card. So how you do it might be, you know,
22 somewhat challenging. But, obviously, when
23 you're getting a bill, and you are getting a
24 suggestion on how you might lower your bill,
25 that to me is the point of interaction that

1 is, is going to be the highest and best
2 results or outcomes. So whether or not we
3 require, suggest, incentivize, can be a few
4 different words.

5 MR. MAYS: The water systems, the
6 small, rural water systems, do they have to
7 send out, do they have to send out what's in
8 the water? Like, the City of Ruston sends
9 out a pamphlet every year to everyone what's
10 in the water. And my thought is, it's not
11 going to cost anymore to put a little
12 conservation piece right there. Otherwise,
13 probably just sending out a little postcard
14 type deal.

15 MR. ANGELLE: Right.

16 MR. MAYS: I don't know if they
17 have -- if that is a requirement that they
18 had to send that.

19 MR. ANGELLE: Right.

20 So, so I think what we would do is
21 research whether or not water districts are
22 communicating other requirements to comply
23 with guided DHH or DEQ rules that would
24 present an opportunity for conservation
25 measures to be added to that, to that, to

1 that vehicle.

2 MR. MAYS: You know, they are always
3 looking for your capital outlay money, No. 1.
4 And, No. 2, they are always coming to your
5 local Police Jury for help or support.

6 So -- and I don't know if it would be
7 a mandated deal, but I believe you could come
8 up, come up with a program to get some
9 results. Doesn't necessarily have to be a
10 mandated deal.

11 MR. ANGELLE: Right. No, no, no.

12 MR. MAYS: Ask them to send out a
13 piece that they prepared.

14 MR. ANGELLE: Absolutely.

15 MR. FREY: Any other comments on this
16 one?

17 Okay. The next item is -- it would be
18 item two on page 11, Could the state rely
19 upon local governments through building
20 permit offices to provide ground water
21 education and conservation practices, et
22 cetera?

23 MR. MAYS: I guess that I can probably
24 speak to that more than most, but I think
25 they, they would be willing to give out

1 literature that would stress conservation,
2 but already the system, itself, as far as
3 building permit, is, is an unfunded mandate,
4 Scott.

5 MR. ANGELLE: Yeah. Yeah.

6 Can we pass a constitutional amendment
7 about that, when I was wearing a different
8 hat?

9 MR. MAYS: Exactly.

10 MR. ANGELLE: I think it's a great
11 idea now.

12 Yeah, I think what we are saying there
13 is, again, it's a point of interaction. It's
14 been, it's been my experience as a parish
15 president that folks come in for building
16 permits, you know, to build homes. It's
17 usually a pretty exciting time. And if there
18 are ways to, to provide information.

19 I remember when I got my marriage
20 license, the Clerk of Court gave me a little
21 gift pack, and it had a variety of things in
22 there, some of which I had never seen or
23 understand why I got them. And, and by your
24 laughter, you know what I'm talking about.

25 So, you know, is there the opportunity

1 for us to say, you know, as you design your
2 home or as you're doing it, you know, here's
3 an opportunity for us to -- again, it's just,
4 I think this is, is -- it's like an
5 advertising campaign. It's some media, you
6 know, some billboard, some direct mail, some
7 of all of the above. And this is just one
8 idea where I don't necessarily rely, but,
9 again, "request" is probably the right word.

10 MR. FREY: I would add to that, Mr.
11 Secretary, that it be done early in the
12 process.

13 MR. ANGELLE: Right.

14 MR. FREY: Because after dealing with
15 the permit offices in East Baton Rouge and
16 Cameron, they were not the best messengers
17 later in that, in that --

18 MR. ANGELLE: Yeah. Yeah.

19 MR. FREY: But early on, yeah. I
20 mean, you know, obviously, some, some things
21 that could be done.

22 MR. ANGELLE: Right.

23 I mean, like, didn't -- did the
24 federal government pass a law on the -- and
25 then end up repealing the law on the liters,

1 the liter size for commodes?

2 MR. OWEN: They do require now
3 low-flow toilets. They require flow
4 restrictors on showers. And I'm not familiar
5 with permit places in every place, but in
6 cities that I know of, you cannot get a
7 building permit to install plumbing or
8 water-using fixtures without compliance with
9 those regulations.

10 MR. ANGELLE: Right.

11 So, so to a new homeowner who is
12 shopping for those accessories, have they
13 outlawed the manufacture of -- I kind of
14 remember, like, 1.6 liters per flush?

15 MR. SPICER: They haven't outlawed the
16 manufacture. They've outlawed the sale of
17 it.

18 MR. ANGELLE: Okay.

19 MR. SPICER: They can sell them in
20 Mexico, but they can't sell them here.

21 MR. OWEN: You can't find one.

22 MR. ANGELLE: You can't? You can't
23 buy a big toilet?

24 MR. OWEN: No.

25 MR. MILLER: Go to Canada.

1 MR. ANGELLE: You can go to Canada.

2 MR. MILLER: They are still available
3 for sale in Canada.

4 MR. ANGELLE: Okay. But you really --
5 so, seriously, you cannot go to Coburn's, or
6 those kind of places, and get that?

7 MR. COLVIN: I think in an educational
8 sense, I mean, it's a great opportunity. You
9 know, they get a building permit, it's got a
10 packet in it --

11 MR. ANGELLE: Right.

12 MR. COLVIN: -- recommending, you
13 know, use reduced, you know, shower heads
14 that use less water, I mean. And then also
15 just the educational aspect of conserving
16 water within your home, it's going to save
17 you money.

18 MR. ANGELLE: Right.

19 And so it's not so much about -- I
20 think Paul has a good point about the concern
21 of who the messenger is. It's really more
22 here, you know, here's a document that's
23 almost attached to your building permit, and
24 it's a point of interaction, and hopefully
25 you find it to be useful.

1 MR. MILLER: Just had a, a point of
2 clarification. The official name of the
3 program is actually the Drinking Water
4 Protection Program. But in the newsletter it
5 still references the Wellhead Protection
6 Program.

7 And there's, actually, a lot of
8 resources that are available online on our
9 website associated with that. So maybe a
10 good dovetail in to what we had mentioned
11 earlier.

12 MR. ANGELLE: Keep putting it in front
13 of folks.

14 MR. MILLER: Absolutely.

15 MR. ANGELLE: You know, I think
16 something as simple as -- I know this is
17 ridiculous -- a little sticker that says --
18 it's on your bathroom mirror -- that says,
19 Turn off the water, as a reminder when, you
20 know, I'm told when you're brushing your
21 teeth, you don't need to run the water.
22 Well, you know, I'm not so sure that all of
23 us are following that.

24 MR. SPICER: I didn't know that.

25 MR. ANGELLE: You didn't know that?

1 MR. MILLER: To that point --

2 MR. ANGELLE: You've got to brush your
3 teeth to know that.

4 MR. MILLER: To that very point, I
5 find myself much more conserving water having
6 been involved in this effort --

7 MR. ANGELLE: Right.

8 MR. MILLER: -- from just learning a
9 lot on the Board. I find that I turn the
10 water off when I brush my teeth.

11 MR. ANGELLE: Absolutely.

12 MR. FREY: Before we leave building
13 permits, it maybe triggered the thought --
14 and I know, I know Mr. Spicer would remember
15 these, but a lot of the rural homeplaces had
16 cisterns back in the, the old days.

17 I mean, would -- is that, from a DEQ
18 standpoint, Paul, is a cistern still a viable
19 option for -- and I'm not necessarily for
20 drinking water, but other water uses?

21 MR. MILLER: There are a lot of areas
22 of the country that even use gray water; they
23 would reuse gray water. So depending on
24 where you are, there are a lot of uses of
25 water that are there, even as far as the

1 actual regulation of drinking water by the
2 Department of Health and Hospitals. We
3 just -- it was just a tie between the
4 agencies. I think we have heard, you know, a
5 number of discussions today, and many of the
6 meetings that we have had, there's, actually,
7 a lot of ties with what agencies do.

8 But we, we deal with the drinking
9 water side from the protection of the source;
10 hence, the original calling it the Wellhead
11 Protection, which was to make sure that
12 underground storage tanks weren't leaking, or
13 that chemical tanks weren't leaking and
14 impacting ground water. But, you know, the
15 intent behind those efforts are to protect
16 ground water and protect the drinking water
17 supply of those. So while we don't regulate
18 specifically, we are involved with Health in
19 actually protecting that supply.

20 But as far as cisterns, that would
21 fall in under the water -- Safe Drinking
22 Water Act, which is under the Department of
23 Health and Hospitals.

24 MR. FREY: Any other comments before
25 we leave this one?

1 Okay. The next bullet is, Are there
2 any social media opportunities for ground
3 water education and conservation?

4 Gary, can you shed a little bit of
5 light on this one?

6 MR. SNELLGROVE: Yeah. Social media,
7 I guess, Facebook, Twitter, you know, some of
8 the things that I'm not that particularly
9 involved with but most of the, I guess, most
10 of the rest of the nation is. It's become
11 seemingly a more and more viable tool for
12 getting the word out and for understanding
13 things.

14 That -- are other agencies involved in
15 that type of activity? Do they have these
16 things set up? I mean, Wildlife & Fisheries?

17 MR. BALKUM: (Nodding head.)

18 MR. SNELLGROVE: Is it something we
19 can --

20 MR. ANGELLE: DNR is tweeting -- we
21 are tweeting right now, and we got, I think,
22 a Facebook. So, I mean, is it just a matter
23 of, of, you know, making it a responsibility
24 of our public information center? I mean,
25 that's the cheapest way to get information

1 out, and it's free, you know.

2 MR. SNELLGROVE: Yeah.

3 MR. ANGELLE: You've just got to have
4 a network where you can, you can do it,
5 right? I mean, who would have thought that
6 state government would be tweeting? Is that
7 the right word?

8 Jackie is over there saying -- like
9 you know, Jackie.

10 MR. LOEWER: Get the youngest person
11 in the room.

12 MR. FREY: I can see the tweet now,
13 Secretary Angelle says only rinse once when
14 brushing.

15 MR. ANGELLE: Once when brushing and
16 three times when flushing.

17 MR. SNELLGROVE: So, so, yeah, I mean,
18 what I'm hearing is it's -- I guess it's a
19 pretty common aspect of the way we
20 communicate nowadays.

21 MR. ANGELLE: So I think the take-away
22 would be to, to investigate and determine
23 opportunities for social media for ground
24 water education conservation.

25 MR. SNELLGROVE: Okay.

1 MR. ANGELLE: The answer is yes. And,
2 obviously, staff is going to kind of put, you
3 know, kind of put all this together in, in a
4 report.

5 MR. SNELLGROVE: Should we get with
6 our PR folks?

7 MR. ANGELLE: Yeah, that's the way we
8 would do it. You-all will have to have a --

9 MR. SNELLGROVE: A discussion.

10 MR. ANGELLE: -- a session right after
11 this, Monday or something.

12 MR. SNELLGROVE: Okay.

13 MR. FREY: Okay. Any other comments
14 on this one?

15 And that last bullet on page 11,
16 Should the state seek resources to develop an
17 internet-based driller certification and
18 annual continuing education program?

19 MR. ANGELLE: Who can speak to what's
20 required now of the driller?

21 MR. FREY: The gentleman from the
22 Rural Water.

23 MR. SNELLGROVE: I'm going to let Jeff
24 give you a tutorial on that.

25 MR. ANGELLE: Why don't you come to

1 the --

2 MR. LELEAUX: It's six hours of
3 continuing education for each water well
4 drillers licensed on. Environmental
5 drillers, same thing.

6 MR. ANGELLE: For the record, would
7 you -- you get paid more if you sit down.

8 MR. LELEAUX: Okay.

9 MR. JONES: This is Harold Leleaux, by
10 the way.

11 MR. LELEAUX: But, basically, before
12 you get a water well driller's license and
13 environmental driller's license, you have to
14 have six hours of continuing education each
15 year.

16 MR. ANGELLE: And who do you get that
17 license from?

18 MR. LELEAUX: (Indicating.)

19 MR. ANGELLE: From Snellgrove's
20 office?

21 MR. LELEAUX: Yes.

22 MR. ANGELLE: Okay. And how do you
23 get that education now?

24 MR. LELEAUX: Right now the Louisiana
25 Ground Water Association is providing that

1 service at a convention in January, and they
2 do it again in April.

3 MR. ANGELLE: And it's done by --

4 MR. LELEAUX: Louisiana Ground Water
5 Association.

6 MR. ANGELLE: Right. But just
7 seminars and presentations, whatever?

8 MR. LELEAUX: Correct. Correct.

9 Now, that's the group of water well
10 drillers that put it together or
11 environmental drillers that belong to this
12 association. They have a similar type thing
13 with rural water operators, you know.

14 MR. ANGELLE: Right. Right.

15 So one of the things that we will
16 begin to roll out in the state is virtual
17 schools, and the Governor announced this
18 earlier this week, where hopefully we will be
19 able to -- you know, you will have a,
20 perhaps, a ninth, tenth or eleventh grader,
21 some kid, who will not physically be at a
22 bricks-and-mortar school, but will have a
23 lesson through a delivery of a technology
24 computer system. And so what I'm looking to
25 do is to say that -- and that is a, you know,

1 that's a, that's a great goal, and it's
2 far-reaching, it's going to have beautiful
3 impacts on this state.

4 It would seem to me that the state
5 could, perhaps, provide some leadership in
6 making it easier for drillers to get that six
7 hours by the state coming up with a program
8 that a driller wouldn't have to go to New
9 Orleans or Baton Rouge or Shreveport or Lake
10 Charles or Lafayette for the seminar, that
11 takes away from the opportunity to do work
12 and costs money; that they could actually
13 just do it, do it online. And, and, and, I
14 mean, I'm assuming that would be something
15 that -- now, look, drillers tell me, no, no,
16 look, we like our weekend in New Orleans, you
17 need to not, you know.

18 MR. LELEAUX: We have a lot of
19 drillers that are from out of state, and they
20 have to fly in to come to Louisiana for that
21 particular. I understand it would be, you
22 know, really good for a lot of different
23 drillers. So we have some drillers that use
24 Louisiana continuing education for the next
25 state over, you know. I mean, they -- I

1 mean, it might be for a national association,
2 those licenses. So, yes.

3 MR. ANGELLE: All right.

4 MR. SPICER: Can I ask you, do they --
5 is there an examination at the end of the
6 training?

7 MR. LELEAUX: You have an examination
8 before you get your driller's license.

9 MR. ANGELLE: And after that --

10 MR. LELEAUX: After that, you have to
11 have six years every -- six hours every year
12 continuing education.

13 MR. SNELLGROVE: We have experimented
14 with this just last year with SONRIS and
15 Sunsets seminars. We actually provided three
16 hours of continuing education units toward
17 driller's licensing. We had -- we didn't
18 have a great turnout, but we also didn't have
19 a lot of time to advertise and get the
20 message out.

21 We do intend to continue to do that,
22 which could be somewhat of a, a fun -- a
23 basis for us to provide a more Web-based
24 approach because the materials, you know,
25 will be pretty much there --

1 MR. ANGELLE: Right.

2 MR. SNELLGROVE: -- to do so.

3 So, you know, we intended to extend
4 just from three hours credit to six hours
5 such that you can get the whole, you know,
6 the whole annual commitment --

7 MR. ANGELLE: Right.

8 MR. SNELLGROVE: -- at the SONRIS and
9 Sunset seminar. So we will see how it goes.

10 I mean, we have initiated somewhat of
11 a process to begin -- the state to begin to
12 provide that, that accreditation versus, say,
13 the LGWA. Of course, they are going to still
14 continue to do that.

15 MR. ANGELLE: Right.

16 And let's just think what's going to
17 end up happening, if you can do, if you can
18 do it easier, cheaper from home, then instead
19 of six hours, you have the ability to require
20 nine hours. And so you have more education,
21 everybody is happier. You know, they save
22 money, they save time. Six hours, nine
23 hours, over a period of a year, or 12 hours
24 over a period of a year, versus, you know,
25 again, the cost and expense of away from job

1 site, just seems like it's something we need
2 to take a look at.

3 If we're going to allow ninth graders
4 to have, you know, attendance at virtual
5 schools, we certainly can allow folks in
6 business to do it as well.

7 MR. JONES: Mr. Chairman, I have got
8 to say that we have received requests,
9 particularly someone from Texas or out of
10 state, as Harold was mentioning. And we have
11 accepted online credits from certain, certain
12 companies, depending on, on the actual
13 course.

14 We don't accept Texas water well rules
15 and regulations, for instance, but we do
16 accept course work from National Ground Water
17 Association. And these are, as I said, these
18 are national courses in hydrogeology. But we
19 have also, like I say, accepted from Red
20 Vector is one website, but we don't -- we
21 have not, I will say this, publicized it to
22 any effort. But when we do receive the
23 requests, we, we have complied. Thank you.

24 MR. COLVIN: It could be easily
25 implemented, just like the ethics are right

1 now, Louisiana ethics. You can go on and do
2 your ethics thing online. It's a pretty
3 simple process. I mean, if you want to do an
4 hour a night, or whatever, you do it, you go
5 back, you start back where you left off. I
6 mean, it looks like it would be a self
7 process that's already underway in other
8 parts of the state; you know, could be
9 probably implemented in this instance pretty
10 easily, I would think.

11 MR. FREY: Any other comments on that
12 item?

13 Okay. We are on to page 12, the first
14 bullet on that page, Should the state focus
15 resources on developing a ground water
16 conservation education strategy and materials
17 directed at various youth groups?

18 We've had some extensive discussion, I
19 think, already on that particular item. I
20 don't know if we need any clarification.

21 MR. MAYS: I would like to add one
22 thing, Paul.

23 We've got all of us representing
24 different -- a lot of us representing
25 different associations and have memberships

1 and publications monthly. If we could get
2 either an ad agency or the department or
3 something to provide an ad similar to -- I
4 mean, in Sparta we have Every Drop Counts
5 type deal, that won't cost anything, except
6 the preparation of something. And they will
7 run it. They will be glad to.

8 MR. ANGELLE: Yeah. Very inexpensive
9 way.

10 MR. FREY: Okay. Anything else?

11 Next item, Should the state establish
12 a multi-agency Environmental Awareness Week
13 to include ground water resource
14 sustainability and conservation issues in
15 collaboration with other state agencies?

16 I know we had some discussion about
17 that.

18 MR. ANGELLE: Yeah, I think the
19 staff -- that kind of goes back to the other
20 one, where staff would look at what other
21 opportunities exist. I think we have covered
22 that one.

23 MR. FREY: Or at least dovetailing
24 into the existing environment.

25 MR. ANGELLE: Yes, sir.

1 MR. FREY: Okay. And the last item
2 under the Education component is, Should
3 Conservation seek to partner with each parish
4 to establish a single point of contact person
5 within that parish to serve as the champion
6 of the parish's ground water education and
7 conservation leader in coordination with
8 state efforts for the same? And be a leader,
9 I guess, in coordination with state efforts
10 for the same.

11 I know, and just in my familiarity,
12 and I don't -- I know with budget cuts, I'm
13 not sure if it's still that way, the Ag
14 Center at some point in time had a county
15 agent in every parish. I'm not sure that
16 that's the case anymore.

17 MR. COLVIN: Probably not.

18 MR. SPICER: They still do.

19 MR. FREY: They still have a
20 representative in every parish? So that's
21 one obvious point.

22 MR. SPICER: We operate out of 46
23 district offices, conservation districts. We
24 cut back in our fleet drastically four years
25 ago.

1 MR. WELSH: I think we have the law,
2 ground water law set up a system of local
3 commissioners that would represent the local,
4 different parts of the state. And I think
5 each parish is represented. For example, the
6 Sparta Commission has the 16 parishes in
7 north Louisiana that use that aquifer, and
8 they kind of form our source of information
9 from that -- for that part of the state. And
10 I think that was the original concept, rather
11 than take each parish individually. It was
12 kind of an aquifer-by-aquifer program.

13 MR. ANGELLE: So, perhaps, the
14 question should be should we work with -- not
15 every, not every, not every aquifer has that
16 kind of organization. Actually, most of them
17 don't.

18 MR. WELSH: That's true.

19 MR. ANGELLE: One of the things that I
20 think we did as a recommendation that was
21 made by a member here, is that we e-mail to
22 parish government every fill in the blank for
23 me on, on --

24 MR. SNELLGROVE: Right. We have a
25 water well notification e-mail distribution

1 system, if you will, whereby anyone can
2 provide their e-mail address and pick the
3 specific parish, or pick them all, for any
4 time that we receive and assign a ground
5 water resources number to, to a particular
6 form. So that they can go out and -- they
7 will get the notice, and then they can go and
8 view it, they can see where it's located,
9 what it's going to be used for, what have
10 you. So it's --

11 MR. ANGELLE: And that was a shortfall
12 that folks had. Things were going on and
13 they were unaware of it, so we -- I think we,
14 we did that.

15 MR. SNELLGROVE: Right.

16 MR. ANGELLE: So, again, my concern is
17 that sometimes that goes to parish government
18 dot org, as opposed to a particular person
19 who has the responsibility for that. Of
20 course, that's not our fault. You know, we
21 can only do what we can do.

22 But we probably ought to work, I
23 think -- like, the Keep Louisiana Beautiful
24 Program tries to establish a champion in each
25 parish, and, of course, those are volunteers,

1 that help with litter abatement. Again, it
2 would seem to me that we would have a person
3 in each parish in our system that would be
4 the person that the parish government had
5 designated -- could be a volunteer, could be
6 an employee -- that we would communicate with
7 on a regular basis, somebody, perhaps that
8 has some passion in this area, to get ground
9 water education out and visit in the schools
10 and doing something. I think you will find
11 there are some troops out there that are
12 willing to be our soldiers.

13 MR. MCKINNEY: I think that's, to me,
14 that's the best approach.

15 The downside to the, say, the Sparta
16 and the 16 parishes, even today we have
17 grumblings among some of the outlying
18 parishes, that Ruston is the center of the
19 Sparta and they are not getting their fair,
20 due share of attention. So you would think
21 that in the state there would be agent or
22 agents who could do this of some sort.

23 MR. ANGELLE: Yeah. I think most
24 parishes have some type of environmental
25 coordinator, and, you know, that could -- we

1 could ask, you know, through the Police Jury
2 Association, perhaps, that that person could
3 be given the additional duty of just
4 receiving the e-mails and kind of pumping out
5 the information that, that we think is, is
6 appropriate. I would like to think that we
7 could do that.

8 MR. SNELLGROVE: Okay.

9 MR. MAYS: I think -- do you-all -- I
10 think they -- you-all do that already, don't
11 you, Gary? I mean, we distribute it out.

12 MR. ANGELLE: Not so much education
13 material, I think, as -- I think we get you.

14 MR. MAYS: I'm sorry. I thought you
15 were talking about the water well
16 registration.

17 MR. ANGELLE: No. We use -- I'm just
18 using that by analogy.

19 MR. MAYS: Okay.

20 MR. ANGELLE: We use -- we've kind of
21 perfected it for that purpose and that has
22 helped. But I don't think we have a champion
23 who is passionate about ground water that the
24 parish government has said, You are going to
25 be our volunteer person and we are going to

1 provide you information and here is the
2 pipeline that comes from state government, we
3 are going to get you e-mails, we are going to
4 get you information, here's the website,
5 here's the links, here's what -- you know,
6 the curriculum that you can help teach. This
7 is what you ought to be talking to principals
8 in schools about.

9 MR. MCKINNEY: I serve on the Lincoln
10 Parish 4-H Advisory Board. And each year
11 they come up with a plan, some action of some
12 sort. So something of that nature with the
13 4-H or whatever would be what you are looking
14 for.

15 MR. ANGELLE: Absolutely. That's a
16 great idea.

17 MR. FREY: I think the -- I'm glad you
18 brought up the Police Jury. I made a note
19 here Police Jury and Parish Council. We know
20 they exist in every parish. And we know they
21 don't have quite the funding problems some
22 state government agency folks have, so...

23 Right, Mickey, you just pass a tax?

24 MR. MAYS: I wish.

25 MR. FREY: Okay. That really covers

1 all the bullets.

2 Did that trigger any additional -- did
3 we miss anything, any additional thoughts
4 from anyone in the audience, members of the
5 Commission?

6 We have covered the -- we have covered
7 youth, we have covered users, we have covered
8 drillers. Weathermen, do we need to approach
9 weathermen?

10 MR. ANGELLE: Suffice to say, I think
11 the state needs to have an organized effort
12 on education as part of this management plan.

13 MR. FREY: Absolutely.

14 Thank you for your participation. I'm
15 done, Mr. Chairman.

16 MR. ANGELLE: You did a good job.
17 Thank you.

18 Do you-all want to take a 10-minute
19 break? Be back at 3:15, seven minutes.

20 (Recess)

21 MR. ANGELLE: We are going to go ahead
22 and get started.

23 Mr. Commissioner, I think you have the
24 Registration item. And that item is on the
25 screen now.

1 MR. ADAMS: Mr. Chairman, as a point
2 of information, I would like to remind
3 everyone to please use your microphones. And
4 some of you may need to move a little bit
5 closer. The court reporter is doing a
6 fabulous job of transcribing everything, but
7 she's having a little bit of difficulty every
8 once in a while.

9 MR. ANGELLE: Thank you.

10 MR. ADAMS: Thank you.

11 MR. ANGELLE: Appreciate that.

12 And you are doing a great job.

13 THE COURT REPORTER: Thank you.

14 MR. ANGELLE: Appreciate it.

15 Okay. Mr. Commissioner, you have
16 Registration.

17 MR. WELSH: Yes, sir.

18 Thank you, Mr. Chairman.

19 I think, you know, that registration
20 is one of the most important things when you
21 are regulating efforts. I'm, of course, more
22 familiar with regulating the oil and gas
23 industry. Just imagine if we didn't have a,
24 a bang-up registration or permitting program
25 in the oil and gas industry. We have 230,

1 240,000 wells that have been drilled. What
2 kind of chaos would we have?

3 So I would like to -- that, that's how
4 important registration of water wells is,
5 because without good registration, without
6 good tracking, without knowing what's going
7 on, we are just, we are just shooting in the
8 dark. So, you know, this is a very important
9 program. And I think DOTD, Bo, you-all have
10 done a good job with it, and now we have it.
11 And we are, we are brainstorming is there any
12 way that we can improve it. And I think
13 that's a job of this Commission.

14 I have only five bullets to talk
15 about, and the first four address the water
16 well drillers, and the fifth one really
17 addresses the water well owners. So just
18 remember we are talking about the drillers in
19 the first four bullets and owners for the
20 last one.

21 But the first bullet, basically, it's
22 a long bullet, but here's the gist of it:
23 Should the state amend existing Louisiana
24 Administrative Code regulation for water well
25 drillers to insure that water well

1 pre-installation notification evaluation has
2 been performed and appropriate agency
3 response issued to the well owner before the
4 construction begins?

5 So is there anything that, that we
6 need to do, the state needs to do, to better
7 that process, to make it more effective?
8 Comments?

9 MR. LOEWER: Are we not at a hundred
10 percent now?

11 MR. WELSH: I'm sorry?

12 MR. LOEWER: Are we not at a hundred
13 percent now?

14 MR. SNELLGROVE: We haven't been, no,
15 sir.

16 MR. LOEWER: In other words, wells are
17 being drilled without being pre-notified?

18 MR. SNELLGROVE: Wait. Say again.

19 MR. LOEWER: Wells are being drilled
20 without notification?

21 MR. SNELLGROVE: Yes, sir.

22 MR. ANGELLE: Just like folks are
23 speeding on Interstate 10, right?

24 MR. SNELLGROVE: (Nodding head.)

25 MR. ANGELLE: So what you get, if you

1 had to use the data that you gathered, what
2 kind of compliance do you think we have now?

3 MR. SNELLGROVE: Well, in the past,
4 what we have found was about nearly 100
5 percent for industrial well users, big
6 industrial well users. Running about 40, 45
7 percent on irrigation, as far as compliance
8 goes. So, in other words, 55 percent not
9 compliant. 50 to 60 percent not compliant in
10 both irrigation and public supply.

11 We haven't had the opportunity to
12 conclude our compliance audit from 2011.

13 MR. ANGELLE: You can make that
14 statement because you can compare what the
15 drillers are filing and what you are getting?

16 MR. SNELLGROVE: Yes, sir. That's
17 exactly how it arrived.

18 We assumed 100 percent driller
19 registration --

20 MR. ANGELLE: Right.

21 MR. SNELLGROVE: -- and compared that
22 as our benchmark to what prior notifications
23 we had received and documented in our
24 database. That's how we derived those
25 numbers.

1 So to give you -- it was our hopes
2 that we would have more up-to-date data after
3 we implemented our aggressive compliance
4 audit over a two-year period to get the
5 message out, but we, unfortunately, we have
6 run into some limitations on resources and
7 what have you, and we are now focused on
8 doing a comprehensive audit for the entire
9 year of 2011 here in the next couple of
10 months to -- and that will give us a good
11 data set as to how much we have improved on
12 those two areas, irrigation and public
13 supply, in bringing the compliance, bringing
14 them closer into 100 percent. But I can tell
15 you just from experience and day-to-day
16 operations that, with confidence, that we are
17 not at a hundred percent. No where near.

18 MR. ANGELLE: Okay. So the first one
19 is, the question is -- it's a pretty long --
20 should the state -- I'm on the fourth line --
21 should the state amend the Administrative
22 Code for water well drillers to insure that
23 water well pre-installation notification
24 evaluation has been performed.

25 So what we are basically saying is,

1 is, Mr. Water Well Driller, we need you to
2 help us manage this resource. It's important
3 for you as a water well driller to have a
4 sustainable resource. And since there are
5 350 of you and 4 million people, we need you
6 to be -- and nobody can drill a well on their
7 own, I'm assuming. I mean, they have got to
8 do it with a, whatever, but that's a rare
9 situation. That we would say that a water
10 well driller shall not be allowed to drill a
11 well until he or she has evidence that the
12 proper notification evaluation has been sent
13 in to the agency and the agency has
14 acknowledged the receipt of that?

15 MR. SNELLGROVE: That's correct. That
16 would be the idea. And we believe -- well,
17 we know that we could pursue this under
18 the -- through the Louisiana Administrative
19 Code as our existing statutory authority
20 would allow us to. So, so it's --

21 MR. ANGELLE: Do we know what kind of
22 burden that would put on the industry, on the
23 drilling industry?

24 MR. SNELLGROVE: No, sir, I don't. I
25 mean, it wouldn't prohibit them from drilling

1 the well.

2 MR. ANGELLE: Right.

3 MR. SNELLGROVE: But it would be, it
4 would be somewhat of a hurdle they would
5 overcome to make sure the well owner, you
6 know, does what he has to do to get that well
7 notification into our agency and let us go
8 ahead and --

9 MR. ANGELLE: So they showed up on the
10 day to drill a well, and they don't have
11 evidence of that notification being forwarded
12 and received, there would be -- we would
13 basically make it an illegal practice to
14 allow that well to be drilled or cause that
15 well to be drilled without that information?

16 MR. SNELLGROVE: It would be -- yes,
17 sir. It would be, it would be an enforceable
18 violation of the Louisiana Administrative
19 Code.

20 MR. ANGELLE: So from a public policy
21 standpoint, when they got that call and said
22 I need to hire you, they, they -- to drill a
23 well, the first thing they would say is,
24 okay, you're going to send that form in, I
25 will come help you fill it out, you have got

1 to send that form in, you've got to get that
2 form in. And, and you can e-mail it in, you
3 can fax it, you can wire it, you could Pony
4 Express it. And then we would immediately
5 then send out a, a -- because this is only --
6 this is not where we have to have -- this is
7 pre-notification type stuff?

8 MR. SNELLGROVE: Correct.

9 MR. ANGELLE: And we could immediately
10 send an e-mail out and --

11 MR. SNELLGROVE: The way this would
12 work would be, once we have received the
13 form, we have got -- you know, there are
14 requirements placed on the agency as well --
15 we have got basically 30 days to review and
16 evaluate and make a determination. So, so
17 that's -- we have had issues in the past
18 where folks thought this lingered forever,
19 but it doesn't. It comes in and we are under
20 a time frame as well to, to get, to get to
21 the end point, which is our final
22 determination of evaluation.

23 MR. ANGELLE: For the ones that you
24 are getting, are you meeting that 30-day
25 requirement?

1 MR. SNELLGROVE: We do. The clock
2 ticks -- starts ticking for us when we
3 receive a complete form. Many times there's
4 another issue -- here's another issue.

5 A lot of times we will get, we will
6 get forms in, folks are wanting to comply,
7 but they are not quite sure how to do that.
8 So if we take 350 versus 4 million, we can
9 better educate. Each driller will become
10 very familiar with that form; they will know
11 all of the blanks and how to fill it out
12 because it will become a repetitive thing for
13 them. So we believe that the timing of this
14 should happen much more quicker, would be
15 much more efficient for both the water well
16 owner, potentially the driller, as well as
17 our own agency to be able to work through
18 this process.

19 MR. WELSH: Well, do you think, Gary,
20 that since -- apparently, you believe that we
21 have the statutory authority to require that.

22 Would it be proper to suggest that if
23 a comprehensive management plan or maybe a
24 statute was passed this year, it would
25 include language that requires Office of

1 Conservation, for example, to pass rules to
2 get -- to show or demonstrate that, you know,
3 that the proper notification has been done
4 and, and so forth, to direct us to do that in
5 a statute? Would that --

6 MR. ANGELLE: Would it be necessary?

7 MR. SPICER: Could you just go ahead
8 through administrative procedures and do
9 that.

10 MR. WELSH: I know that's, that's the
11 bottom line. Would it be any advantage in
12 your opinion of having that mentioned in a
13 statute for us to do that?

14 MR. SNELLGROVE: Well, if it was in a
15 statute, then, yeah, obviously, we wouldn't
16 have a choice. We would have -- we would be
17 required to, so...

18 But I can say this: We have already
19 started this process. We have issued a
20 potpourri announcement several months back
21 that alluded to our desires to, to implement
22 a regulation to do exactly what we are
23 discussing right now.

24 MR. WELSH: That's a regulation. I'm
25 talking about a statute.

1 MR. SNELLGROVE: Yes, sir.

2 MR. ANGELLE: Have you got any
3 feedback on that?

4 MR. SNELLGROVE: John.

5 MR. ADAMS: No, we haven't -- we
6 haven't -- we have not submitted a potpourri
7 or spoken to any legislators or anything like
8 that about proposing a statute.

9 MR. ANGELLE: No, no.

10 MR. SNELLGROVE: No, no.

11 MR. ANGELLE: He said that you have
12 already issued a potpourri --

13 MR. ADAMS: On the regulation.

14 MR. ANGELLE: On the regulation.
15 Have we got any feedback on that?

16 MR. ADAMS: None directly, no.

17 MR. ANGELLE: Okay. That begs another
18 question. How much you got indirectly?

19 MR. ADAMS: Well, we submitted that
20 potpourri item along with numerous other
21 potpourri items. So we did get tremendous
22 amount of feedback on a bunch of different
23 issues. And some of the feedback were things
24 as, as, as ambiguous as, We don't want you
25 involved in anything. So, you know, in a

1 sort of roundabout way, that does -- you
2 know, that, you know, people -- that
3 particular person didn't want us involved in
4 anything, which would include this.

5 MR. ANGELLE: Right.

6 MR. ADAMS: But no one spoke directly
7 to that point and said we think that's a bad
8 idea.

9 MR. ANGELLE: Okay. Is there a
10 drillers committee or a drillers group?

11 MR. ADAMS: There is, yes, sir.

12 MR. ANGELLE: Have we, have we talked
13 to them?

14 MR. SNELLGROVE: Yes. They have been
15 made aware of this potpourri announcement as
16 well as the subsequent amendments that were
17 passed. This item was one that we did not
18 pursue in the last amendment that we created.

19 MR. ANGELLE: What's the feedback you
20 are getting?

21 MR. SNELLGROVE: The feedback I'm
22 getting predominantly is one of either
23 indifference or, you know, I'm getting it's
24 not a bad idea. I mean, I think the
25 drillers, in essence, you know, understand

1 their resource and they depend upon it for a
2 living. And they -- and I believe that they,
3 they have a vested interest for us to do what
4 we do.

5 MR. ANGELLE: Right.

6 So we're not asking them to fill out
7 the form. We are just telling them that,
8 that it's kind of like a, a contractor that
9 goes out to build a home. He has a
10 responsibility to make sure that the building
11 permit has been issued. Not telling them you
12 have to issue a building permit. Saying
13 don't start construction until you know that
14 a building permit has been issued.

15 MR. SNELLGROVE: That's the idea.

16 MR. LOEWER: It's really not unlike
17 the electric company can't hook up a utility
18 until a sewer's in place.

19 MR. ANGELLE: Absolutely.

20 MR. LOEWER: The only problem is,
21 that, that the sewer contents belong to the
22 house owner until he wants to release them
23 into the environment.

24 So here you have a private -- public
25 oversight to a private asset. You have to be

1 careful not to outrun the law here.

2 MR. ANGELLE: Right.

3 MR. WELSH: That's pretty much like an
4 oil and gas application. You need to certify
5 you have done certain things, and, and here's
6 documentation I have done that. Then you are
7 eligible for a permit.

8 MR. LELEAUX: Some of the industrial
9 wells, they will not issue -- the DEQ
10 requires that this has to be done before they
11 can get their plat permit. Okay. And so
12 they are going to do it. The larger
13 industrial wells, the larger municipal ones,
14 they have a civil engineer.

15 MR. ANGELLE: Yeah, we have got a
16 hundred percent compliance on those folks.

17 MR. LELEAUX: But you're talking about
18 a totally different category. And the
19 biggest problem is the domestic drillers.
20 When someone is building a house, and at the
21 last minute he says I need a water well. You
22 know, and compliance of that is probably the
23 biggest issue.

24 MR. ANGELLE: Right. Right.

25 But if it's against the law for the

1 well owner to -- if the well owner is
2 required to notify us, and he's not, then
3 we're doing everybody a favor -- we're doing
4 the resource a favor, we're do the homeowner
5 a favor, we're doing -- long-term we're doing
6 the well driller a favor by using that person
7 to say, well, time out, you can't do this
8 until you get this form.

9 Do you agree with that, or no?

10 MR. LELEAUX: I agree with it for, you
11 know, the type of work that I do in the
12 industrial, municipal.

13 MR. ANGELLE: Right.

14 MR. LELEAUX: It becomes a domestic
15 problem. You know, domestic well. In other
16 words, the power company doesn't hook up your
17 utilities until you have it in some places.
18 Some parishes demand that you have certain
19 regulations about your sewer plant and
20 whatnot.

21 MR. ANGELLE: Right.

22 MR. LELEAUX: And, I mean, but, you
23 know, again, the water well driller having to
24 comply with it on somebody else's property,
25 that's an issue.

1 MR. SNELLGROVE: Well, let me speak to
2 the domestic side.

3 This regulation would not be
4 applicable to the domestic because they are
5 not required to give us prior notification.
6 This is only focused on the well uses that
7 would require us to evaluate. In other
8 words, the non-exempt well.

9 MR. ANGELLE: Irrigation, public
10 supply, industrial?

11 MR. WELSH: Right.

12 MR. SNELLGROVE: That's it.

13 MR. ANGELLE: So...

14 MR. LELEAUX: We are doing that now.
15 We are helping the agricultural well drillers
16 -- I mean, the owners fill out these forms
17 before we do it.

18 MR. ANGELLE: Right.

19 MR. LELEAUX: Not every contractor is
20 doing that, but that's what the idea is. We
21 have been told that we need to help.

22 MR. ANGELLE: Right.

23 If I'm, if I'm in the agriculture
24 business, I have an absolute need to make
25 sure that water is a sustainable resource in

1 my area. And as much as I need my well done
2 today, but there's a prior notification
3 requirement, and I need done what I need to
4 get done today, tomorrow, or, like, two years
5 from now when my neighbor doesn't follow that
6 same prior notification and a well is drilled
7 that impacts me, I'm going to say what's
8 going on here. Why do you-all allow that.
9 And so it's really for everybody's protection
10 in my mind, right? I mean, you would agree?

11 MR. LELEAUX: And, again, your rules
12 say that if it's an emergency type situation
13 or a drought, you can file it, if it's an
14 exact well that's being replaced in the same
15 aquifer under certain conditions.

16 MR. ANGELLE: Sure. Right.

17 MR. LELEAUX: I say, you know, it's
18 not a big issue for the larger contractors.
19 It's for the smaller ones. And I didn't
20 realize you didn't require that.

21 MR. WELSH: I guess to focus, again,
22 on the question, you know, is there anything
23 that the state needs to do to beef up what we
24 have now to make it work better, or is it
25 working well now? I mean, that's where we --

1 where I think we are trying to go.

2 MR. ANGELLE: I think we need to beef
3 it up. I think we need to use our partners
4 who are our drillers to get this information
5 so that we can make sure that not only are we
6 managing the resource, but we are, actually,
7 protecting other water well drillers -- I
8 mean, water well owners who may have complied
9 with the law and somebody is getting ready to
10 drill a water well that's going to have a
11 negative impact on them, and we need to do
12 that.

13 I mean, what's the worst thing you
14 could do is spend 25, 30,000, 50,000 to drill
15 a water well that you didn't give us prior
16 notification and it ends up having a negative
17 impact on your owners, and we say, sorry,
18 Boudreaux and Thibodeaux, you didn't get
19 permission, and the law says you've got to P
20 and A the well. I don't want to go to that
21 meeting.

22 MR. WELSH: Well, that's, you know,
23 what we are discussing. Do the Commissioners
24 have any comment on this? Do you agree with
25 the concept?

1 MR. FREY: I have a question for the
2 staff. I'm having a hard time understanding
3 why it's only 45 percent for irrigation and
4 public supply wells. That -- do you have
5 any -- I mean, what --

6 MR. SNELLGROVE: Well, that's where it
7 was. I'm hopeful that it's improved. We are
8 going to find that out when we complete 2011
9 compliance audit statistics, which, again,
10 I'm hoping that we will have that in the next
11 six to eight weeks, we will be done with
12 that.

13 The question as to why. I think some
14 of it is what Mr. Harold was just explaining
15 about other agencies requiring that they go
16 through a compliance -- you know, that they
17 comply with all state, all applicable state
18 regs, yadda, yadda. And I believe that's
19 part of it.

20 And we have partnered with, with the
21 NRCS with -- for the agricultural side of
22 things, because what NRCS does, is they will
23 provide funding, you know, for certain
24 projects and what have you. And they will
25 not issue, they will not issue that funding

1 until they know that compliance with all
2 state regs has occurred. And, you know,
3 before 2008 or so, we weren't on their radar.
4 We are now. And it is working.

5 They have been the police for us on
6 certain aspects of agriculture or irrigation
7 well installations. And they, they won't
8 issue and they will help the well owner to
9 get the paperwork into us. And Jeff knows,
10 because he, he sees the paperwork come in,
11 and it's been a very effective effort
12 collaborating with them on helping with the
13 irrigation wells.

14 But they are not -- that's a domain
15 within a broader domain of, of well of the
16 irrigation community. Not all of them are
17 seeking funding through the NRCS. So...

18 We do what we can to communicate
19 through Louisiana Ag Center, which we have
20 done, with folks partnering with Agriculture
21 and Forestry. We have provided materials and
22 what have you. We have tried to hit the
23 ground and get out there and get the message
24 out. That was part of what our public ed and
25 outreach effort was focused on, was

1 regulatory compliance.

2 So all I can say is, is right now I
3 don't -- I really don't know why the
4 agricultural community has not responded.
5 Maybe it's because they, you know, they still
6 don't know we exist. But, you know, we are
7 doing the best we can to get the message out
8 right now.

9 But I'm very confident that the
10 solution so that problem is through the
11 driller. And if we do this, I believe
12 that -- well, it's just -- it's going to
13 correct the problem.

14 MR. COLVIN: Gary, I can vouch for
15 this. I can tell you, you know, when this
16 process first started, the talk of a
17 notification or whatever, whatever, if I as a
18 farmer got ready to drill a well was -- it
19 never was mentioned. And now most
20 drillers -- and I will say most -- that's the
21 first thing they talk to you about.

22 So I think that you are going to find
23 that, you know, the ag sector is just a
24 little bit more hesitant about coming around
25 because of regulations and everything else, a

1 lot of stuff they have to deal with. But on
2 the same token, I think it will improve, and
3 I think you will probably see that.

4 And it's going to be done, just like
5 you said, through the driller, because the
6 educational tool that that landowner is going
7 to get, in all honesty, is not going to be
8 from you or from us or from the state. It's
9 going to be from the driller whenever I call
10 my driller and say, I need to drill a well up
11 here to water my field, he's going to say --
12 then that's when he's going to say, well,
13 this is some of the stuff we need to do so we
14 can get the process rolling.

15 MR. ANGELLE: Yeah, he's going to
16 first of all say, Let me tell you what them
17 SOBs in Baton Rouge did. And then we are
18 going to get to it.

19 MR. MCKINNEY: Let me ask a question,
20 Gary.

21 MR. SNELLGROVE: Yes, sir.

22 MR. MCKINNEY: Explain to me again how
23 you determined this 40 to 45 percent. What
24 are you benchmarking to get that?

25 MR. SNELLGROVE: Okay. The state --

1 every well that's drilled in the state is
2 required to be registered by the water well
3 driller.

4 MR. MCKINNEY: Okay.

5 MR. SNELLGROVE: So the assumption is,
6 is that that database is, is, is --

7 MR. ANGELLE: Complete.

8 MR. SNELLGROVE: -- complete and
9 accurate.

10 MR. MCKINNEY: Right.

11 MR. SNELLGROVE: So using that
12 information as our base, we compare for the
13 time period where our rules are applicable,
14 which was from 2001 to current. So we looked
15 back and said, okay, for all wells of a
16 specific type, public supply, that were
17 drilled and still, and still active, or, you
18 know, not plugged and abandoned, we did a
19 comparison. We know, we know through DOTD's
20 database who was out there for that time
21 period, and we had our own database where we
22 compared what we had as far as entries where
23 we had received prior notification, and we
24 just, we just did a comparison, a
25 well-for-well comparison.

1 MR. MCKINNEY: Okay. And no, and no
2 idea as to the excuse other than what we have
3 been talking about here? I mean, you didn't
4 do a follow-up or you didn't knock on the
5 door and say, hey?

6 MR. SNELLGROVE: Oh, yes, we did.
7 Yeah. We sent out --

8 MR. ANGELLE: Couple of thousand.

9 MR. SNELLGROVE: -- couple of
10 thousand -- over, yes, over 2000, almost near
11 3000 enforcement actions against all
12 violators.

13 MR. MCKINNEY: And then?

14 MR. SNELLGROVE: And then we got, we
15 got responses.

16 MR. ANGELLE: We got some phone calls.

17 MR. SNELLGROVE: The Secretary got
18 phone calls, yeah, and the fun started.

19 And we're fixing to do that again. In
20 fact, that's one of the items on here, is
21 whether or not we should continue.

22 MR. ANGELLE: Again, so, so the well
23 owner is the person that we want to
24 communicate with from time to time, if
25 there's a problem. The well driller is

1 certainly important to us. But the well
2 owner is, is the person who we are regulating
3 in this instance. It's important that we
4 have his information. It's important that
5 we, we know how to contact that person. And
6 I realize that things change, but you have
7 got to start somewhere.

8 And so, you know, it was, it was a
9 seismic shift in management to go look at the
10 DOTD base and see where water well drillers
11 filed their paperwork but well owners had not
12 filed their paperwork. So that means we had
13 over 2000 instances where we didn't know. So
14 when we doing evaluations, we didn't know
15 that these, these wells existed, other than
16 DOTD having a database saying that a well --
17 a driller said that he drilled it.

18 And, you know, again, part of the
19 evaluation, is -- I think somebody said
20 this -- having the best data helps to make
21 good management decisions.

22 So, you know, again, send those
23 letters out, not intending to cause people to
24 pay a fine. Just say, look, you have got to
25 get this done. You have got to let us know.

1 You know, piece by piece. You know, I got
2 calls, I didn't know I did anything wrong.
3 Look, don't worry, we will be okay; just get
4 the paperwork filled in and nobody is coming
5 over there. No water police are not showing
6 up, and it's going to be good and just send
7 it in. And people did that. Okay.

8 But it doesn't make sense for us to go
9 through another 10 years and then do that
10 again. And so what we're trying to say is --
11 and I used this example I think before -- in
12 Louisiana we don't regulate people who give
13 money to candidates who run for office,
14 because there are 4 million people live in
15 the state. We regulate the candidate. And
16 we make the candidate file a report. And he
17 has to disclose who he got his money from,
18 because there are only 500 candidates as
19 opposed to 4 million people, as an example.
20 Just seems like this is the way to do it.

21 MR. MILLER: Mr. Commissioner.

22 There's one other thing. The ones
23 that are public supply wells, actually, under
24 the Safe Drinking Water Act, the state has
25 promised them a program. And the DHH,

1 actually, has to approve that from a sanitary
2 perspective. So another avenue may be to try
3 to see that they, in their communications
4 when they are doing their approvals as the
5 Health Department of that well being
6 installed, that they, again, call attention
7 about the need for coming in with the
8 paperwork to DNR.

9 MR. ANGELLE: But the public supply
10 know. They, you know, hire a engineer.
11 This, this, you know, is major, major
12 investment. You know, it's, it's a little
13 bit more sophisticated of a transaction. So,
14 so we don't have problems there.

15 MR. MILLER: I guess, then, I
16 misunderstood. I thought the 40 percent was
17 public supply and --

18 MR. ANGELLE: Irrigation.

19 MR. MILLER: -- irrigation.

20 MR. SNELLGROVE: We did. But public
21 supply is a big category. It's the big
22 municipal suppliers, et cetera, but it's also
23 the mom and pop gas stations, and, you know,
24 some of those. And, and that's a large
25 portion of the non-compliant, is the smaller

1 public supply.

2 MR. MILLER: But those are regulated
3 under DHH under the Safe Drinking Water.

4 MR. SNELLGROVE: I agree. Actually,
5 DHH has assisted us once that, you know, we
6 got active with all of this. And what I have
7 been seeing is that they will cc. They will
8 send a letter to the well applicant,
9 reminding them that they need to, you know,
10 they need to check with DNR to see, you know.
11 So they have been, they have been helpful in
12 that regard, too.

13 Like I said, I'm very curious to see
14 what our 2011 data looks like because I think
15 we have done a really good job to, to do some
16 things to effect a change for both public
17 supply. Because when we partnered with LRWA,
18 we traveled the state last year, and got our
19 hands on with the operators.

20 MR. MILLER: And that's fine. That's
21 fine.

22 Another venue for discussing is the
23 Louisiana Conference on Water and Wastewater.
24 That's held -- it's an annual conference, and
25 you have got a lot from the public water

1 supply side of things. They have to be
2 licensed again under DHH as operators of the
3 water supply. Again, it's another venue to
4 make sure that the licensed operators from
5 the supply side realize that when you are
6 dealing with a new well, they have an
7 obligation to DNR as far as pre-notification
8 is concerned.

9 MR. SNELLGROVE: Appreciate that.

10 MR. MILLER: So you have another
11 opportunity.

12 MR. ANGELLE: Jeff, do you have
13 something?

14 MR. DUHE: Actually, Mr. Chairman, my
15 name is Bruce Duhe. And I'm the district
16 manager of Layne Christensen in Baton Rouge,
17 and I would like to speak to Mr. Welsh's
18 comment about more teeth.

19 Of course, municipalities, industrial,
20 are normal customers, they understand this.
21 And I'm a big fan of the 60 day
22 pre-notification. I think it's done a
23 wonderful job and it's going to continue to
24 do so.

25 The problem I have been seeing for the

1 last two years, especially in New Orleans,
2 there's been a lot of federal funding, a lot
3 of work going on over there. The Army Corp
4 of Engineers pump stations, a lot of wells
5 being drilled for cooling water to cool the
6 bearings in the big turbine pumps.

7 Where we get into it is no one wants
8 to take responsibility to provide the
9 information or sign the permit. The owner, a
10 lot of times, will not let me sign the
11 permit. There's always a discrepancy about
12 who owns it.

13 Last year and a half ago, Jefferson
14 Parish and Plaquemine were fighting over who
15 owned the pump station and who was going to
16 sign the permit.

17 So I get into a real bind with that,
18 and I would like more teeth. They are not
19 scared of me when I tell them, look, you have
20 got to have this. They will be scared of you
21 guys, see. If I could beat them over the
22 head with it, I would do it.

23 MR. ANGELLE: So in that example, you
24 would be able to tell Jefferson Parish folks
25 and Plaquemines Parish in this instance,

1 unless you get this thing pre-notified, I
2 can't drill your well.

3 MR. DUHE: And that's the first --

4 MR. ANGELLE: And that would force a
5 decision on who's the owner and who's the
6 responsible party.

7 MR. DUHE: It's the first thing I tell
8 them. And now --

9 MR. ANGELLE: So bluff.

10 MR. DUHE: -- we submit a proposal.
11 I'm sending the notification form filled out
12 and tell them that you fill in the rest of
13 this, you know, who's the owner or the
14 contact. Okay.

15 But the out-of-state contractors that
16 have been coming in, and there's a bunch of
17 them, they have a deadline. They are a
18 general contractor. They might have 30 or 40
19 different subs working on bigger parts of a
20 project all at the same time.

21 MR. ANGELLE: Yeah.

22 MR. DUHE: Okay. They will slot the
23 well in there, say, between March and April.
24 Okay. But -- and if you plan for that, you
25 can do it and get notification. If they call

1 me up and say they want it now, hey, it's 60
2 days, we don't give -- we don't care about
3 that, you sign the contract and you have to
4 be here. And, get this, \$3000 a day
5 liquidated damages is the norm on those types
6 of contracts. Okay. If you hold up another
7 contractor.

8 So this causes a lot of angst, you
9 know, frustration, and it puts us at odds
10 with engineers who are not really civil
11 engineers that do things for, for
12 municipalities and public suppliers.

13 MR. ANGELLE: No, no, no. Current
14 policy -- under current policy, you are not
15 doing anything that you shouldn't be doing by
16 drilling that well without pre-notification,
17 right?

18 MR. DUHE: Oh, I never drill a well
19 without pre-notification.

20 MR. ANGELLE: No. You may not. But
21 you could, and you wouldn't be breaking the
22 law.

23 MR. JONES: That's right.

24 MR. SNELLGROVE: That's correct.

25 MR. LELEAUX: That's right. Penalty

1 on the owner.

2 MR. ANGELLE: While you, while you may
3 be, while you may be subscribing to a higher
4 standard, they got -- when you say no, that
5 you can't do it, they got somebody coming in
6 behind you saying we will do it.

7 MR. LELEAUX: That's correct.

8 MR. ANGELLE: And they're not breaking
9 the law. They're not breaking the law.

10 MR. SNELLGROVE: So what this would
11 do, it would create a level playing field.
12 It would create a level playing field.
13 Because then you, you know, you would be then
14 required not to drill that well.

15 MR. ANGELLE: Right.

16 So when that driller would send that
17 information in to DOTD on, on -- to you-all
18 on that, on that part, and you didn't have a
19 pre-notification. And now you got this rule.
20 You don't have to go chase the landowner.
21 You've got a driller who makes a living doing
22 this saying, You violated this law. You
23 didn't have to go pre-notification. Our
24 rules require you have it.

25 MR. SNELLGROVE: And I would bet that

1 we wouldn't -- it wouldn't even get to that
2 point because we would probably get a phone
3 call from competition saying I just -- I'm
4 complying, but yet they're there, they're set
5 up and drilling. I would expect that that
6 would be -- that's where this would go.

7 MR. WELSH: This discussion kind of
8 brings home the first question of ours, my
9 concern whether we need in the law? Do we
10 have the law? Do we have the authority under
11 existing law to issue rules that are
12 enforceable, and when we get sued, we are
13 going to win? I mean, I was a regulator. I
14 like to have, you know, it covered.

15 MR. SNELLGROVE: I appreciate that.

16 MR. ANGELLE: As a regulator, you want
17 the legislature to pass a law so he can say I
18 didn't make up this. So --

19 MR. WELSH: I might take that. I
20 might have to say that.

21 MR. ANGELLE: No, no. I understand.

22 MR. BURLAND: Well, what do you do
23 about the impairment of the existing
24 contract? You just wait until they expire,
25 an active provision like that, and then all

1 future contracts? Because I still see the
2 conflict between, you know, the law saying
3 the driller can't drill but the contract says
4 you must.

5 MR. ANGELLE: Well, at that point in
6 time, you take some education, if he comes --
7 the driller, driller will know that he can't
8 drill this until, until -- you know, the
9 \$3000 ought to start -- the liquidated
10 damages ought to start the day after the
11 permit is issued, you know, because --

12 MR. BURLAND: It's not so much the
13 driller there, it's the driller's customer,
14 the client.

15 MR. ANGELLE: Exactly. But you
16 educate the client through, through the
17 driller.

18 Just like when a person running for
19 office, somebody says, look, I think you're
20 doing a good job, I want to contribute to
21 your campaign, I want to give you a check for
22 \$2,500. Oh, no. Look, I'm in this category.
23 The maximum contribution I can take is a
24 thousand. Okay. You know, if you're
25 statewide.

1 So, I mean, that's how we educated
2 donors, through candidates. Because we hold
3 the candidates liable if you take -- you know
4 better. You can teach the class.

5 MR. BURLAND: I have. I don't want to
6 teach one today.

7 MR. WELSH: Okay.

8 MR. COLVIN: What about drought relief
9 wells, where will they fall into this
10 regulation or whatever the law is talking
11 about?

12 MR. SPICER: They are exempt from
13 this.

14 MR. COLVIN: Okay.

15 MR. SNELLGROVE: They are exempt.
16 They are exempt as far as installation during
17 the drought event. After the drought is no
18 longer there as a documented occurrence, then
19 the well owner is required to provide to us
20 prior notification before he begins to use a
21 well for any other purpose.

22 We have -- we, by the statutory law,
23 were required to provide a drought relief
24 emergency plan, which we did, and it's been
25 authorized through the Commissioner. And so

1 we have, we have a procedure that goes --
2 that follows a drought relief to the point
3 where it comes, you know, they drill it, we
4 get notice, then, then we evaluate, and then
5 we close it out that way. So they, they are
6 only temporarily non-exempt -- I mean,
7 temporarily exempt, until such time as the
8 drought has abated. And then they are
9 required to provide the notification, 60
10 days, the whole nine yards.

11 MR. WELSH: Anything else on this
12 first bullet?

13 MR. MCKINNEY: Let me ask you a
14 question.

15 On domestic wells inside a city
16 corporation limits, are those requirements
17 the same as outside, with the exception of
18 maybe the city would require some
19 specifications of some sort?

20 MR. SNELLGROVE: The state law, DNR's
21 law, Conservation's laws and regs, are if
22 it's domestic, it's irregardless of its
23 location.

24 MR. ANGELLE: No distinction.
25 Good job.

1 MR. MCKINNEY: Okay.

2 MR. SNELLGROVE: Yes, sir.

3 MR. SPICER: I have a question.

4 Gary, is there anything you can do to
5 assist the applicant so this 60-day period or
6 30-day period has all the information you
7 really need? You said that there's quite a
8 few that are incomplete. So is there
9 anything we can do to help them?

10 MR. SNELLGROVE: Well, certainly. I
11 mean, what we do now as a practice, we get it
12 in, we pick up the phone and call the
13 individual who provided the form and you
14 walk, you coach them through the process to
15 get the data that you need to be able to move
16 forward.

17 MR. ANGELLE: The reality of it all is
18 that the well owner probably is going to fill
19 out this one time in his life, maybe twice.
20 So he's learning the whole -- whereas, the
21 driller, you -- again, the driller, if you
22 put the emphasis on him, as Gary said
23 earlier, before you know it, we have got a
24 whole group of people who are experts at
25 filling this out. And they get it quicker,

1 we get it quicker, saves taxpayer dollars on
2 going back and forth with, with an
3 incompetent owner, well owner, regarding this
4 issue.

5 MR. SNELLGROVE: Correct.

6 So, yeah, this could solve several,
7 several issues, inefficiencies, and certainly
8 streamline for regulating, you know, the way
9 that we do for registration.

10 MR. SPICER: Thank you.

11 MR. ADAMS: As an addition, as a point
12 of information on, on your question, Mr.
13 Spicer, the Commissioner's also signed a, a
14 guidance statement basically stating -- and
15 we have also put it in the form of a
16 regulation -- stating that should we complete
17 our evaluation prior to the 60-day process,
18 the driller is allowed to go ahead and begin
19 construction on the well as soon as he
20 receives our evaluation. So they don't have
21 to wait the full 60 days. As soon as we
22 complete our evaluation, they are allowed to
23 go ahead and commence construction
24 immediately.

25 MR. SPICER: Well, I was just

1 concerned about having to send it back and
2 forth, because that eats up a lot of time.
3 We used to have this same issue with coastal
4 zone permits, very serious issue, years ago.

5 MR. ANGELLE: Did you solve that?

6 MR. SPICER: Yeah.

7 MR. ANGELLE: Can you say -- can you
8 tell the audience why that happened.

9 MR. SPICER: Yes, they regulated.

10 MR. ANGELLE: Let's move on to the
11 second bullet. We are still talking about
12 water well driller -- the water well drilling
13 community. Are there any other ways that the
14 water well drilling community could be
15 utilized to obtain 100 percent registration
16 of pre-installation notice compliance?

17 So that's assuming the drilling
18 community does things. I guess, maybe you
19 would want to come back and tell us what you
20 do. And then is there anything else that,
21 that you could think of ways you could
22 enhance your part in insuring 100 percent
23 compliance. The state does things, but we
24 are asking specifically the drilling
25 community.

1 MR. LELEAUX: The biggest problem is
2 water well contractors were not responsible
3 for it. So they weren't going to be
4 penalized. It's the owner. So several of
5 these guys, they only want to fill out the
6 only documentation that they have to do. So
7 they did that. They knew they couldn't get
8 another license next year unless they
9 registered all their wells, but they didn't
10 have to do this compliance. If you issue it,
11 it's not a problem for the type of wells I
12 do, municipal, industrial and whatever. I
13 don't see it's a big, big issue. They know
14 how to do it. Every domestic or agricultural
15 driller knows how to do it now. And he's
16 been telling the owner he has to have it
17 done. Some of them are stubborn owners. You
18 know, I'm not doing it unless somebody tells
19 me I have to do it. When you send that
20 letter saying that you are going to fine them
21 \$750, they will come asking for help. I
22 promise you.

23 MR. ANGELLE: Yeah.

24 MR. WELSH: Is there only one water
25 well drillers association in the state?

1 MR. LELEAUX: Yes, sir.

2 MR. WELSH: And do you think most of
3 the water well drillers are members of your
4 association?

5 MR. LELEAUX: They have to be if they
6 are going to get their continuing education.
7 They have to belong to our association to get
8 that. If they don't, and there's no other
9 place to get their continuing education. If
10 they are a licensed water well driller, yes,
11 sir, they do belong to Louisiana Ground Water
12 Association, or they are, they are going to
13 get their continuing education some place
14 else.

15 MR. ANGELLE: We have the name and
16 address of every licensed driller. We have a
17 database.

18 MR. WELSH: All right. I think that's
19 important that we do have almost all the
20 names. I mean, it's like an oil and gas
21 association, they are used to disseminate
22 information that we have, to put things on
23 their mailing list, and things like that,
24 so... And you have training or you have
25 periodic meetings to educate your members and

1 so forth?

2 MR. LELEAUX: When we have our
3 continuing education, LDNR's going to be
4 there to go over these forms and fill them
5 out. And the first time when they told them
6 about it, you know, this is going to be in
7 2000, when I was at that meeting, it was kind
8 of like, well, who is going to be responsible
9 for it? Then why are you telling us.

10 So if you are going to issue and you
11 say these guys responsible, you need to be at
12 that meeting to tell it to the guys to their
13 face. And if you don't do it, you are not
14 going to get your license.

15 MR. WELSH: Well, Commissioners, do
16 you-all have any ideas what the drilling
17 community can do to comply with this?

18 MR. MCKINNEY: No, not that issue. I
19 have another point. Go ahead.

20 MR. MILLER: I think it's important to
21 have a level playing field, so whatever makes
22 it a level playing field is what I would
23 suggest.

24 MR. WELSH: You have something?

25 MR. MCKINNEY: I have another comment.

1 There's one component part of this
2 that I think we are overlooking, and that is
3 in the case of the New Orleans situation.
4 You know, you've got the super, you've got
5 the engineer waking up on Monday morning and
6 says, oh, look, I need a well here by the end
7 of the week. You know, I mean, he should
8 have scheduled that two months prior or
9 whatever. And I think that is probably what
10 you are coming up against. And that is a
11 factor that you will never have any control
12 over. I mean, that's just the beast. That's
13 part of the business.

14 MR. LELEAUX: The question -- I mean,
15 this is just general data about the
16 information. The owner doesn't have to sign
17 it. The contractor should be able to sign
18 it. Anybody that can provide that
19 information on behalf of the owner, whether
20 it's Jefferson Parish or whatever, you know.
21 But your form says the owner has to sign it.
22 That's an issue for these parishes.

23 MR. MCKINNEY: That's a good, that's a
24 good point.

25 MR. LELEAUX: If the contractor can

1 sign it, and that's probably what you are
2 going to have to do, to say I'm sending this
3 in in behalf of this owner.

4 MR. ANGELLE: Well, I hear you. But,
5 but there's something about the owner, who is
6 the person that is getting the right from the
7 state to be able to have this well bored and
8 to have this infrastructure. I can see two
9 years later, well, I didn't tell him to sign
10 it. I didn't authorize him to sign this.

11 So I think we are getting into, into
12 some weeds here. I think what we need to do
13 is gather with the drilling community, tell
14 them what we think we need for all of us, and
15 get it.

16 But you are right, Mr. Ted. You know,
17 there's always going to be an ally. You can
18 put, on I-49, you know, from Lafayette to, to
19 Shreveport, all the troopers you want.
20 There's going to be somebody who is going to
21 go over the posted speed limit.

22 But if we go from 45 percent
23 compliance to 95 percent compliance or 90
24 percent, of whatever it is, then job well
25 done. We will come back and plow -- we will

1 get those weeds a little later.

2 MR. LELEAUX: I'm providing that
3 information on the well, water well, for the
4 owner when I fill out the registration. I
5 fill out the registration, I tell you all
6 about it, tell you who the owner is, and I
7 sign it and say --

8 MR. ANGELLE: Yeah, but that's for --
9 we allow you to do that for domestic well,
10 right?

11 MR. LELEAUX: No, no. That's for
12 every water well that's being drilled. In
13 other words, that's the state registration.
14 And we've been doing it since 1985.

15 But the form that your -- the
16 notification form, it's always an issue. You
17 want the owner to sign it. Getting that
18 owner to sign it is sometimes -- it might be
19 several people own that property.

20 MR. ANGELLE: Got you. Okay.

21 MR. WELSH: Bo, you had something?

22 MR. BOLOURCHI: Yes.

23 Bruce.

24 MR. DUHE: Yes, sir.

25 MR. BOLOURCHI: Who is the owner in

1 your mind? Is it, okay, the landowner or the
2 well owner?

3 MR. DUHE: Oh, the well owner,
4 certainly.

5 MR. BOLOURCHI: Well owner. That
6 could be a contractor from Massachusetts.

7 MR. DUHE: It could be.

8 MR. BOLOURCHI: Doesn't know anything
9 about the rule.

10 MR. DUHE: Right. Right. And the
11 general contractor --

12 MR. BOLOURCHI: So what difference
13 does it make? You can fill it in. Who pays
14 you?

15 MR. DUHE: Oh, the prime contractor.
16 I'm speaking of a specific case.

17 MR. BOLOURCHI: Exactly.

18 What we used to do with the watering
19 wells, landowner says, I didn't need those
20 wells, that's not mine, that's the
21 contractor. So those things, in my opinion,
22 those forms can be sent in under the name of
23 the person or company that pays you.

24 MR. DUHE: Well, that would be fine.

25 MR. BOLOURCHI: What's wrong with

1 that? He's the owner.

2 MR. LELEAUX: It might be the Corp of
3 Engineers, though.

4 MR. BOLOURCHI: Whoever. Whoever pays
5 you. You know who you signed the contract
6 with.

7 MR. DUHE: Yes, right.

8 MR. LELEAUX: He should be the
9 contact.

10 MR. BOLOURCHI: In my opinion, he
11 should be the one signing that pre-drilling
12 form. Okay. And just send it in. Because
13 the purpose of that is, for LDNR to check it
14 to see if that impacts anybody nearby. So
15 what difference does it make who the owner
16 shows there? The registration form should
17 have the correct name.

18 MR. DUHE: Right.

19 MR. BOLOURCHI: That should resolve
20 your issue.

21 MR. DUHE: And in these cases where
22 the prime contractor does it, that would put
23 the heat on him to get the owner.

24 MR. BOLOURCHI: There's no different
25 than the Corp of Engineers de-watering wells.

1 There's hundreds of them. And every time
2 there's another contractor. So finally, just
3 put the name of the contractor. And you know
4 what the Corp says when they go for plugging?
5 Oh, they not our wells. Say we don't require
6 that the de-watering wells is ready for
7 plugging. Thank you.

8 MR. WELSH: Okay. Thank you, Bo.

9 We will move on. Third bullet. This
10 is really a question to the state. And, I
11 guess, Mr. Snellgrove, you mean the state
12 DNR? Should the state focus resources to
13 implement integration of the water well
14 driller registration and the well owner
15 notification database, you know, into one
16 system? I mean, is that, is that a question
17 to ourselves?

18 MR. SNELLGROVE: Well, state being
19 loosely as our agency and/or a higher order
20 because, you know, to do this is going to
21 cost some, some money. There's going to be
22 some, there's going to need to be some
23 allocation of funds. So we have already
24 blueprinted this process. And, you know, we,
25 we have an idea of what we need to do to make

1 it happen, but we didn't have the funding to
2 implement it. So whether that be an
3 appropriation matter or an in-house internal
4 DNR/Office of Conservation issue, I'm not
5 aware of where it would come from, but that's
6 where, that's why I use the word "state."

7 MR. WELSH: Well, we have, you know,
8 we have a process to get money for different
9 things, and it's going to have to be triaged,
10 if you will, with everything else. And
11 whether that's -- I mean, we can push it.
12 I'd suggest we do push it, you know, and
13 throw it out there.

14 And, I mean, does the Commissioners
15 have any ideas? I mean, does that -- would
16 that be a good idea to merge the water well
17 driller database and the owners? I think it
18 would.

19 MR. LOEWER: What's on the
20 notification that can't be on the
21 registration?

22 MR. SNELLGROVE: Volume, rate,
23 production information.

24 MR. LOEWER: Why can't it be?

25 MR. SNELLGROVE: It's just essentially

1 what the difference between the two is. Now,
2 there could be more discrepancies in what was
3 proposed to be the, say, the lat/long, the
4 location of the well, versus the actual that
5 was -- that the driller reported in his --
6 when he installed it. That wouldn't be
7 uncommon, because on the front end you're
8 saying, yeah, I think it's going to be
9 possible in here, getting you in the
10 ballpark. And then when you actually drill
11 it, the driller may say, well, I can't back
12 my rig up in that specific location, I have
13 to move it over a little bit over to the left
14 or right or whatever. I mean, there may be
15 some discrepancies in their.

16 But the idea was -- the blueprint was
17 not to, say, eliminate one or the other. It
18 was to have -- basically have them all under
19 the same database and to have all that
20 information in a manner that could be sorted,
21 filtered, used and queried and reports to be
22 generated from and to do the statistics that
23 we do so painstakingly now with two different
24 systems. Whenever we do these audits we
25 talked about, it takes a lot of effort and

1 manpower, resources, to do this because we
2 are having to, to create two different
3 spreadsheets and then merge them together,
4 and it's just a mess.

5 So, we know -- we already have
6 investigated this possibility, again, and we
7 understand and our contractor understands
8 what needs to happen. We just, we just
9 didn't have the funding to implement it.

10 So, I guess the question here is
11 whether or not it's valued, as you as the
12 Commission. I value it. I see the benefit
13 in it. But with limited resources, and we
14 have to pick and choose, we're going to
15 educate, we're going to do this, that and the
16 other. Then at some point we are going to
17 have to look at all of these wants and
18 prioritize and say this is a greater want or
19 need than this, and, and, you know, come
20 together under a master plan to, to
21 implement.

22 MR. WELSH: Well, I say, again,
23 there's a budget process that we go through,
24 and we will have to push it. I mean, I feel
25 strongly that it would be a good thing.

1 Secretary would, I guess, you know, for this
2 Department, be the ultimate money manager, so
3 to speak. And just have to get it through
4 the process.

5 MR. MILLER: I was just going to say,
6 I was going to kind of echo the same
7 comments. I know we have done some of that
8 at the DEQ. Because if you can spend the
9 effort up front to get that system merged
10 where you can do your auditing
11 automatically -- I mean, your audit -- you
12 are going to save the time that you would use
13 by going through those. We are going through
14 a lot of efforts right now to try to do as
15 much online as possible; putting permit
16 applications online. I think it will bear
17 good benefits to spend that effort up front
18 merging these systems so that electronically
19 you can do a lot of things that, otherwise,
20 you would have had to have manually done with
21 a lot of hours spent doing that. You would
22 be better able to focus your attention and
23 your manpower.

24 MR. WELSH: Okay.

25 MR. MAYS: Mr. Commissioner, what

1 happens in the change of ownership? Was
2 there any --

3 MR. WELSH: Change of ownership? I
4 mean, that needs to be tracked.

5 MR. MAYS: Somebody supposed -- I
6 mean, the land sells, and there's a new owner
7 of the well and the land. Is anybody
8 under --

9 MR. SNELLGROVE: There's an
10 obligation.

11 MR. MAYS: -- obligation to send that
12 in?

13 MR. SNELLGROVE: Yes, sir. Actually,
14 both under Title 56, which is the former DOTD
15 requirements, as well as on DNR's regulations
16 under Title 43, there change of information,
17 change of ownership. We actually have a form
18 that, that would be initiated by either the
19 new owner or the existing owner -- I mean,
20 the former owner -- to, to recognize that
21 change. So that the database can be updated
22 and, and, you know, with the new location of
23 the new owner so we can maintain some
24 regulatory authority, I guess, in that sense.
25 We know who to find or who to go to, but it's

1 in -- it's on the books. It's there.

2 MR. WELSH: I think this next bullet
3 kind of tags on to the previous one: Should
4 resources be directed toward developing
5 online technology and applications to provide
6 the water well drilling community greater
7 access to agency notification, evaluation,
8 response, correspondence, and so forth?

9 In other words, I guess is that should
10 we make an effort to put all this online,
11 just like we are trying to do in the office?
12 You know, with permitting and unitization and
13 work permits, and everything else, let's put
14 it all online.

15 MR. ANGELLE: Yeah. So I think that
16 this question was, was one that I brought up
17 about, perhaps, some kind of iPhone app. And
18 that may be a bit too much into the lead.

19 But, again, our promise to water well
20 drillers, if you help us in this deal, we are
21 going to give you some immediate action when
22 we, when we have a decision or a process is
23 complete, we get to get something out to you
24 right away, and you don't have to worry about
25 us sending it to the well owner and the well

1 owner gets it and he didn't really know what
2 it was or he was out of town. We can
3 immediately send something to you. You know,
4 I'm assuming that most business folks now
5 have some type of e-mail capacity in their
6 pocket.

7 So I think, clearly, we need to -- if
8 we are going to ask drillers to do something
9 for us, we need to be able to find ways to
10 shortcut the information to them.

11 MR. WELSH: I think ultimately that
12 would make everyone's, you know.

13 MR. ANGELLE: No question.

14 MR. WELSH: The last question is
15 addressed basic concerns to the well owner:
16 Should the state pursue amending statutory or
17 regulatory requirements to mandate well owner
18 registration of any water well still in
19 existence? That's on the records it's not
20 officially plugged, it's not abandoned, it's
21 not destroyed.

22 What about these, these wells sitting
23 out there? Should we amend requiring the law
24 to require that? I guess it's a question to
25 everyone about the owners of the well. It's

1 the first time we have talked about putting
2 something on the owner.

3 MR. MCKINNEY: Would it be fair to
4 assume that if I were an individual, and I
5 had 500 acres or whatever, and a couple wells
6 on there, that I knew it was there. And you
7 think I'm going to willingly tell you that
8 those -- they are there, and you are going to
9 ultimately possibly require me to plug them?

10 MR. WELSH: Certainly a good way to--

11 MR. MCKINNEY: Whatever it costs, it
12 cost me. I probably won't be calling you.

13 MR. ANGELLE: So who was previously
14 grandfathered?

15 MR. SNELLGROVE: What, prior to 1984?

16 MR. ANGELLE: Right.

17 MR. SNELLGROVE: I'm asking Bo. Wells
18 that were drilled were, were not required to,
19 except with the exception of public supply,
20 as I appreciate it, and that was driven by
21 OPH; that if you are still an active water
22 well under the public supply domain, then
23 you -- they needed to be aware of it and put
24 it in their database.

25 MR. BOLOURCHI: Under the original

1 rules of 1976, it was a requirement for the
2 owner to send a short form informing the
3 state that there's an abandoned well. Okay.
4 But in 1985, most of the state agencies were
5 involved. The question came up, what good is
6 it going to do to tell you there's an
7 abandoned well. Abandoned well should be
8 plugged properly by the statute. So we did
9 not pursue that. So as soon as we find out
10 someone has an abandoned well, we just send
11 them a letter. If they don't do it, it would
12 be a certified letter.

13 Now, the Ag industry, ALCS, had funds.
14 So we work with NRCS using federal funding as
15 much as we could to plug those wells.

16 MR. SPICER: So, Bo, if you recall, I
17 also had some EPA funds, and I couldn't spend
18 one buck of those funds trying to get wells
19 closed down. We offered, I think, \$2,500 a
20 well. And we had no takers.

21 MR. ANGELLE: Well, regardless of the
22 P and A part, so after Hurricanes Katrina and
23 Rita, we had this program where we were
24 interested and we got some federal money to,
25 to look to see if any wells that were in

1 existence were, by the low, medium, or
2 high --

3 MR. KILLEBREW: Risk.

4 MR. ANGELLE: -- high risk offenders
5 to the environment. The only way we knew how
6 to go about doing that is to go from the
7 database; correct? We might have put troops
8 on the ground, but --

9 MR. SNELLGROVE: That was the, the
10 beginning of the process, was to go to the
11 database.

12 MR. ANGELLE: So all wells drilled
13 prior to 1984, there may be a risk to the
14 environment because they are, if you would, a
15 drinking straw into the aquifer. And if they
16 haven't been properly P and A'd, I get that.
17 I understand that costs money. But we don't
18 even know where they are at?

19 MR. SNELLGROVE: That would be -- yes.
20 This is the deal.

21 When we do our evaluations, we are
22 completely dependent upon the water well
23 registration database to identify to us in
24 our areas of review who's in the
25 neighborhood, who's around, what impact, what

1 are the potential impacts. So we recognize,
2 definitely, that there are areas of the state
3 that, that, especially on the domestic side,
4 subdivisions that were built prior to '84,
5 what have you. I mean, there's a lot of
6 wells that are unregistered.

7 MR. ANGELLE: But on the evaluation
8 side -- I guess I'm looking at it from the
9 evaluation side than the environmental
10 side -- from the evaluation side, is it fair
11 to say that the totality of those domestic
12 wells are such a small part of the volume of
13 use that it is likely not to have much of an
14 impact on your evaluation whether you have
15 that information or not?

16 MR. SNELLGROVE: I'm looking more to
17 those that are not registered --

18 MR. ANGELLE: To protect them.

19 MR. SNELLGROVE: To protect them --
20 correct -- from somebody else coming into
21 their neighborhood, or nearby. Could be an
22 industrial well, or an agricultural well.
23 Big drawdown, sucks him dry and then I'm
24 getting a phone call, and then I'm asking,
25 well, where is your well located. Well, I'm

1 not registered. Whoa. Okay. So they
2 weren't even on the radar. I couldn't
3 protect you.

4 MR. ANGELLE: And there was no
5 requirement for them to be registered.

6 MR. SNELLGROVE: That -- correct.
7 That's how I understand the way, the way the
8 law was back, back then.

9 So what this is proposing is, is
10 just -- it's out there. We know it's a
11 problem. How large of a problem it is, I
12 think it's depending on where you are in the
13 state and the age of the community and their
14 dependence upon ground water, what have you,
15 as a resource and continued dependence.

16 So I think it's, it's relative in that
17 sense, but we do know it exists. In fact,
18 what we do now and to be cautious about this,
19 is we, we put our responses and we word in
20 there that, to make sure that they
21 understand, this is -- we see no adverse
22 impacts to register for wells. Be advised
23 that there may be unregistered water wells in
24 the area that, that may pose a risk, what
25 have you. So, so...

1 MR. ANGELLE: I think it's going to be
2 very difficult to get legislation approved
3 that, that asks folks who were not required
4 to do something 10, 20, 30, 40, 50 years ago,
5 to do it now and expect the legislature to
6 embrace that kind of retroactivity and that
7 you wouldn't end up having compliance anyway.

8 So I think we need to, instead of
9 saying should the state pursue amending
10 regulatory requirement, I think the question
11 for me that I would suggest for, for this
12 group is, evaluate innovative ideas on how we
13 may get those wells into the system. I don't
14 know what those innovative ideas are. But I
15 think passing a law, I would just give you my
16 advice, be very difficult to get that.

17 MR. WELSH: Okay. I guess that's
18 the -- basically the -- ends the last bullet.
19 I guess I now would ask does the audience,
20 anyone in this room, have any comments on
21 anything we have been talking about, about
22 Registration?

23 Mr. Secretary, that's all I have got.

24 MR. ANGELLE: We have --

25 MR. DUPLÉCHIN: I have got one

1 comment.

2 Would just like to reiterate the
3 statements that were made earlier on possibly
4 finding funding to be able to combine the
5 drillers registration and prior notification
6 into one database.

7 At Capital Area Ground Water
8 Conservation District, we rely on both those
9 sets of information for the permits that we
10 issue in the five-parish area. So right now
11 we are working with three sets of numbers.
12 And, hopefully, if those two databases were
13 combined, that would result in one identifier
14 for the well that you have. You know, we
15 would wholeheartedly support any effort for
16 the Department to find funding to, to get
17 those databases combined.

18 MR. WELSH: Thank you.

19 Anyone else? Yes, sir.

20 MR. LELEAUX: Basically, right now if
21 I work on a well that's not registered, I'm
22 supposed to register it. Even though it's
23 done in 1900, I'm supposed to -- if I change
24 the screen or do something of that nature, I
25 register the well. That's a rule, that if I

1 find that it doesn't have any registration,
2 I'm supposed to help register it. And
3 that's, that's already part of the rules and
4 regulations.

5 MR. ANGELLE: That's smart.

6 MR. LELEAUX: So it's already -- I
7 mean, the water well contractors are going to
8 help you.

9 But, again, when we drill a new well,
10 if there's an existing well there, the
11 inspector looks at it and says, hey, that
12 well has to be complied -- abandoned by such
13 and such a time. You know, the domestic well
14 drillers, if they're part of a program, it
15 has to be done. NCRS, they all telling them
16 they have to do it. But getting them to do
17 it is another issue.

18 But some of these wells are just for
19 when saltwater is in the canals. They don't
20 use them but every 40 years. They still have
21 that old well there to pump whenever the
22 saltwater comes up the intercoastal or
23 somewhere in that area. So those wells exist
24 also.

25 MR. WELSH: Thank you, sir. And I

1 thank all the comment-ors that participated.

2 MR. ANGELLE: Good job. Thank you
3 very much.

4 Okay. Evaluation. Mr. Eugene Owen.

5 MR. OWEN: There are seven bullet
6 points that maybe we can cover in the
7 allotted time. We are running 45 minutes
8 behind time.

9 But is the current law and regulation
10 requiring submission of notices of intent to
11 install a water well to Conservation for
12 non-exempt water wells to be used for
13 irrigation, public supply, industrial and
14 other purposes, is this adequate, or does
15 this procedure need improvement?

16 I think what we need to do, redefine
17 or refresh our memory on a couple of terms
18 here.

19 What are non-exempt water wells? They
20 are domestic wells, they are emergency wells
21 for the duration of the drought, and they are
22 replacement wells.

23 Are there any other non-exempt -- are
24 there any other exempt water wells that I
25 haven't --

1 MR. ADAMS: Drilling rig supply wells.

2 MR. OWEN: Drilling rig supply wells.

3 MR. ADAMS: Yes, sir.

4 MR. OWEN: Regardless of capacity?

5 MR. SNELLGROVE: That's correct.

6 Except if it's going to be used for the
7 purposes of frac water supply, then it would
8 be categorized as an industrial well, because
9 the concept there is that these rig supply
10 wells are temporary in nature.

11 MR. OWEN: Okay. We have really spent
12 a great deal of time talking about this, the
13 current law and regulation. And is the
14 current law and regulation requiring
15 submission of notices of intent for these
16 non-exempt water wells sufficient, or does it
17 need to be strengthened? That is the
18 question.

19 MR. MAYS: I don't know all --

20 MR. BOLOURCHI: Gary. Gary.

21 MR. SNELLGROVE: Yes, sir.

22 MR. BOLOURCHI: If a well is exempt,
23 does that require pre-registration
24 notification?

25 MR. SNELLGROVE: If it's exempt, it's

1 still under Title 43 under DNR's requirement
2 required to be -- notice is still provided to
3 come into our agency but 60 days after it's
4 been installed.

5 That is a duplication of effort with
6 the water well drillers submittal of 30 days
7 after it's been installed.

8 MR. BOLOURCHI: Because you are
9 already getting the registration form by
10 then?

11 MR. SNELLGROVE: Correct.

12 So what we have done there with regard
13 to rig supply, to exempt well uses, we have
14 amended the regulations under Title 43 such
15 that a well owner, if he chooses, that he
16 may -- that the water well driller's
17 registration would suffice as his
18 requirements under Title 43 to meet that
19 60-day well owner requirement. So we have
20 tightened it up for rig supply and domestic.

21 We couldn't touch the, the drought
22 relief because that's only a temporary
23 situation. So, you know, which triggers at
24 some point they have got to come back and
25 give me that prior notification, if you will,

1 even though it's already been installed.
2 They have got to give us the opportunity to
3 evaluate that location and that use under
4 more normal conditions. You know, in other
5 words, outside of the drought event, before
6 they can continue to use the well.

7 MR. BOLOURCHI: Could you, could you
8 have used the registration form for the
9 evaluation?

10 MR. SNELLGROVE: No, actually not,
11 because there wouldn't be any intended use,
12 rate and volume and number of days that they
13 would intend to use the well.

14 MR. BOLOURCHI: Production well.

15 MR. SNELLGROVE: Yes, correct. That's
16 the main issue.

17 MR. OWEN: Any other comments,
18 questions?

19 MR. MAYS: I'm not familiar enough
20 with the law to make a comment, but I would
21 ask, is a supply, drilling rig supply well,
22 it has a time frame on it. And after that,
23 do they have to plug and abandon it within
24 that time frame, or, or how does that work
25 legally?

1 MR. SNELLGROVE: Right. No, sir, it
2 doesn't have a, an expiration or a time
3 period for its usefulness. If an operator
4 wanted to maintain that well, he could or she
5 could. They could put it into an inactive
6 status, or they could transfer it to a
7 landowner, for instance, for stock well or
8 irrigation, what have you, which does occur.
9 But there's currently no regulation for a rig
10 supply well to be P and A'd at some point
11 after its use for that purpose.

12 MR. MAYS: And could they use that
13 water for fracking?

14 MR. SNELLGROVE: Only if they have
15 been provided -- only if they have provided
16 prior notification to our agency for
17 evaluation for that specific use.

18 MR. MAYS: Is there any checking?

19 MR. SNELLGROVE: The oil and gas
20 industry has been under much scrutiny from
21 our agency as far as compliance with rig
22 supply/frac water supply. We feel, and I
23 think our data supports, that that, that that
24 industry is compliant with those
25 requirements.

1 MR. BURLAND: So what do you think the
2 difference is between a high compliance from
3 the oil and gas industry on those types of
4 wells and a 45 percent compliance on, on, you
5 know, domestic or other, other well users? I
6 mean, I probably know the answer, but...

7 MR. SNELLGROVE: I can tell you. I
8 think there's multiple answers to that.

9 MR. BURLAND: What can we do to
10 duplicate what you are doing so successfully
11 on that side?

12 MR. SNELLGROVE: Let me say this: We
13 were at a competitive advantage, if you will,
14 in dealing with the oil and gas industry
15 because we have all their contact information
16 in our databases. It was easy to reach out
17 to that group, very easy. And
18 predominantly -- well, in 2008, at the onset
19 of Haynesville Shale, there was a very
20 limited number of operators that we had to
21 reach out to, 25 or so. There weren't, there
22 weren't very many. In fact, in the very
23 beginning, it was even less than that.

24 So -- and then we, we had a good PR
25 effort. We, we had advisories that we sent

1 out. We changed policy in-house. The
2 industry was very receptive. I think they
3 saw the need to, to protect their resource.
4 They had a vested interest as well because
5 they were going to be there long-term. Just
6 wasn't here today and gone tomorrow. So I
7 think there was just a multitude of things.
8 But I would have to say that the speed at
9 which we were able to respond and react
10 was -- it was certainly to our advantage to
11 have all of that information right there
12 within our own database to be able to get the
13 e-mail addresses, the phone numbers. I mean,
14 just logistically it was an easy process.

15 MR. ANGELLE: And we regulate the
16 other, you know, the income stream of their
17 production, so...

18 MR. BURLAND: Yeah. No where to hide,
19 in other words.

20 MR. ANGELLE: Well. I mean, I think
21 generally, generally people in business, I
22 think human beings, I give them the benefit
23 of the doubt. They want to comply, if you
24 let them know what it is. And, of course,
25 there are some folks that you have got to

1 bring along kicking and screaming, but for
2 the most part, people want to comply.

3 But I think, I think just to get back
4 to Mr. Mickey's question about, you know, do
5 we have water that is being used to frac
6 wells that is coming from a rig supply well.
7 While I can't prove it, I would say
8 instinctively yes. And I wouldn't
9 necessarily say it's because the, the energy
10 company is doing it. It's a rig supply well.
11 It's no longer used for that purpose. And it
12 may be left in that field for future use for
13 that -- the landowner or whatever, and, and
14 now it's out there, and, and water from that,
15 which was originally a rig supply well, which
16 may never have changed its status or
17 registration, is not being -- the energy
18 company is not using it for that, but some
19 water broker/operator is looking for every
20 opportunity he can, and there's one. And,
21 and, and unless you have somebody to, to
22 physically be there to, to interrupt that
23 business deal, it's happening. I can't -- I
24 just instinctively believe that.

25 And I think that's happening not only

1 on those. I think it's happening on every
2 potential source of water that's out there
3 that, that folks are trying to get.

4 MR. MAYS: Well, again, if, let's just
5 say that they had a year, the application or
6 the registration was that they had to abandon
7 it or plug it in one year. What -- who
8 would, who would suffer if they did that?

9 MR. ANGELLE: Well, I would say, I
10 would say to that, is that would, that would
11 be wasted resources that were used to drill
12 that well that would not have a future
13 utility for another purpose behind it.

14 So, for instance, if, you know, many
15 of the practices in an oil and gas mineral
16 lease negotiation are if you drill a water
17 well on my property, I get to keep it. And,
18 you know, it's in kind of a rural setting and
19 it has a value. So in that instance, you
20 would, you would take, you would take an
21 investment that was made and, and that would
22 have some, some utility, and you would just
23 say, I'm sorry, but you've got to P and A,
24 you can't use it anymore. I don't
25 necessarily think that's a good use of

1 assets.

2 MR. MAYS: Well, I, I don't know. I
3 mean, I can't argue the point. I was just
4 wondering.

5 Like, we get reports of, you know, in
6 our area up there, that some of those wells
7 are 50 plus years. Jim, you probably know.
8 Some of those wells are real old. And we get
9 reports of there's an abandoned oil site
10 there, but there's still a water well there
11 that's not plugged.

12 And I understand that that was the
13 normal process, is to leave a water well
14 there for the landowner as part of the
15 incentive to drill on their property and all
16 that, but they are not actually using those
17 with the water systems we have. And so you
18 have a number of, of abandoned wells that are
19 sitting out there.

20 And I wouldn't want to, to do
21 something that would not -- you know, that's
22 not, not being able to use that. But it
23 seems like to me it would be appropriate to
24 put some type of time frame on that, if it's
25 not being used.

1 MR. ANGELLE: Well, maybe, perhaps it
2 would be a time frame to say that within one
3 year, just using that as a starting point, it
4 has, it has to be P and A'd. It has to be --
5 you have to show evidence of continued use or
6 you have to put it in the name of, of a, I'm
7 assuming, a different well owner.

8 MR. MAYS: Well, that's where, that's
9 where I was going.

10 MR. ANGELLE: Yeah. Yeah.

11 But in spite of that, in spite of
12 that, I still think that, that the -- that
13 there's -- that well, there's some cases
14 where that well would still be used for a
15 purpose of which it was not permitted. And
16 there's another one nextdoor that was drilled
17 for -- had something that had nothing to do
18 with oil and gas that's, likewise, being used
19 for a purpose for which it was not permitted.

20 I'm getting the glazed-over look.

21 MR. OWEN: So so far what we have
22 really said, except for a change in ultimate
23 use, there may be a way to firm that up and
24 get some sort of residual notification change
25 in use. And I do not know how that would be

1 done procedurally.

2 But except for that, this notices of
3 intent for non-exempt wells seems to be
4 adequate, is this the consensus?

5 MR. ANGELLE: Uh-huh. Yeah, I think
6 so.

7 MR. OWEN: Now, the notice of intent,
8 when it's received in DEQ, triggers off a
9 whole chain of events, an examination of
10 notice -- Department of Conservation, sorry.
11 Triggers off a whole array of procedures in
12 analyzing the notice of intent. And Gary
13 sent me a full-page checklist of all the
14 procedures that this triggers off. But
15 there's a series in this checklist to examine
16 sustainability of the aquifer, to examine
17 whether that falls in Capital Area Ground
18 Water Conservation Commission, for instance,
19 to examine whether or not there is any
20 predetermined sustainability issues with
21 respect to this aquifer the well is to be
22 sited in, and whether or not there are other
23 issues regarding interconnection of the
24 aquifers that need to be examined. Any of
25 these would trigger a further examination

1 analysis of whether or not this contributes
2 to the sustainability or non-sustainability
3 of the aquifer.

4 The, the checklist appears to be
5 perfectly adequate in it's scope. And my
6 question was whether or not the checklist is
7 done in practice as well. And if it's
8 diligently pursued in practice, then this
9 raises the question, which is bullet point
10 No. 2, Should the conservation continue the
11 implementation and improvement of their
12 existing water well pre-installation notice
13 of intent aquifer sustainability and existing
14 water well impact evaluation procedure?

15 The water well impact evaluation
16 procedure really, unless it's sustainability
17 issues, which we will really discuss in the
18 next bullet point, have arisen by some sort
19 of publication or prior notice, then
20 sustainability is examined with respect to
21 proximity to existing water wells, and the
22 proximity issue has to do with whether or not
23 these wells, or with the proposed well, is
24 within a quarter of a mile or less. And the
25 presumption is that if the spacing of this

1 new water well is not within a quarter of a
2 mile, and this is not in an area where
3 sustainability issues have been raised
4 previously, then it's presumed to be a
5 non-issue as far as proximity is concerned.

6 The question is, then, is this
7 procedure, which I gather from firm head nod
8 from Jeff over there and Gary also, that this
9 is being done in practice as well as in
10 theory. Is this practice adequate?

11 MR. JONES: Yes. This is in practice.
12 We are completing one of these -- one of
13 these checklists is completed for each and
14 every one of the non-exempt wells and it is
15 attached. It's part of the file where we
16 include the -- for each well, where we
17 include the, again, the letter that goes out
18 to the well owner and a copy of the completed
19 form.

20 MR. ANGELLE: Is a copy of the form in
21 the package here?

22 MR. JONES: The copy of the
23 technically complete --

24 MR. ANGELLE: I mean, in our package
25 of information here, do we have a copy of a

1 sample questionnaire?

2 MR. SNELLGROVE: We don't --
3 Mr. Eugene Owen has an example of it. Yeah,
4 he's got the four-page evaluation checklist.

5 MR. ANGELLE: Okay. All right.

6 That needs to be a part of -- I know
7 we talked about it. That needs to be a part
8 of the report as an exhibit.

9 MR. JONES: Yes. I did send it to
10 Jennifer, and she's got a copy of it.

11 MR. ANGELLE: Yeah.

12 So is your -- your position is that in
13 every case where there is a well that
14 requires evaluation, the four-page evaluation
15 form is being completed?

16 MR. JONES: It's being completed,
17 signed and dated, every time.

18 MR. ANGELLE: Got you.

19 MR. OWEN: But it is true, Jeff, that
20 if the area has not been previously
21 identified by some published work, like, some
22 investigation Capital Area Ground Water may
23 be making of the impact well, or some USGS
24 investigation of where it raises the question
25 of sustainability, that it's pretty much a

1 fill in the blank, because unless the, unless
2 the conservation has been notified of a
3 sustainability from some other place, then
4 it's, unless it's the proximity issue arises,
5 it is deemed to be sustainable; is this not
6 correct?

7 MR. JONES: Again, yes. Again, we are
8 looking at potential interference for the
9 other wells, as you say, the proximity issue,
10 but we also have a full listing of the USGS
11 reports that you were mentioning. And the
12 reports have been put together regarding the
13 aquifers within the state and where those
14 sustainability issues are predominant, where
15 we have areas of water level decline. And
16 just as we are looking at -- we look at all
17 other databases as well, the DEQ database.
18 And, again, the, the guys that are doing
19 these evaluations are both geologists. They
20 are both trained. And they both are aware of
21 all of the maps that show these areas of
22 where there would be a sustainability issue,
23 such as the water level decline in the Chicot
24 in Evangeline Parish. We all know of the
25 Monroe area and the Sparta in the Ruston,

1 and, again, those are areas of ground water
2 concern, but we, we are aware of those.

3 Plus, we are also aware of on a
4 parish-by-parish basis, we have the maps that
5 show the saltwater plumes within the Sparta
6 aquifer. Say, all through central Franklin
7 Parish, there are a lot of people that aren't
8 aware that the Sparta is salty there. And
9 we, actually, have a, through, you know,
10 actually through Conservation, we have
11 provided a company permits, these are actual
12 permits, for brine production wells from the
13 Sparta aquifer. And, again, we are talking
14 about greater than 10,000 TDS.

15 But, Mr. Owen, we are doing the job of
16 our research. And if we have got any
17 questions, we, say, we spend more time with
18 these. We are looking at -- as I say, we are
19 looking at high volume wells. These are the
20 non-exempt wells.

21 MR. OWEN: Right.

22 MR. JONES: Okay.

23 MR. OWEN: Please.

24 MR. MCKINNEY: I would like to make a
25 comment on that that Mickey reminded me.

1 I was one of the few people that sat
2 down with the people in Arcadia that were
3 doing the, the leaching of the salt dome
4 using purposely pure Sparta water to do so at
5 the rate of some 10 million gallons a day, if
6 I remember correctly. That caused quite a
7 bit of a flurry of concern up in that area up
8 there, and we were able to sit down with
9 those people.

10 And through the negotiation and
11 everything, they did begin to initiate some,
12 some issues, I mean, some solutions, by using
13 wastewater collections and so on and so forth
14 with the Town of Arcadia and so on and so
15 forth.

16 So the bottom line was, they rallied
17 to solve the problem and help alleviate the
18 problem, but we were a year into that process
19 before they got to that point. So once they
20 have finished within another 12 months or so,
21 then that issue will be erased and they will
22 move on some place else.

23 But this was as good of an example,
24 people, of what should be done in the case of
25 using extremely large amounts of aquifer to

1 do a project when, in fact, they may have met
2 some preliminary approval. I'm not saying
3 they didn't. But to go into a community to
4 where there was an issue involving a very
5 critical aquifer, and then begin to do what
6 they did to that, and ultimately came up with
7 somewhat of a solution, should be aired out
8 far in advance, far in advance, of when they
9 show up and start doing it. That is a very
10 critical issue as far as I'm concerned.

11 MR. OWEN: Any other comments on that
12 point?

13 Before we leave the notice of intent,
14 in this checklist there is a place in the
15 checklist that can trigger off an actual
16 modeling of the effect of current
17 withdrawals, if they are fully known, plus
18 the withdrawal from the proposed well. And I
19 suspect this doesn't happen very often.

20 Would you comment on that.

21 MR. JONES: Actually, we, with every
22 single evaluation, we, we actually look at
23 maximum drawdown. We actually have a simple
24 formula. We don't do it. And, again, we are
25 looking at, we are looking at scenarios that

1 don't require a full impact study that we
2 require for projects involving several or a
3 number of large volume wells. But if we are
4 looking at a large volume well, or, actually,
5 in most instances, when we see wells within
6 the quarter mile, we have the Theis equation,
7 which we have -- actually, we have got a
8 little spreadsheet program that, that
9 actually will give us, give us the maximum
10 drawdown through the period of time that that
11 well is proposed to be used per year. And
12 generally for irrigation, we are looking at
13 30, 60 days, something like that. And then
14 we look at it at a yearly basis.

15 But that's, that's what we are doing
16 with each one of these. And that is attached
17 also and it's a part of the packet, of the
18 file, that goes with each notification.

19 MR. OWEN: The evaluation form is --
20 checklist is very complete. There's no
21 question about it.

22 But my initial reaction was that you
23 are really dependent on finding the straw
24 that breaks the camel's back before it comes
25 up with a negative evaluation; is this not

1 correct?

2 MR. JONES: That is correct.

3 MR. OWEN: And you don't often find
4 the straw that breaks the camel's back in a
5 single whip?

6 MR. JONES: We get, we get it --
7 actually, what we have done on a number of
8 occasions, is on the last page, you see that
9 if any of the conditions of potential concern
10 are checked, then we request from the owner a
11 ground water impact study to be completed.
12 And along with that, with that study, and
13 oftentimes these have taken a number of, a
14 number of submittals from the owner. That
15 study will eventually require another order
16 that requires them to complete a monitoring
17 program, a program to monitor water quality,
18 water levels. And, again, this is if we have
19 any of the situations that we see as, as
20 problematic, such as the saltwater intrusion
21 issues, particularly the Chicot area -- I
22 mean, the Chicot aquifer along the area of
23 the, of the coast where we have, we have got
24 USGS maps that show where the saltwater wedge
25 is.

1 Then, also, like I say, the situation
2 where we have wells going in in the, in the
3 Baton Rouge area. We are also very
4 concerned, as we all are, Capital Area as
5 well, and you-all, that we identify any of
6 that.

7 But, again, there are a number of
8 different programs and, as I said, we have
9 got Capital Area also looking at that
10 situation.

11 MR. SNELLGROVE: And, Mr. Owen, I
12 believe -- I think you are correct in what
13 you are saying, is that the form doesn't
14 directly speak to an accumulative effect.

15 MR. OWEN: Correct.

16 MR. SNELLGROVE: That's where I think
17 you are going. I think in practice, though,
18 we take those things definitely into
19 consideration in our evaluation. Perhaps,
20 the form could be, could be improved and
21 maybe we can more specifically put an item in
22 there that would be a check box that the
23 technician would, you know, certainly have to
24 cross out and say I have looked at, you know,
25 so we don't get to that straw that broke the

1 camel's back scenario. You know, I think
2 that's a good point. I think that's one room
3 for improvement on the evaluation checklist.

4 MR. ANGELLE: Yeah. And I would say
5 in addition to more than just checking a box.
6 It's actually some statement of what the
7 process was used that, again, can, can be
8 defended on checking the cumulative deal.
9 You know, I need to know -- I think it's
10 important when you file with the public that,
11 not that I looked, but this is what I looked
12 at, and these were my concerns, and this led
13 me to the decision.

14 MR. SNELLGROVE: Point taken. As we
15 do with the Theis equation, we always print
16 that out and attach it to the form so that
17 we -- the file will speak for itself, in
18 other words. When Jeff Jones is not around
19 and Gary Snellgrove is not around, we will
20 have a good public record that will show --
21 the determination that was made.

22 MR. ANGELLE: You-all are going to be
23 here a while.

24 So, Mr. Owen, could I ask Mr. Ted,
25 could you, on that issue that you described

1 about the notice and the one year late, I
2 didn't, I didn't follow all that. Would you
3 try to get it in there one more time real
4 quick for me.

5 MR. MCKINNEY: Well, basically --

6 MR. ANGELLE: On what happened and
7 what should have happened.

8 MR. MCKINNEY: All right. Basically
9 the project did not come to light until after
10 some local conversations, or whatever, and
11 the Sparta Commission got involved in it.
12 And were -- we asked to sit down with them to
13 understand the whole process and everything.

14 But it was a two-year process, if I
15 remember correctly, in which they are
16 leaching two domes in the Arcadia, Louisiana,
17 area, salt domes, for the storage of natural
18 gas. And they were already, I would say, 80
19 percent complete with the first dome when we
20 got word of it and to the extent that we
21 needed to sit down with them, because people
22 were becoming quite concerned about the
23 elevation of the wells within the region and
24 so on and so forth. And also to the extent
25 that supposedly the City of Arcadia made an

1 agreement with the gas company to use one of
2 their municipal wells for, for the water
3 purposes to do this.

4 Once we sat down with them and brought
5 it to the attention, I think they voluntarily
6 put metering devices on all the, the water
7 surfaces that -- sources that they are using,
8 be it the creek, be it the wells, be it
9 whatever else that they are using.

10 But anyway, they, in the second year,
11 in the second dome, they began to show the
12 use of the surface waters and the byproducts
13 from the poultry plant that was there, the
14 sewage system that they had there from
15 Arcadia, and they significantly began to get
16 off of the Sparta in the second phase. But
17 that was half of the use. And they, they
18 were using, at the maximum time, the same
19 amount that the City of Ruston was using for
20 its daily purposes, they were using also
21 daily. So you're sitting there with a city
22 the size of Ruston sucking out of the Sparta
23 to leach salt out of the dome. And that's
24 basically where we are. And I think the
25 project will end up probably in October or

1 November of this year and they will be
2 completed with that.

3 MR. ANGELLE: Okay. So, so was the
4 decision-making process from the state's
5 aspect of that the resource could, could,
6 could take that volume of withdrawal? We can
7 have the discussion whether or not the state,
8 the state, in your opinion, someone else
9 opinion, erred in that decision.

10 What I'm hearing, though, is that it's
11 the process of notification that you're
12 driving at on this issue.

13 MR. MCKINNEY: I think it's several
14 things. I think it's notification issue,
15 notification to the general public initially
16 from the beginning, okay, of the project.
17 Lack of notification, let's put it that way.

18 And the other would be simply to the
19 extent that maybe there wasn't due
20 consideration into the volume that was going
21 to be used and the effect that it would have
22 on the region.

23 Now, Ben McGee has been monitoring
24 these wells in that area. Some have dropped
25 drastically, some have recovered. But,

1 again, it's all related to --

2 MR. ANGELLE: Right. And we can have
3 the discussion, you know, all day long on
4 should have or shouldn't have.

5 MR. MCKINNEY: Right.

6 MR. ANGELLE: And there will be, you
7 know, a variety of opinions. But there ought
8 not be any, any daylight in a process that
9 gets stakeholders to the table.

10 So I guess I'm going to come back
11 again and try, the second time you were
12 advised because of your late notice on the
13 first one. So you got brought to the table
14 or -- and I say that just in, you know --

15 MR. MCKINNEY: Midstream, yes.

16 MR. ANGELLE: But, but --

17 MR. MCKINNEY: Not by the state, no.

18 MR. ANGELLE: No, no. I'm not at all
19 alleging that. I'm not at all alleging that.

20 What, what would you propose? I'm
21 assuming that when -- did the Police Jury
22 get -- who applied for that well?

23 MR. SNELLGROVE: These wells were old.
24 This was 2008 before we had the e-mail
25 distribution. That was part of the reason

1 why we put the e-mail distribution system.
2 We have responded with policy to provide the
3 notifications to, to eliminate a situation
4 like that from occurring again.

5 MR. ANGELLE: Okay. So -- excuse me.
6 Where there is a, a water management
7 authority, for lack of a better word, like
8 Capital and Sparta group, do they also get
9 that e-mail?

10 MR. MCKINNEY: They do now.

11 MR. SNELLGROVE: They should. I mean,
12 we put them on there, but they can opt out.

13 MR. ANGELLE: No, no, no. I
14 understand that, but...

15 So in, in a going forward basis, the
16 state would notify someone and there would be
17 some high alert that would say what's going
18 on here, we want to have an opportunity to --

19 MR. MCKINNEY: Well, I just wanted to
20 make sure that that scenario does not occur
21 again.

22 MR. WELSH: Was a hearing held, Gary?

23 MR. SNELLGROVE: Yes, sir. Well, to
24 my knowledge, the Injection and Mining
25 Division in the application for the actual

1 cavern, itself, which had a disclosure as to
2 where all the water was coming from, did hold
3 a public hearing to my knowledge, as I
4 recall.

5 MR. ANGELLE: I'm -- I don't want to
6 spend any time on what we, we --

7 MR. MCKINNEY: Didn't do.

8 MR. ANGELLE: -- we didn't do, because
9 I think we can have that meeting tomorrow or
10 we can have it the next day. What I'm trying
11 to make sure is that you have a sense of
12 satisfaction, because I want that same
13 satisfaction, that, you know, I think you
14 just made -- the goal was just want to make
15 sure it doesn't happen again.

16 MR. MCKINNEY: Right.

17 MR. ANGELLE: I'm trying to make sure
18 that you're convinced that there are policies
19 in place that would, in effect, guarantee
20 that goal. Do you believe that there are
21 now?

22 MR. MCKINNEY: I'm assuming you
23 publicly are telling me that, and so,
24 therefore --

25 MR. ANGELLE: No, no. I'm searching.

1 And, and the only thing I would know is that
2 when someone would apply for -- you know,
3 they don't have to send out a news release
4 when they apply for, for, you know, a
5 pre-notification, whatever it is.

6 MR. SNELLGROVE: Right.

7 MR. ANGELLE: It is a public record.
8 And in an effort to reach out to
9 stakeholders, we now -- I'm going to make a
10 statement, correct me if I'm wrong -- the
11 system picks the parish from which it is
12 located, and sends out an e-mail to the
13 Police Jury, and for those parishes that are
14 within, again, water management unit area, it
15 goes to that office as well. That may not be
16 enough.

17 MR. MCKINNEY: I don't know. All I
18 know is I get those notices. They come on my
19 computer also, because I'm on that list,
20 but...

21 MR. ANGELLE: All right.

22 MR. MCKINNEY: I can't answer for the
23 rest of the folks.

24 MR. ANGELLE: Well, but in your
25 standpoint -- from your standpoint, you feel

1 like you're getting the notice now. You see
2 the system in place that gives you a chance
3 to, to comment if, or to ask, begin to start
4 asking questions?

5 MR. MCKINNEY: Right.

6 MR. ANGELLE: Okay.

7 MR. OWEN: Well, what the bullet point
8 says, really, is should we improve the
9 existing notice of intent system. And,
10 frankly, Mr. Chairman, my own assessment is
11 it is an excellent system. It is only
12 operating in two respects that I think could
13 be improved.

14 One, is the fact that it's always
15 operating on published prior knowledge. You
16 have to have been notified that there's a
17 problem in this aquifer to trigger off much
18 of the protection that's going on, instead of
19 asking the stakeholders during the
20 application process, do you know of any
21 effect.

22 And the other point is that might be
23 improved is this incremental method of
24 analysis of the effect of the well as opposed
25 to an aggregate analysis on having to do with

1 the effect of, of an incremental well.

2 If there are no other comments, we
3 will move on to the next, which should be
4 simple. It says, Should this notice of
5 intent be revised to remove the exempt status
6 of certain replacement wells in the case
7 where those wells have been long inactive?

8 And I think that there ought to be a
9 statute of limitations that a well has been
10 inactive so long, it's no longer eligible for
11 -- as a replacement well.

12 Any comments on that point?

13 Moving ahead.

14 MR. BARR: I'll disagree with you on
15 that.

16 MR. OWEN: Okay.

17 MR. BARR: I'm Jesse Barr.

18 You know, we have got, we have got the
19 procedures out there to handle replacement
20 wells. And if you go in with a replacement
21 well, you have still got to come back and
22 record the information on it. And I think
23 what you are really looking for is the
24 information. It's not the problem with the
25 well, itself. And what we are getting, then,

1 is the information and going through the
2 process there that you are seeing that it's
3 being used and coming back into production.

4 Most of these areas that you are going
5 to be having replacement wells, to a large
6 extent, are not in the areas where you are
7 going to necessarily be having problems. And
8 I think you need to take that into
9 consideration. And that's why the
10 replacement provisions were largely put in
11 there to begin with, in that this is a well
12 that's existing. Whether or not you have got
13 information on it, if it was grandfathered in
14 prior to '84, you are going to start
15 collecting information on it, and you will
16 have the ability to get the information on it
17 at that point.

18 MR. MAYS: Now, can you explain to me,
19 give me an example of inactive well that
20 would be a replacement. I have no idea what
21 that could be.

22 MR. BARR: Well, as we were alluding
23 to earlier on on some of these de-watering
24 wells or wells that may be on some of these
25 agricultural operations that have saltwater

1 that are only run periodically, I mean, they
2 could have been grandfathered in prior to the
3 '84, were coming on now that, you know, to
4 the period of time where 20 plus years that
5 those wells have got to be reworked. And
6 when you come back in now to rework them, or
7 put something down right next door to them
8 because the well has sanded in or whatever,
9 because they have been in operation that
10 long, that's going to qualify as a
11 replacement well.

12 MR. MAYS: You are saying the
13 procedure for replacement well is the same as
14 it would be if it was a new well?

15 MR. BARR: No, it's not. It's going
16 to be -- the procedure there is it's going to
17 go in as a replacement well, but you may not
18 have necessarily had the information on that
19 well beforehand, but you are going to get it
20 now. When they come in, the driller comes in
21 and provides you that information, again,
22 when he registers the well.

23 MR. BURLAND: And then since it is a
24 replacement, that's why there was no 60-day
25 pre-notice?

1 MR. BARR: Pre-notice on it, that's
2 exactly right.

3 MR. BURLAND: Because the well you're
4 replacing is either producing or what,
5 inactive, abandoned?

6 MR. BARR: Or inactive -- hadn't been
7 necessarily active in a while.

8 MR. OWEN: Well, but, I understand the
9 point you are making, which is a good one,
10 but consider that aspect of the same thing.
11 Suppose the well has been effectively
12 abandoned. It hasn't been abandoned, but it
13 hasn't been used in 15 years. Just sat there
14 on your property. All of the sustainability
15 calculations would have been based on that
16 well not existing because it's been idle for
17 such a long period of time.

18 For you to then call that a
19 replacement well, seems to me that ought to
20 have some sort of limitation on the time
21 within which the replacement well could
22 replace an idle and effectively an abandoned
23 well.

24 MR. BARR: Mr. Owen, I think we are
25 coming at this from two different

1 perspectives.

2 MR. OWEN: I suspect that's true.

3 MR. BARR: I think you're coming at it
4 from the perspective of I would like to deny
5 the ability to have that well there because
6 it hasn't been in operation and I haven't had
7 the information on it prior to. And I'm
8 coming at it from the side of in the area
9 that I'm from, there is really no reason to
10 begin with, because there's adequate water
11 there, for that well not to come back into
12 production and be available for use, whether
13 it's been sitting there for 15 years or, or
14 not, or whether it was registered prior to
15 1984 and was grandfathered in under the old,
16 under the old requirements. And now it's
17 needing to be reworked.

18 MR. BURLAND: And that's assuming
19 you're not changing the classification or the
20 use of?

21 MR. BARR: Assuming, that's right.
22 That's exactly right. Assuming it's going to
23 be used for the exact same thing it was
24 intended for to begin with.

25 MR. MAYS: So what if that inactive

1 well was in an area that you had a water
2 shortage problem. Your scenario was that
3 most --

4 MR. BARR: Well, then, then when the
5 driller comes in and does it, that well is
6 going to show up now on the records, if it
7 wasn't there to begin with. And while it
8 would not necessarily have to go through the
9 prior notification, it's going to be flagged
10 when it comes in to be registered and they
11 are going to have the opportunity to review
12 it now. And if it's in a critical area or an
13 area of concern, they will then have the
14 ability to go in and regulate it.

15 MR. OWEN: Would they?

16 MR. BARR: If it's in, if it's in an
17 area of concern, yes, they would.

18 MR. SNELLGROVE: Okay. If the
19 replacement well, if the replacement well
20 comes in -- when a replacement well comes
21 into our agency, as it's defined today, there
22 is no evaluation process, because it is
23 exempt.

24 What this, what this is contemplating
25 is the scenario where there may be a well in

1 existence that hadn't been part of production
2 in an area, and perhaps it's not in an area
3 where there's prolific water resources or
4 what have you, but it's in an area where
5 there's issues, sustainability issues, water
6 level drawdown, et cetera. And it now -- and
7 now -- and maybe some of these are, are large
8 wells. I mean, some of them are, you know,
9 very large volume wells that are coming in as
10 replacement wells is what we have seen.

11 So, so 15 years passes by, the well
12 hasn't been active. All of a sudden it is
13 active, and there's been some other wells
14 that have populated around it since that time
15 who have gone through an evaluation process.
16 You know, maybe they have been somewhat put
17 under a watchful eye or management plan or
18 something. And all of a sudden, this, this
19 older well now goes into production without
20 any, without any type of evaluation by the
21 agency. It just -- it goes untouched. And
22 so it's, it's almost as if there has been an
23 unlevel playing field now.

24 I think that that's what this is
25 contemplating. It's not necessarily,

1 necessarily looking up the situations where
2 there are no existing issues. It's looking
3 to protect against an unregulated situation
4 that, perhaps, that is warranted.

5 MR. LOEWER: We have to be careful of
6 the unintended consequences here, too,
7 because what we, we should be like in the
8 fact that it hadn't had to run, and now it's
9 bad and it has to run, we don't want someone
10 to say, well, let's crank up old Joe over
11 here, because let's just keep it running for
12 a couple hours a year just to get it running
13 so it can be a continuing well. You don't
14 want to fill in the fact that you have to run
15 it just because you want to keep the tag.
16 Here we're trying to conserve water. Let's
17 not be careful that we don't flip over too
18 hard here.

19 MR. BOLOURCHI: I have a couple of
20 questions.

21 This inactive well, is it in the state
22 water well registration database?

23 MR. BARR: Well, I guess depending on,
24 you know, it may or may not be.

25 MR. SNELLGROVE: Correct. It

1 certainly could be a well that dates back to
2 the '50s.

3 MR. BOLOURCHI: Okay. So, regardless,
4 when you decide to replace it, are you going
5 back in the same old casing? Are you going
6 to rework it, or are you going to drill the
7 new well?

8 MR. BARR: That would be the
9 condition -- largely depend on the condition
10 of the well when you started back -- started
11 it back up and realized it wasn't going to
12 really work anymore. It would be a matter of
13 is it an equipment failure problem or -- in
14 terms of has your screen collapsed, has the
15 stuff rusted out, or whatever, and you could
16 just go in and pull the equipment out and put
17 new equipment in, or has there something
18 happened to the formation there over that
19 period of time to where it's not allowing you
20 to pump and you need to put one in right next
21 to it or very close to it.

22 MR. BOLOURCHI: Let's assume you put
23 in a new well. Then what happens to the, to
24 the old inactive well?

25 MR. BARR: Then that one is going to

1 be sealed over and plugged.

2 MR. BOLOURCHI: Thank you.

3 MR. SNELLGROVE: Yeah. The regulation
4 and the requirements for establishing a
5 replacement well requires that it be P and
6 A'd within a certain time period after the
7 new well has been installed.

8 MR. OWEN: Well, the question that we
9 will need to consider, and I suggest we don't
10 attempt to settle it tonight, is whether
11 there ought to be a statute of limitations
12 set on the age of a non-used replacement well
13 to still qualify as a replacement well, and
14 that's, that's as an exempt replacement well.

15 Moving on, unless somebody had
16 something else to add to that.

17 Moving on, the notice of intent
18 requirement regarding the feasibility of
19 using alternate water resources. The way
20 this is posed in this bullet point is, Should
21 the water well pre-installation notification
22 requirements for installation of water wells
23 be used for non-exempt purposes -- that is,
24 irrigation, public supply, industrial and so
25 forth -- include disclosure of the water well

1 owner's intent to use alternate water
2 resources?

3 And I would suggest that the intent
4 would be better replaced with consideration
5 of the feasibility of using alternate water
6 resources.

7 And there is no requirement at this
8 time for this pre-installation notice of
9 intent to note whether or not there was any
10 consideration, or, if so, what consideration
11 was given to the use of, say, surface water
12 instead of reducing ground water.

13 I would -- I have my own opinion on
14 this, and I would -- my own opinion is that
15 this would not be for very high capacity
16 wells. This would be an excellent thing to
17 require, and I think it should be done. I
18 suspect others have a different opinion.

19 MR. BURLAND: What's, what's the
20 purpose of disclosing the intent?

21 MR. OWEN: Well, it's just that where
22 industry, in particular, is located with
23 equal access to a river or a stream that
24 might provide the water supply, or ground
25 water, whether or not they considered the

1 feasibility, and, if so, what the analysis
2 was of using alternate supply.

3 MR. BURLAND: Do we do that now with
4 Haynesville, or is that a special reg that
5 was passed in that situation?

6 MR. SNELLGROVE: No, sir. What's
7 happening in Haynesville right now, or any
8 frac, is the disclosure after the fact of
9 where the water was sourced from. And it's a
10 reporting mechanism.

11 On the front end of that we issued an
12 advisory that encouraged operators to seek
13 alternative sources outside of the
14 Carrizo-Wilcox or the --

15 MR. BURLAND: But it's not a
16 requirement?

17 MR. SNELLGROVE: It's not a
18 requirement, only unless we evaluate a frac
19 location where we see that they are going to
20 pose an adverse impact or impact a nearby
21 well owner or what have you, then we would go
22 down the path of requiring additional
23 information, which may include water level
24 determinations, production reporting, and, if
25 needed, restriction.

1 MR. BURLAND: And the source of that
2 authority is what?

3 MR. SNELLGROVE: Statutory law.

4 MR. BURLAND: Oh, it's statutory not
5 issued since by regulation?

6 MR. SNELLGROVE: Statutory.

7 MR. ANGELLE: So on this issue, is it,
8 is it right to say -- I guess this is to John
9 Adams -- that a property owner has an
10 absolute right to capture water from his or
11 her property by following -- and a
12 requirement to follow these regs, that if the
13 decision, the evaluation of the impact to the
14 resource is such that the, the volume which
15 is being requested to be withdrawn, that the
16 evaluation of that, if, if it's, if it's a
17 passing grade, that they have an absolute
18 right under Louisiana law for that, and, is
19 it yes or is it no and --

20 MR. ADAMS: I would have to agree with
21 that statement.

22 MR. ANGELLE: And -- to finish -- and
23 that, and that no one, not the Commissioner,
24 the Attorney General, nobody, has a right to
25 say while you meet the requirement of not

1 having any negative impact on the resource,
2 we still want you to use surface water here?

3 MR. ADAMS: Reiterating the points
4 that you made, once a landowner complies with
5 the evaluation process, and the
6 pre-notification process and we have
7 completed our evaluation, then -- and he's
8 passed the evaluation, that's correct. He
9 has the -- he can, he can produce whatever
10 water he is able to capture, and we do not,
11 under current statutory law, have the
12 authority to direct him, other than through
13 requests that he seek alternate sources.

14 MR. ANGELLE: Okay. So in the
15 Haynesville where the guidance document was
16 issued saying, We do not want water from the
17 Carrizo-Wilcox and maybe the Upland Terrace
18 to be used for this specific purpose, the
19 reality of it all is that if a company makes
20 application for a well, a property owner
21 makes application for that use, whatever
22 amount of water it is, and an evaluation
23 procedure would, would yield that it is not
24 going -- and that area would not be a
25 negative impact, the Commissioner's guidance

1 document is, is just what it says, it's a
2 guidance document. And is it fair to say
3 that those folks who are cooperating, are
4 just going or just understand the impact and,
5 and to, you know, that certainly natural gas
6 extraction is dependent upon, on water
7 resources; that folks are just doing this to
8 be good citizens?

9 MR. ADAMS: The, the direct answer is
10 yes, all that's correct. However, in the
11 Carrizo-Wilcox aquifer, the evaluation
12 process will more likely than not simply
13 yield a yes, you passed. More likely than
14 not when our evaluation process is, is
15 concluded, we would end up sending them a
16 request for additional information. Some of
17 those other items on our checklist may have
18 been triggered so that it's -- before you
19 reach a, a yes answer in that particular
20 aquifer, there's going to be additional study
21 and additional information that's required.

22 MR. ANGELLE: Right. I understand.

23 MR. ADAMS: But, yes, sir, once you
24 reach that -- so once you reach the yes
25 answer then --

1 MR. ANGELLE: So what I'm trying to
2 facilitate what, what I understand why
3 Mr. Owen thinks it's a good public policy and
4 why Mr. Burland says why you asking for that
5 information. If I have an automatic absolute
6 right --

7 MR. BURLAND: And not just that, I
8 want to make sure that the disclosure of that
9 kind of information, absent a legal
10 obligation, doesn't subject -- doesn't affect
11 your decision-making process. If you see an
12 application that has no alternative use one
13 side-by-side with one that a guy voluntarily
14 says, oh, yeah, I can use the river next, you
15 know, whatever, well, if that impacts your
16 administrative decision-making process,
17 without a legal obligation for that -- for
18 them to go to an alternative source, I think
19 that's an injustice of some sort.

20 MR. ANGELLE: Well, it opens --

21 MR. BURLAND: Arbitrary and capricious
22 or whatever. You know, we have got to be
23 careful as administrators that you're
24 following the law.

25 MR. ANGELLE: Right.

1 MR. BURLAND: So I like the idea of
2 disclosure so that you can work it out like
3 you have voluntarily with the oil and gas
4 industry. But I don't want to -- I don't
5 know about a mandate that would, that would,
6 you know, force that disclosure, expose him
7 to people in the department that may say,
8 well, I'm going to say no, or go call him and
9 move him over, because I see that he can do
10 that. I don't know. I mean, that's a tough
11 issue, but that's the concern.

12 MR. ANGELLE: Right.

13 MR. LOEWER: I would think it would be
14 different in oil and gas. But to just add
15 additional information, for irrigation
16 purposes, if a person decided to dig an
17 irrigation well and come up with about
18 \$75,000, he has already concluded that there
19 is no other alternative, because any other
20 alternative would have been a lot less.

21 MR. BURLAND: Well, and that's --
22 you're stealing part of my presentation,
23 because these decisions are starting to move
24 out of the corporate boardroom who make those
25 economic decisions to a state agency with a

1 scarce resource. And I want to make sure as
2 administrators that you are not taking that
3 option away. That a company that comes here,
4 comes here for certain reasons, and, you know
5 free ground water. You know, that's an --
6 that's a jewel in our crown that nobody
7 really talks about. You don't have to pay
8 right now for ground water. And that
9 attracts certain industries. It's not on the
10 front page, but it's, it's not a fixed cost.
11 You know, that's why we've got, still got
12 paper mills here and other poultry
13 operations. But, you know, we're getting off
14 the subject.

15 But the point is, those are factors to
16 be considered. And I think you have to be
17 careful when you move in to more restrictive
18 regulation, what you are doing to the
19 economic development of, of some industries
20 that are here and some that want to come.

21 MR. ANGELLE: I guess, I would, I
22 would say that while it would be good to have
23 that information, I do agree that it, it
24 sends, it sends the executive branch into an
25 area that is contrary to what is an absolute

1 right that the legislature has spoke to, that
2 you have a right to capture the water from
3 your property, regardless of how many
4 alternative water sources are available to
5 you. If there are a hundred of them, you
6 could say, Damn them all. I have a right to
7 do this, and I'm going to do it as long as
8 I'm not having a negative impact on the
9 ground water. So, it's a tough issue. Tough
10 issue.

11 MR. OWEN: Can we just let it be known
12 that we are not in a hundred percent
13 agreement?

14 MR. ANGELLE: Sure. Absolutely.

15 MR. BURLAND: That's always the case.

16 MR. OWEN: The next item is revision
17 of -- is it necessary to -- somebody flip the
18 page there. Thank you.

19 Should the state considering revising
20 statutory or regulatory definition of
21 sustainability?

22 We talked about this for about 20
23 minutes this afternoon already.

24 Current definition of "sustainability"
25 under the ground water management law is,

1 quote, "The development and use of ground
2 water in a manner that can be sustained for
3 the present and future time without causing
4 unacceptable environmental, economic, social,
5 or health consequences. This is a general
6 set of criteria that leaves a lot of
7 latitude."

8 If an area is found to be an area of
9 concern, then existing statutory law, as I
10 understand it, adds to the Commissioner's
11 quiver in analyzing this sustainability for
12 each specific criteria; that is, is there a
13 subsidence of the land surface measured in
14 the area, is there evidence of ground
15 water -- of saltwater intrusion in the ground
16 water, and, third, is the, is there -- I have
17 forgotten the exact word -- but is there
18 excessive drawdown of the static water level.
19 Those three criteria. And I'm not -- what
20 I'm not sure about here is, is the excessive
21 term that I put in there. I'm not sure
22 that's part of law.

23 MR. SNELLGROVE: We typically don't
24 use the word "excessive," but for clarity, it
25 would be water level drawdown that would --

1 that are causing for adverse impacts.

2 MR. OWEN: Okay. So unless an area is
3 an area of concern, the general definition
4 applies as far as sustainability is
5 concerned.

6 The question for us in this bullet
7 point is that, Should the state consider or
8 recommend the statutory or regulatory
9 definition of "sustainability" be changed or
10 enhanced in some way?

11 MR. ANGELLE: So this seems to -- the
12 statute seems to kind of follow the
13 constitution to a degree. Article IX of the
14 constitution, which is also known as the
15 Public Trust Doctrine, says, The natural --
16 quote, The natural resources of the state,
17 including air and water, and the healthful,
18 scenic, historic and aesthetic quality of the
19 environment, shall be protected, conserved
20 and replenished insofar as possible and
21 consistent with the health, safety and
22 welfare of the people. The legislature shall
23 enact laws to implement this policy.

24 And so it seems like, like any
25 definition of sustainability has to be at

1 least consistent with the Public Trust
2 Doctrine. And I guess when we talk about
3 "the legislature shall enact law to implement
4 this policy," taking, for instance, air and
5 water. From, from, from a quality
6 standpoint, there are certain rules and
7 regulations that create limits of effluent
8 discharge and, and noxious emissions.

9 So, I guess you could continue on with
10 a -- trying to address Mr. Ted's issue of
11 some metrics here.

12 MR. MILLER: Mr. Chairman.

13 MR. ANGELLE: Yeah.

14 MR. MILLER: Yesterday at the CPRA
15 Board, the actual Attorney General's Office
16 put a presentation on -- it's not on? Am I
17 on now. Can you-all hear?

18 Okay. But in the presentation, they
19 were saying any decision rendered by the
20 Coastal Protection Resolution Authority had
21 to keep the Public Trust Doctrine in mind.
22 Anything dealing with the way water was
23 managed, whether it was sent through a
24 diversion project out into a marsh, or
25 whether that water was used for some other

1 purpose. So that it, actually, had to become
2 a part of any decision that was considered by
3 the Authority. And it said the same thing
4 held true for all agencies and all boards.
5 So everybody is bound by the constitution.

6 MR. ANGELLE: Oh, sure. Sure. So I
7 agree with that.

8 The question is --

9 MR. SPICER: Do we meet that?

10 MR. ANGELLE: Well, I think, I think
11 this meets that. I think you can, you can --
12 yeah, I think it meets it.

13 The question is, to go on to the next
14 part where it says in the constitution, "the
15 legislature shall enact laws to implement
16 this policy," the legislature has, has passed
17 laws to implement this policy. Can you go a
18 little bit further and say that
19 sustainability of a, an aquifer is defined,
20 and use the Arkansas model, to, to start
21 putting some parameters around it. I don't
22 know enough about how, how that would be
23 measured.

24 I do think it's good to have metrics
25 every way you can, but not have those metrics

1 box you in so that you can't go through some
2 extraordinary circumstances.

3 MR. SPICER: And we have discussed
4 this for hours in the past -- Jackie, Jesse,
5 and a group of us -- when we went through
6 this process several years ago. Well,
7 Jimmy --

8 MR. BURLAND: Yeah. If you could cut
9 and paste my comments from earlier into this
10 section, too, I would appreciate it.

11 MR. LOEWER: What's interesting about
12 the wording that's, that's listed in our, in
13 our material, is that while we take it to
14 mean it can't adversely affect them so we
15 have to be careful, it also means that if we
16 try to be too restrictive, it could also
17 adversely affect it, particularly economic
18 and socially. So it really cuts both ways.
19 Talking about meeting the needs of the
20 present and the needs of the future in these
21 four, in these four areas.

22 MR. ANGELLE: Well, I mean, when you
23 take a look at, again, shall we maintain
24 without causing unacceptable environmental,
25 economic, social, health consequences, that

1 tells me where our state has been on the
2 management of all of its natural resources.
3 It's all about balance. And, you know, you
4 can't, you can't protect the environment at
5 the absolute cost of the economy, and you
6 can't allow things with the economy at the
7 absolute cost of the environment. And nor
8 can you have the economy roaring and having
9 poor health situations.

10 So I think that I would like to see us
11 at least put, put a comment that there is at
12 least some, some discussion and some
13 disagreement among the Commissioners as to
14 whether or not additional metrics, and if
15 you-all could research with USGS models that
16 other states use for their sustainability
17 that has, that have metrics in it. And, and
18 I think the comment would be, is that, you
19 know, that's an area where we continue to
20 have debate about. And compare them to other
21 areas.

22 MR. BALKUM: Mr. Chairman, to back you
23 up on that, I wasn't privy to the earlier
24 actions of the Commission prior to, prior to
25 this one. But if I were an administrator

1 using this definition to make regulatory
2 decisions, I don't think it would be specific
3 enough to provide that sort of guidance to
4 make decisions. I find it to be pretty
5 vague. Maybe one administration would
6 interpret one way or another administration
7 another way.

8 Personally, I would like to see, as
9 you say, maybe a little more meat to that
10 definition, as difficult as it may be to do
11 that.

12 MR. ANGELLE: Right.

13 MR. BALKUM: That's my thought.

14 MR. OWEN: Mr. Chairman, I think that
15 we can hardly settle this lack of specificity
16 tonight or any time near future.

17 MR. ANGELLE: Right.

18 MR. OWEN: And I would caution the
19 Commission about opting for criteria, as has
20 been quoted earlier today, that allegedly is
21 Arkansas' criteria of sustainability, because
22 it has to do with so much the depth and
23 arrangement of the aquifer that you can
24 hardly use a drawdown criteria, for example,
25 to predict anything. Ultimately, a rapid

1 drawdown may put you so deep in some of our
2 aquifers that it's not feasible to pump the
3 water out, but you haven't, you haven't
4 proved that the aquifer is not sustainable
5 there.

6 And -- but I would suggest that we --
7 that there are ways to, to adopt criteria
8 that is more specific than the generalized
9 definition that we have. What I observed
10 Mr. Welsh do the other day in a meeting that
11 the way to get some specificity is to get
12 yourself declared an area of concern, then
13 you have got some specifics that go on.

14 But, but I think we would have to be
15 careful with a universal definition of
16 "sustainability" that is just one set of
17 criteria because of the difference in depths
18 and arrangements of the aquifers.

19 MR. ANGELLE: Right.

20 But, perhaps, to, to -- as a
21 compromise to build on to this, is, is that
22 the Commissioner of Conservation, the Ground
23 Water Commission, whatever is the right, may
24 be authorized to, to promulgate rules on a
25 aquifer-by-aquifer basis on, again, metrics

1 of sustainability.

2 I do think it is unfortunate that you
3 have to get -- you have to be declared an, an
4 area of ground water concern for that
5 specificity to apply.

6 MR. OWEN: Right.

7 MR. ANGELLE: You know.

8 MR. MAYS: Scott.

9 I think the aquifer-by-aquifer has a
10 lot of interest to me from the Sparta. We
11 are the sole source of our spot. We don't
12 have a river. We don't have a lake. We
13 don't have an alternative source of water.
14 Okay. So when you say critical, it's
15 critical for us.

16 So sustainability of the Sparta for us
17 is a lot more critical than it would be for
18 another aquifer that has multiple aquifers
19 that they can get to or rivers or lakes. We
20 don't even have a place in Lincoln Parish
21 that we could build one, if we wanted to.

22 MR. ANGELLE: Right. I understand
23 that. That's a very good statement.

24 What is your -- on this particular
25 issue, on sustainability issue, are you -- do

1 you like the adding the aquifer-by-aquifer
2 metrics?

3 MR. MAYS: I'm not -- I don't know. I
4 don't know if it's an aquifer-by-aquifer that
5 should have it, that definition or not, or if
6 there should be something more in the law
7 that gets the management of that resource
8 more controlled when you get to a point of
9 that.

10 MR. BURLAND: That was my thought.
11 You know, I just want to make sure we are not
12 being -- misdirecting ourselves or, you know,
13 convincing ourselves that "sustainability"
14 definition is the issue when, in fact, if
15 someone just wants more control of the
16 resource or more authority for you in an area
17 of concern, ground water concern, then that's
18 what we do. You know, if we want to shut the
19 faucet off of production or other ideas, or,
20 or well space-age or depth or whatever, in an
21 area of ground water concern, let's take a
22 look directly at that issue.

23 MR. ANGELLE: Yeah.

24 MR. BURLAND: I don't know that I want
25 to define "sustainability" to the point of --

1 MR. ANGELLE: No. It's --

2 MR. BURLAND: -- and the guy can't
3 drill.

4 MR. ANGELLE: Right. I understand
5 that. But, but isn't sustainability the, the
6 real issue when you are trying to get -- when
7 you are seeking area of ground water concern
8 designation?

9 MR. SPICER: Well, the real concern --

10 MR. ANGELLE: No, I know. But, but I
11 think -- you make a good point. You make a
12 good point. But if sustainability is the
13 issue -- let me ask. I need an answer.

14 Is that what ends up being on trial,
15 if you would, in, in area of ground water
16 concern, is, is sustainability becomes
17 questionable?

18 MR. SNELLGROVE: What would be the
19 trigger would be whether or not there are
20 these issues that Mr. Owen brought up about
21 water level decline to a point where it's
22 causing adverse impacts, saltwater
23 encroachment issues that are causing adverse
24 impacts, and, and subsistence -- and
25 subsidence issues.

1 If these things exist in a manner that
2 is posing problems for the social, economic,
3 health consequences, and environmental that's
4 unacceptable, then that would be somewhat
5 part of the basis for your determination or,
6 say, in the application of an area,
7 consideration for an area of ground water
8 concern. That's, that's the trigger
9 mechanism to get to that point where you make
10 the application for the Commissioner to put
11 all things under consideration.

12 MR. ANGELLE: All right.

13 MR. FREY: Can I ask a question,
14 before we leave this, and I don't want to
15 debate it any longer.

16 But, you know, sustainability comes up
17 in a number of resource arenas. I have dealt
18 with it before in other areas. And it's
19 difficult to put your finger on on what each
20 individual would assume is sustainable.

21 So I would question whether do we have
22 enough in the way of monitoring data
23 currently, do we have enough in the way of
24 modeling and inputs from models, to even be
25 able to set a metric standard for what's

1 sustainable? Let's get that in place first,
2 and then we can move beyond that. But I
3 don't think we are at a point -- at least I,
4 in my opinion, we are not. I don't think we
5 have got sufficient evidence to determine if,
6 in fact, this is sustainable, this is not.

7 We have seen from your own data some
8 dramatic shifts in surface water use versus
9 ground water use over the last five years.
10 We have actually seen less -- if I remember
11 correctly, data showed less ground water use
12 statewide over the less decade maybe, or it's
13 gone -- the actual consumption has gone down.
14 Seemed like I recall some data like that.

15 So, you know, I'm not convinced that
16 we have enough information, or at least I
17 don't, to try and tie down some kind of, you
18 know, precise definition. I think you have
19 got a good broad definition here, but we have
20 got to attach parameters and metrics later as
21 we accumulate more data. That's, that's my
22 perspective.

23 MR. OWEN: Kind of like the Chief
24 Justice observed about pornography. I can't
25 define it, but I know it when I see it. I

1 think I know --

2 MR. ANGELLE: Sustainability.

3 MR. OWEN: -- sustainability or lack
4 thereof when I see it.

5 MR. ANGELLE: Got you.

6 MR. FREY: Okay.

7 MR. ANGELLE: So the report will
8 reflect that sustainability in areas such as
9 the Sparta, where ground water -- there is no
10 alternative to ground water, is a -- is -- or
11 the lack of sustainability is not acceptable
12 in areas where there are no alternatives.
13 Okay.

14 MR. OWEN: Bullet point No. 6, the
15 next to last, is, Should resources be
16 provided to improve and increase availability
17 of the reservation well network and state
18 agency ground water level and quality data
19 through the DNR SONRIS GIS system?

20 MR. SNELLGROVE: That's a typo. The
21 word "reservation" should be "observation."
22 I apologize.

23 MR. OWEN: Observation.

24 MR. SNELLGROVE: Yes, sir.

25 MR. OWEN: I think most of us have

1 used --

2 MR. BURLAND: I say yes.

3 MR. ANGELLE: Yes.

4 MR. BURLAND: The answer is yes, I
5 guess.

6 MR. ANGELLE: Yeah.

7 MR. OWEN: Moving on to the last
8 bullet point, Should there be a request of
9 the legislature to develop a fund for the
10 development of aquifer-wide ground water
11 availability models?

12 MR. BURLAND: Yes. I vote yes.

13 MR. MAYS: Yes.

14 MR. ANGELLE: I would just add to
15 that, where on a priority basis for the most
16 challenged aquifers.

17 MR. BURLAND: Yeah. I think we talked
18 about that earlier.

19 MR. ANGELLE: Yeah, we did.

20 MR. MCKINNEY: Just prioritize those.

21 MR. BURLAND: Prioritize --

22 MR. ANGELLE: Not everybody gets one.
23 Not everybody wants one.

24 MR. OWEN: Mr. Chairman, that
25 concludes the Evaluation discussion.

1 MR. ANGELLE: Okay. I'm going to
2 suggest that we move the 4:45 to 5:40
3 discussion, which is now -- it is now 5:55 --
4 to tomorrow morning. And that Mr. Burland
5 pick up with Incentives at 8, which means we
6 may be in here just a little bit longer
7 tomorrow.

8 You okay with that?

9 MR. KILLEBREW: I second.

10 MR. ANGELLE: Motion by Spicer.

11 Second by Killebrew.

12 Any objection?

13 MR. BURLAND: I object. No.

14 MR. ANGELLE: Any discussion?

15 Okay. So we will go ahead and move
16 that. That motion is adopted.

17 And then I would go ahead and
18 entertain a motion to recess until tomorrow
19 morning at 8:00.

20 MR. BURLAND: Move.

21 MR. ANGELLE: Motion by Burland,
22 second by --

23 MR. MCKINNEY: Second.

24 MR. ANGELLE: -- McKinney.

25 Are we here tomorrow same building?

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MR. SNELLGROVE: Same.
MR. ANGELLE: Same place.
Any objection to the motion to recess?
Hearing none, then that motion is
adopted. See you tomorrow morning.

(MEETING RECESSED AT 5:56 P.M.)

1 STATE OF LOUISIANA

2 PARISH OF EAST BATON ROUGE

3 I, DONNA T. CHANDLER, Certified Court
4 Reporter and Registered Merit Reporter, do hereby
5 certify that the foregoing pages 1-287 of Volume I,
6 are a true and correct transcript of the Ground Water
7 Resources Commission Regular Meeting on January 19,
8 2012, as taken by me in Stenographic machine
9 shorthand, complemented with magnetic tape recording,
10 and thereafter reduced to transcript, to the best of
11 my ability and understanding, using Computer-Aided
12 Transcription.

13 I further certify that I am not an attorney
14 or counsel for any of the parties, that I am neither
15 related to nor employed by any attorney or counsel
16 connected with this action, and that I have no
17 financial interest in the outcome of this action.

18 Baton Rouge, Louisiana, this 26th day of
19 January, 2012.

20

21

22

DONNA T. CHANDLER, CCR, RMR
CERTIFICATE NO. 29002

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