

Concentrated Animal Feeding Operations,  
Sewage Treatment Plants, Stormwater

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AFTERNOON SESSION

2

(1:30 p.m.)

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CHAIRMAN WATKINS: The Commission will now

4

come back to order. We will commence the afternoon

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session with the Chairman of the Stewardship

6

Committee reporting on his seven items. So we will

7

turn it over to you, Paul.

8

COMMISSIONER SANDIFER: Thank you, Mr.

9

Chairman.

10

(Slide.)

11

Going to the agenda, we have seven items

12

that we want to complete this afternoon. All of

13

these deal in one way or another with water pollution

14

issues.

15

The first three in a row concentrate on

16

animal feeding operations, sewage treatment plants,

17 and stormwater. I would like to treat these as a  
18 group and go through the slides, get through all of  
19 the stuff at one time, and then have questions.

20 This afternoon we go from where we were in  
21 the stratosphere with global policy this morning to  
22 what might be termed the other end of the

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1 manuralsphere, perhaps, this afternoon. But these  
2 are important issues related to water quality.

3 First of all, concentrated animal feeding  
4 operations have become the dominant factor in animal  
5 production in the United States over the last two  
6 decades. They release incredible amounts of  
7 nutrients, principally nitrogen and phosphorus, but  
8 also pathogens directly into water supplies, into  
9 soils, and into groundwaters.

10 To put the problem into perspective, the  
11 USDA and the EPA estimate that the amount of  
12 concentrated waste, animal waste, produced in the  
13 United States is roughly three times, or a shade more  
14 than three times that amount of human waste generated  
15 in the entire United States.

16 So it is not a trivial problem when one  
17 looks at the issues of nonpoint source runoff,  
18 nonpoint source pollution of waters both as nutrients

19 and as a pathway of pathogens.

20 We have spent a fair amount of time

21 looking at these issues and really have some pretty

22 straightforward and simple recommendations here.

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1                   It appears that the current EPA rules for  
2 concentrated animal feeding operations are in pretty  
3 good shape. It also appears that states could do  
4 more if they wished to, and we will get to that in  
5 just a moment.

6                   The primary recommendations from the  
7 Stewardship Working Group are that:

8                   Congress should ensure that the full  
9 authorized funding within the 2002 Farm Bill  
10 Conservation Program is in fact made available, and  
11 that within that funding the USDA should target those  
12 funds as best it can to projects at concentrated  
13 animal feeding operations that would have the  
14 greatest water quality benefits.

15                   This is the kind of thing that would  
16 result in substantially measurable results,  
17 measurable improvements, or should result in  
18 measurable improvements in water quality with the

19 resultant impacts I believe not only of improved  
20 water quality but also the likelihood that the USDA  
21 would be able to continue funding for the long term.  
22 It shows very positive benefits.

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1                   Third, we recommend that the Federal  
2                   Government would implement the voluntary EPA/USDA  
3                   Unified National Strategy for Animal Feeding  
4                   Operations. That reaches the smaller 80 to 90  
5                   percent of these operations not currently regulated  
6                   by the EPA Rule.

7                   And finally, I reiterate the states can  
8                   use state law to control problem animal feeding  
9                   operations because they can enact more stringent  
10                  regulations than specified by EPA, or deal with  
11                  things on a site-specific local area by either zoning  
12                  or regulating density of operations, how close they  
13                  can be one to another, and so forth.

14                  That is essentially it on the concentrated  
15                  animal feeding operations.

COMMISSIONER SANDIFER:

Now we move to sewage

16 treatment plants, which is the human side of this.

17 Sewage treatment plants or publicly owned treatment

18 works, POTWs, is the term you often in the

19 literature, have greatly reduced sewage-related

20 pollution in American waters over the past 30 years.

21 This has principally been done under the Clean Water

22 Act.

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1                   Generally the Clean Water Act requires  
2                   treatment to secondary treatment standards. What we  
3                   see is a considerable need for additional funding  
4                   here, that the federal appropriations for Clean Water  
5                   Act state revolving fund capitalization grants,  
6                   currently funded between \$850 million and \$3.5  
7                   billion a year, needs to be continued. Certainly  
8                   there should be no diminution of these funds.

9                   There should be continued federal funding  
10                  in states to implement the Clean Water Act programs.  
11                  At the state level, program managers should be  
12                  directed to give highest priority to those projects  
13                  that protect public health on the large scale, and  
14                  secondarily obtain benefits for water quality  
15                  wherever possible. Move to the next slide.

16                  (Slide.)

17                  We, as you know, also have heard quite a  
18                  bit of testimony about waivers for secondary

19 treatment for ocean discharges as we have gone around  
20 the country. This is a specific issue related to  
21 ocean pollution by sewage.

22 We have heard lots of difficulties related

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1 to those waivers, but we've also heard from EPA some  
2 of the concerns they had that perhaps we had only  
3 gotten a part of the picture.

4 We suggest that EPA ensure that all  
5 publicly owned treatment works applying for such  
6 waivers fully meet all environmental criteria before  
7 EPA grants the waiver.

8 There is a great deal of suspicion, I  
9 would say, in the public's mind that we've heard as  
10 we've gone around that the criteria is of meeting  
11 primarily the economic criteria not environmental  
12 criteria, and we would like to see the environmental  
13 criteria given a great deal more weight. If you  
14 would move to the next slide.

15 (Slide.)

16 A third area of significant interest has  
17 to do with the advance treatment of nutrients,  
18 particularly nitrogen and phosphorous at publicly

19 owned treatment works.

20 This is an area where it becomes a bit

21 more site specific. Nitrogen and phosphorous are not

22 as great a problem in some waters as they are in

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1 others, but we have heard tremendous testimony and  
2 we've belabored it several times about the dead time  
3 in the Gulf of Mexico and some other places like the  
4 Chesapeake Bay and other major coastal water bodies  
5 that have been impacted by nutrients that include  
6 sewage discharges.

7                   We recommend that for those nutrient-  
8 impaired waters, the EPA and the Congress require  
9 consideration of advance nutrient removal. This is  
10 biological treatment to ensure nutrient removal prior  
11 to the discharge of the waste stream into the  
12 receiving waters. And, that EPA should continue  
13 research to improve biological nutrient reduction  
14 technology.

15                   (Slide.)

16                   Our final slide on this has to do with the  
17 problem of septic systems. Fully 25 percent of  
18 American residences and probably 30 percent or more

19 of new residential structures are not connected to  
20 centralized sewage treatment plants, but in fact are  
21 working on individual home-owned septic systems.

22 In some cases those septic systems are

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1 quite functional and do a very great job. In other  
2 cases, the systems are either inadequately  
3 constructed or inadequately maintained over the long  
4 term and contribute significantly to nonpoint source  
5 pollution of groundwater and, as that groundwater  
6 runs into surface waters, into  
7 coastal waters.

8           And so we are strongly recommending that  
9 the EPA and other relevant federal agencies urge the  
10 states and local governments to adopt and better  
11 enforce building and zoning codes for septic systems,  
12 and especially to improve public education about  
13 septic system maintenance.

14           This is an area that has received some  
15 attention but not quite as much as we believe it  
16 should, and certainly this could be picked up in our  
17 national education program as one more element of  
18 importance.

19                                   And we recommend that the National Academy  
20   of Sciences, National Research Council, should study  
21   whether economic and social factors or policies  
22   encourage new development that uses septic systems.

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1 If that is the case, then to help develop for the  
2 Nation policies or model policies that would promote  
3 centralized treatment where these wastes could be  
4 accumulated and better treated hopefully to the  
5 advanced treatment level before they are released to  
6 receiving waters.

7 That I believe covers the sewage treatment  
8 plants. Let me move quickly to two more issues  
9 related to sewage and to nonpoint source runoff.

COMMISSIONER SANDIFER:

10 Stormwater pollution. The magnitude of  
11 stormwater pollution is really a function of  
12 impervious area in a given watershed. In some cases,  
13 and in most cases, the inability of storm sewer  
14 systems or sewer systems to accumulate all of the  
15 stormwater that may run off in major rain events and  
16 pipe it to the treatment plant so it goes overboard,

17 so to speak, carrying with it loads of pollutants,  
18 nutrients, pathogens, sediments, and in many cases  
19 increased temperature, all of which have detrimental  
20 effects to the receiving natural waters.

21                   There is a fair amount of literature that  
22 demonstrates that when impervious services in a given

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1 watershed reach above 10 percent of the total area,  
2 you begin to see significant impairment of water as a  
3 result of stormwater runoff.

4           The impervious services means anything  
5 that doesn't allow water to penetrate: that is,  
6 paved roads and parking lots, sidewalks, rooftops,  
7 those kinds of things that shed water rapidly.

8           So we have looked at this in some detail  
9 and have made several recommendations here for  
10 increasing support and funding for outreach programs  
11 again that can inform local officials as well as the  
12 general public about how land use decisions affect  
13 aquatic resources.

14           We had a lot of discussion about whether  
15 this should all be regulatory or not, but again this  
16 is one of those areas where public education here is  
17 probably going to be much more effective than a  
18 regulatory hammer, so to speak.

19                   The overall goal should be to meet state  
20    water quality standards. We had long discussions  
21    about the natural environment. We suggest minimizing  
22    disturbances to the natural environment, where

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1 possible, and to determine the best areas to be  
2 preserved, taking into account this 10 percent rule:  
3 that water quality becomes increasingly degraded as  
4 impervious surfaces in the watershed increase above  
5 the 10 percent threshold.

6           And here we do suggest that the  
7 requirements be put in place either through national  
8 or state authorities that new development be  
9 conducted in such a way to minimize the impacts of  
10 stormwater, understanding that in order to minimize  
11 continued expansion of impervious surfaces in one  
12 area doesn't mean that you want to spread it out so  
13 much that every watershed gets 10 percent or more of  
14 impervious surfaces. That's why we talk about  
15 determining those areas that really need high degrees  
16 of protection and not have those degraded and work  
17 within existing work areas than to minimize the  
18 impacts of new construction.

19                   And finally here, to re-examine building  
20 codes and ordinances that may serve to discourage  
21 environmental-friendly development. I think both in  
22 the testimony before us and in testimony before the

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1     Pew Commission, there were a number of examples given  
2     where building codes that have been in place for a  
3     long time actually end up requiring more impervious  
4     surfaces for roadways, broader roadways and such than  
5     is really necessary for residential use.

6             And if those ordinances could be studied  
7     in a systematic way, they might be able to be  
8     improved or changed in such a way to still provide  
9     all the necessary safety and utility services, but  
10    with a decreased impact on the natural environment  
11    through stormwater runoff.

12            We also talked quite a bit about the  
13    potential to do things where new development is  
14    coming on. That is, new construction. New shopping  
15    centers, new residential areas, and so on. And in  
16    this case, because we know so much more now about the  
17    potential impacts, or the real impacts of stormwater  
18    runoff and its relationship to impervious surfaces,

19 that there be national performance-based goals  
20 established with the local flexibility to reduce the  
21 impacts during site development and to abate post-  
22 development impacts.

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1                   And, that best-management practices should  
2                   be used and monitoring should be done to determine if  
3                   the best management practices are in fact effective  
4                   at meeting their performance goals.

5                   And finally, if the goals aren't being  
6                   met--and that is, water quality goals--  
7                   then the best management practices should be  
8                   revised to get to where you're trying to with the  
9                   established goals, the performance goals.

10                  All of these are done of course at the  
11                  local--with local input of both people, both the  
12                  local people and the home building and development  
13                  industries.

14                  That, Mr. Chairman, I think pretty well  
15                  covers us from starting with the largest  
16                  concentration of nutrient pollution in the  
17                  concentrated animal feeding operations through

18 stormwater.

19 MR. EHRMANN: Very good.

20 COMMISSIONER SANDIFER: I believe that's

21 it--sorry, I missed one.

22 MR. EHRMANN: Oh, I'm sorry. Did you miss

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1 one?

2 COMMISSIONER SANDIFER: I missed one

3 slide.

4 (Slide.)

5 This was existing development. Basically

6 it's the same kind of thing. Monitor it, identify

7 the major problems. State and local governments

8 identify the local water quality objectives. Again

9 this is done at the local level.

10 And then it develops performance-based

11 goals. Once they've identified their water quality

12 objectives, utilize best-management practices and

13 local ordinances. And then monitoring to see whether

14 you are in fact having a beneficial effect.

15 I think in a number of our areas, not just

16 in the water quality area, we've found that what's

17 really lacking on the other end of technology

18 applications, or regulatory applications, is the

19 monitoring to see whether you are actually being

20 effective or not.

21 In these kinds of cases, the monitoring is

22 an essential element if you are ever going to improve

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1 water quality.

2 MR. EHRMANN: Commissioner Borrone.

3 COMMISSIONER BORRONE: Thank you.

4 I want to go back to the slide that says  
5 Clean Water Act Waivers on it. It talks about the  
6 EPA should ensure that all POTWs applying for the  
7 waiver fully meet all environmental criteria.

8 (Slide.)

9 I think that's very important. I just  
10 wondered whether your group had discussed any  
11 consideration of what happens when the waiver process  
12 is granted, when a waiver is granted, the length of  
13 time is granted for, and whether there should be any  
14 mechanism that EPA might have available to try to  
15 achieve compliance at some point at that end of the  
16 waiver cycle, first of all.

17 Then the second was: In a lot of the

18 testimony we heard on the subject there was  
19 expression of concern because of the lack of funding,  
20 basically in many of these cases, leading to these  
21 requests, lack of available funding.

22 I think you talked about funding

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1 shortfalls. Maybe you're going to do that in terms  
2 of the full water infrastructure program. But do you  
3 have an estimate for what the funding needs  
4 specifically are for the sewage treatment  
5 requirements versus the storm water portion in a way  
6 that might be able to be particularly targeted?

7 Really what I'm after is getting a sense  
8 of how long we might see these problems continue to  
9 persist without the application of sufficient  
10 available funding, or sufficient funding made  
11 available.

12 COMMISSIONER SANDIFER: Lilly, let me deal  
13 with the first part of that first.

14 We did have some discussions about the  
15 length of time of these waivers, but didn't end up  
16 with a recommendation. I think most of us would be  
17 very comfortable, if not all of us, would be  
18 comfortable with a recommendation that dealt with

19 that.

20                   In other words, if a waiver is given for a  
21 five-year period for something that at the end of the  
22 time it doesn't just get automatically approved

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1 because the sewage treatment authority doesn't have  
2 any money, because they'll always say they don't have  
3 any money to deal with this.

4 So that was one thing we did discuss, and  
5 we can reflect that better in here. There would be--  
6 perhaps the way we ought to put it is that the  
7 application for an extension of that waiver would  
8 require much greater extenuating circumstances  
9 than the initial application.

10 Secondly, the issue of cost here, I really  
11 don't have a handle on but I don't know whether Bob  
12 or Brooks has a handle on that particular aspect.

13 VOICE: (Inaudible.)

14 MR. EHRMANN: Go over to the mike.

15 Thanks.

16 BROOKS BOWEN: EPA periodically reviews  
17 the needs, capital infrastructure needs in  
18 particular, of the POTWs. Their most recent review

19 indicates a funding shortfall estimated at about

20 \$270 billion over the next 20 years for capital

21 infrastructure. That breaks down--

22 Now there are various economic assumptions

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1 that go into that, so you can, depending upon your  
2 assumptions about revenue to the POTW ratepayer rate  
3 increases, that sort of thing, the number can vary.  
4 But under almost any scenario it is a pretty big  
5 number.

6                   And the breakdown works out to be about  
7 one-third for actual POTW sewage treatment  
8 operations, including collector systems, and about  
9 two-thirds to address storm water related problems,  
10 which are principally combined sewer overflow and  
11 sanitary sewer overflow. So it breaks down.

12                   This is a national survey, so it breaks  
13 down about one-third for what is really POTW, and  
14 about two-thirds for what is basically stormwater  
15 related. So if you start with a number of  
16 \$270 billion and do the math, you've got about ninety  
17 for POTWs and twice that for storm water related  
18 needs.

19                           COMMISSIONER SANDIFER: Brooks, I am  
20       assuming that we could ask staff to refine those  
21       numbers specifically for the waivers that directly  
22       impact the marine environment.

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1                   BROOKS BOWEN: You mean the 301(h)?

2                   COMMISSIONER SANDIFER: We know about the  
3 Southern California and Puerto Rico situations in  
4 particular and what kinds of costs are associated  
5 there. Because it seems to me that part of that also  
6 has to do with not only the availability of money but  
7 where this comes to priorities in the state revolving  
8 fund--utilization of funds out of the state revolving  
9 fund.

10                  BROOKS BOWEN: With regard to the Section  
11 301(h) waivers, economics is not a consideration in  
12 granting those waivers. The underlying assumption is  
13 that these are discharges to the open ocean  
14 environment, and the POTW, the local community, must  
15 actively do research and make a demonstration to EPA  
16 that their discharge does not adversely affect the  
17 environment.

18                  They have to do local marine population

19 sampling, that sort of thing, and it can't affect  
20 recreational values either. So economics is not a  
21 factor in the 301(h) waivers.

22 MR. EHRMANN: Commissioner Rasmuson on

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1 that.

2 COMMISSIONER RASMUSON: Oh, I beg to  
3 differ with you on that. We were in California.  
4 They've got more waivers than you can shake a stick  
5 at. They've also got 35 to 40 House of  
6 Representatives there, too.

7 So we were down in, what was it, Danson,  
8 Ted Danson gave us a sign saying about all the  
9 pollutants going out of there, and we saw this was  
10 secondary. I think they had a big waiver out of Long  
11 Beach.

12 COMMISSIONER KELLY: Orange County.

13 COMMISSIONER RASMUSON: Orange County. I  
14 think, irrespective of whether you debate it or not,  
15 I think the recommendation--at least I've come to the  
16 conclusion--is, as you say, no sewer left behind.

17 We're going to have to have a massive,  
18 massive reconstruction of our sewer treatment plants

19 and runoff here in the United States in the next 20  
20 years. I think that's what you're really getting at.  
21 You are never going to attack it unless you do it  
22 like we did the highways back in the '50s and '60s.

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1 MR. EHRMANN: Commissioner Rosenberg?

2 COMMISSIONER ROSENBERG: Thank you. I  
3 have a few questions just to stick on the point about  
4 waivers.

5 I'm a little concerned about that criteria  
6 that says there is no impact on the marine life.  
7 Compared to what? I would be very concerned about  
8 how those studies proceeded.

9 It does seem to me that we need to be  
10 clear that if there is going to be a waiver, it is  
11 finite in period of time and that the requirement is  
12 that you actually show some progress towards  
13 improving the sewage treatment over time.

14 COMMISSIONER BALLARD: It already is a  
15 finite, isn't it? It's five years?

16 COMMISSIONER SANDIFER: Five years.

17 COMMISSIONER ROSENBERG: Yes, but it's  
18 renewable. And if you haven't shown demonstrable

19 progress that you've done something about it as  
20 opposed to, well, we've just done the same thing,  
21 let's get another five years, then the time limit  
22 doesn't mean anything.

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1                   It only means something if there has been  
2 a clear improvement. I mean clearly Bob and staff  
3 know a lot about this stuff, but I am rather  
4 concerned about those waivers as a long-term policy.

5                   If I could go back to the--

6                   COMMISSIONER SANDIFER: Andy, if I may,  
7 several Commissioners have raised this point. Let me  
8 ask staff on behalf of all of us to strengthen the  
9 wording here to get us a better understanding of the  
10 current legal circumstance, but make clear that this  
11 Commission would be recommending that waivers not be  
12 a standard order of business particularly in the  
13 marine environment, near-shore environment.

14                   This is something that should be the last  
15 option, not the first option.

16                   COMMISSIONER ROSENBERG: Thank you.

17                   If I could go back to CAFOs for a minute,  
18 this is a somewhat ignorant question but I don't

19 understand why, given the discussion we've had of  
20 sewage treatment facilities, that we then urge that  
21 we implement voluntary strategies for dealing with  
22 concentrated animal feeding operations when you've

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1 indicated that there is three times the waste coming  
2 from the human population.

3 And then we say, oh, well, this will be a  
4 voluntary strategy? That just doesn't make any sense  
5 to me that we shouldn't be moving towards mandatory  
6 standards with a clear, a much clearer program at  
7 least as strong as that that we are trying to put in  
8 place for sewage treatment.

9 Now I mean I know that there's a lot of  
10 EPA history here, and obviously a lot of political  
11 factors around this, but it just seems to me that the  
12 disparity between what we're talking about with  
13 sewage treatment and what we're talking about with  
14 CAFOs is a little bit too great for me to really  
15 understand the logic.

16 I'll just go through all of the comments.  
17 I only have a couple more.

18 Similarly on advanced treatment of

19 nutrients, I thought the wording on "EPA and Congress  
20 should require consideration of advanced nutrient  
21 removal" was a little weak. It read like an  
22 international agreement to me.

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1                   I mean "consideration"? There has to be  
2 something more there. So I just trust that in the  
3 text when we say "consideration," there is some  
4 standard that they're trying to meet and that you  
5 actually have to make efforts to meet that standard.

6                   On septic systems and on watershed  
7 protection in general, storm water, I was concerned  
8 that there was nothing about research and technology  
9 development. Living in a community that largely  
10 relies on septic systems, you know, what doesn't seem  
11 to be occurring is someone figuring out a better way  
12 to do this. It is a matter of maintenance, but I  
13 can't believe that putting a concrete tank  
14 in the ground and having a leachfield is the very  
15 best technology that we can imagine for individual  
16 households.

17                   And I don't know where the research and  
18 technology development program is, but it seems like

19 that is something that this Commission should urge  
20 that we have better development of both septic  
21 system, or private sewage treatment, and storm water  
22 management systems as an important technology need

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1 for the country.

2 COMMISSIONER SANDIFER: Point taken.

3 MR. EHRMANN: Yes, Mr. Chairman.

4 CHAIRMAN WATKINS: Paul, a couple of  
5 points for clarification.

6 On my crib sheet here I don't see one of  
7 them items I saw on a slide. I think it was the  
8 second slide on concentrated animal feeding  
9 operations which said something to the effect that  
10 states have the authority to control CAFOs, or  
11 something like that.

12 It was a bullet: States can use state  
13 law.

14 Is that a recommendation? Or is that a  
15 statement.

16 COMMISSIONER SANDIFER: It's--

17 CHAIRMAN WATKINS: Or what was intended

18       there?

19                               COMMISSIONER SANDIFER:   Let me back up

20       just a little bit, and staff can correct me if I'm

21       wrong.  There's a small percentage of CAFOs that truly

22       turn out a huge amount of waste.  Those are regulated

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1 under federal EPA regulations, under NPDS permits  
2 directly as point source dischargers, and they have  
3 pretty stringent standards that they've got to deal  
4 with.

5 The smaller ones--that's the sort of  
6 Mexican standoff or gentleman's agreement, depending  
7 on where you happen to be in this between USDA and  
8 EPA where the environmental groups are suing on one  
9 side, the farm groups are suing on the other side,  
10 and EPA is in the middle. That has to do with all of  
11 these others that are not fully regulated by EPA.

12 It's a whole bunch of smaller operations,  
13 and that is a case where the additional regulation  
14 may need to be placed. The telegraphic nature of the  
15 final recommendation here should be that this  
16 Commission recommends that states use their existing  
17 legal ability under state law to promulgate even more  
18 stringent rules than EPA has in place as needed in

19 those specific localities. That's what it's meant to  
20 be.

21                   CHAIRMAN WATKINS: Well we're going to  
22 change that to read that?

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1                   COMMISSIONER SANDIFER: It was just trying  
2 to save a slide here is what it was trying to do.

3                   CHAIRMAN WATKINS: So there is a  
4 recommendation. All right.

5                   COMMISSIONER SANDIFER: Do you think  
6 that's covered it, more or less?

7                   CHAIRMAN WATKINS: Yes. I understand.

8                   The other one is, when we go over to  
9 sewage treatment plants, and I think it was maybe the  
10 fourth slide, it talked about advanced treatment of  
11 nutrients.

12                   It says that EPA should continue. Does  
13 that say that current research and biological  
14 nutrient production is adequate? It says to me that  
15 it's fine. We just continue it. Is that what you  
16 mean? Or is it accelerate? I don't know. I'm just  
17 asking the question.

18 VOICE: I don't think we made that

19 distinction, sir.

20 COMMISSIONER RASMUSON: But is it about to

21 end?

22 CHAIRMAN WATKINS: That's not a

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1 recommendation, then. Everything's fine.

2 COMMISSIONER SANDIFER: The concern here

3 is--

4 CHAIRMAN WATKINS: By the way, when staff

5 comes up to talk, please introduce yourself. Tell

6 them who you are, because the recorder doesn't know

7 who is speaking. So let's do that.

8 COMMISSIONER SANDIFER: The concern is I

9 think that there's not any immediate threat to this

10 research area, but it has not received as much

11 attention. And if we as a Commission paid some

12 attention to it and said it ought to be continued, we

13 can just as easily say expanded or accelerated. At

14 least it would draw some attention to the problem of

15 advanced treatment specifically to remove nutrients

16 that are causing problems in our already impaired

17 waters.

18 So the intent was to say more research is

19 needed in this arena. And if that would be a better  
20 statement, then that's fine.

21 CHAIRMAN WATKINS: But doesn't it apply  
22 across the board on a number of nutrient reduction

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1 initiatives as opposed to just this in sewage  
2 treatment plants?

3 COMMISSIONER SANDIFER: Absolutely.

4 CHAIRMAN WATKINS: So my feeling is that  
5 there ought to be a broader recommendation. It's my  
6 understanding from testimony we've received that  
7 there is inadequate research devoted to nutrient  
8 reduction and that it needs to be enhanced.

9 So maybe it doesn't appear here, but it  
10 seems to me it ought to pop into view as a larger,  
11 maybe even a REMO-related issue.

12 COMMISSIONER SANDIFER: We will construct  
13 a plant and pipeline to send that particular thing to  
14 REMO. No, actually it is a broader research issue  
15 that should come under the area of research that is  
16 under the fate and control of nonpoint source  
17 nutrient loading on nutrients, I guess.

18 MR. EHRMANN: Commissioner Muller-Karger?

19 COMMISSIONER MULLER-KARGER: Thank you.

20 The point I want to raise is maybe small on a  
21 national scale, but probably very important in local  
22 and regional scale.

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1                   When we were up in the State of Washington  
2           several people told us in  
3           testimony about the problems of cross boundary sewage  
4           and that there are some issues with  
5           discharges coming out of Canada that are not treated  
6           and that are dumped into Puget Sound. So that's one.

7                   I know that there are similar issues in  
8           the Gulf of Mexico with Mexico and along the border.  
9           So these are small problems, but they do add an  
10          international dimension to what we're talking about,  
11          and I want to make sure we do include that.

12                   There may be an important leadership issue  
13          here that we can show as examples of how to deal with  
14          things in cross-boundary problems.

15                   MR. EHRMANN: Commissioner Rasmuson?

16                   COMMISSIONER RASMUSON: I sort of agree  
17          with you, and I think that if we ever do go ahead and  
18          do a massive--recommendation of a massive restructure

19 of our sewage treatment plants, we've got to include  
20 our neighbors in it, too, and give them the money to  
21 do it. Because you're absolutely right. You can  
22 clean up everything you want in Southern California,

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1 but if Tijuana can't clean up it doesn't make any  
2 difference.

3 What we heard in Puget Sound is, you can  
4 do all you want in Puget Sound, but if Victoria  
5 doesn't have the money they're a big factor there and  
6 they've got to be a part of the whole process.

7 COMMISSIONER MULLER-KARGER: I'm concerned  
8 that--I mean I'm glad that the cost issue came up  
9 before. We did talk about this in our Working Group  
10 extensively. I'm not sure exactly which way we're  
11 going, but from my own perspective I  
12 would like to see that some of these costs, both the  
13 explicit costs of improving the sewage treatment  
14 plants and the implicit costs on the environment that  
15 we just don't take into account whenever something is  
16 damaged. Those things have to be paid by the users  
17 of the water and whatever we discharge.

18 So we need to start thinking in this way

19 if we're going to be able to pay for these repairs

20 and improvements.

21 MR. EHRMANN: Any other comments on this

22 first set of three issues?

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1 (No response.)

2 MR. EHRMANN: Okay, staff, any other

3 questions? Got it? Good.