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TRANSCRIPT OF MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT
Held on
Tuesday, February 14, 2017,
at West Hawaii Civic Center, Council Building A,
Council Chambers, 74-5044 Ane Keohokalole Highway,
Kailua-Kona, Hawaii 96740
9:29 a.m.

REPORTED BY: PAIGE CHRISTIAN, CSR 426
Registered Professional Reporter
Certified Realtime Reporter

**Approved by Commission on
Water Resource Management
at the meeting held on
May 16, 2017 - approved as amended
See page 264 (attached) for amendment**

1 very important, kind of, shot across the bow that
2 they've given us and that we should be happy to have,
3 because we need to keep our eye on these questions so
4 that we -- we really protect the Hawaii that we love.

5 So, again, thank you, everyone, for -- for all of
6 your time and thought and for making this process
7 better.

8 So, with that, take a vote. All right. All in
9 favor of the motion as amended. Aye.

10 MR. PAVAO: Aye.

11 MR. BUCK: Aye.

12 MR. BALFOUR: Aye.

13 MR. HANNAHS: Aye.

14 CHAIRPERSON CASE: ~~Opposed~~ Aye.

15 MR. BEAMER: Opposed.

16 CHAIRPERSON CASE: Thank you.

17 So, the motion to adjourn.

18 MR. PAVAO: Motion to adjourn.

19 MR. HANNAHS: Second.

20 CHAIRPERSON CASE: All in favor. Aye.

21 MR. BUCK: Aye.

22 MR. BEAMER: Aye.

23 MR. BALFOUR: Aye.

24 (Proceedings adjourned at 4:35 p.m.)

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APPEARANCES

MEMBERS:

SUZANNE D. CASE, CHAIRPERSON

MILTON D. PAVAO

MICHAEL G. BUCK

KAMANA BEAMER

WILLIAM D. BALFOUR, JR.

NEIL J. HANNAHS

DEPARTMENT OF HEALTH'S DESIGNEE:

KEITH KAWAOKA

DEPARTMENT OF THE ATTORNEY GENERAL:

LINDA CHOW, ESQ.

SPEAKERS:

LENORE OHYE

KEITH OKAMOTO

KALEO MANUEL

LEIMANA DAMATE

HARRY KIM, MAYOR

RUTH ALOUA

BO KAHUI

ROY HARDY

1 SPEAKERS CONT'D:
2 TAMMY DUCHESNE
3 PAULA CUTILLO
4 PETER FAHMY
5 JONATHAN LIKEKE SCHEUER
6 KEN MELROSE
7 DORI INGALLS
8 FRED CACHOLA
9 TERESA NAKAMA
10 PETER YOUNG
11 TANYA POWER
12 TAIMIROA PAJIMOLA
13 KIMBERLY CRAWFORD
14 LOWREY POWER
15 KAMALANI D.
16 DAVID HONMA
17 SHARON WILLEFORD
18 RICK VOLLSTEDT
19 REGGIE LEE
20 JOHN KENNEDY
21 SHANNON RUDOLPH
22 NANCY BURNS
23 MANA PURDY
24 JANICE PALMA-GLENNIE
25 THOMAS YEH

1 SPEAKERS CONT'D:

2 ALEX LEONARD

3 RILEY SMITH

4 GRETCHEN OSGOOD

5 DAVID RAIKOW

6 IAN SWEET

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1 TUESDAY, FEBRUARY 14, 2017; KAILUA-KONA, HAWAII

2 -o0o-

3 CHAIRPERSON CASE: Good morning, everyone.
4 Welcome. This is the February 14, 2017, meeting of the
5 Commission on Water Resource Management here, in Kona.
6 Happy Valentine's Day.

7 Our agenda has minutes and then the -- the first
8 item on the agenda, just so everybody's on the same
9 page, is the action and acceptance of the County of
10 Hawaii Water Use and Development Plan Update Phase 2,
11 and then after that, we have the petition for the
12 Keauhou Aquifer System Area. So, with that, we're
13 going to start with the approval of the minutes.

14 Board members, commissioners, do you have any
15 comment?

16 Let's start with the August 16, 2016, minutes.

17 Any comments on the August 16, 2016, minutes?

18 I have a motion to approve.

19 Is there a second?

20 MR. PAVAO: Second.

21 CHAIRPERSON CASE: Any testimony?

22 All in favor. Aye.

23 MR. PAVAO: Aye.

24 MR. BUCK: Aye.

25 MR. BEAMER: Aye.

1 MR. BALFOUR: Aye.

2 MR. HANNAHS: Aye.

3 CHAIRPERSON CASE: September 21, 2016,
4 minutes.

5 Any comments on those?

6 Is there a motion to approve?

7 How about testimony?

8 All in favor. Aye.

9 MR. PAVAO: Aye.

10 MR. BUCK: Aye.

11 MR. BEAMER: Aye.

12 MR. BALFOUR: Aye.

13 MR. HANNAHS: Aye.

14 CHAIRPERSON CASE: November 15, 2016.

15 Any comments on those?

16 No.

17 Any testimony?

18 All in favor. Aye.

19 MR. PAVAO: Aye.

20 MR. BUCK: Aye.

21 MR. BEAMER: Aye.

22 MR. BALFOUR: Aye.

23 MR. HANNAHS: Aye.

24 CHAIRPERSON CASE: December 20, minutes,
25 2016.

1 MR. PAVAO: Move to accept.

2 CHAIRPERSON CASE: Any testimony?

3 All in favor. Aye.

4 Thank you very much. Okay. Item B.1 on the
5 agenda, acceptance of County of water -- Hawaii Water
6 Use and Development Plan Update Phase 2, Keauhou
7 Aquifer System Area.

8 MS. OHYE: Good morning, Commissioners.
9 Agenda Item B.1 requests your acceptance of the Phase
10 -- Phase 2 -- okay.

11 Good morning, Commissioners. Agenda Item B.1 is
12 -- requests your acceptance of Phase 2 of the County's
13 water use and development plan.

14 If you recall, back in August 2015, here, in Kona,
15 you gave preliminary acceptance for the Phase 1 part of
16 this plan, which outlined the demands to be met in the
17 area of Keauhou. And the findings from Phase 1 was
18 that authorized planned use would be about 28 mgd. And
19 so, this second phase is the County's strategies to
20 meet those demands.

21 So, just a bit more background. On January of
22 2016, you took a look at the County's proposed project
23 description for Phase 2, suggested some amendments to
24 it, and based on those comments, the County has gone
25 ahead. And so, again, we're looking at meeting 28 mgd,

1 about, of authorized planned use, and this 28 also
2 includes the Department of Hawaiian Home Lands
3 reservation request that you granted for 3.398 mgd.
4 So, that's also included.

5 So, the plan outlines the near-term infrastructure
6 development plans. It's part of the CIP. And it also
7 looks at longer term conceptual strategies for meeting
8 demands. So, basically, the long-term strategy is to
9 go farther south and develop high level water towards
10 the southern part of the aquifer system. And so, the
11 general strategy here is to move water from the south
12 to the north and from mauka to makai.

13 And you can see -- we've given you maps here of
14 the -- that shows how the County plans to move water
15 over the longer term. The arrows indicate how the
16 water will be moving from the southern part of the
17 aquifer, generally, to the northern part to meet
18 demands. The blue dots are the areas of anticipated
19 future water demands.

20 So, on November of last year, couple months ago,
21 the County did brief you on the draft Phase 2. You had
22 some comments. The three major comments were
23 concerning watershed protection, source interference,
24 and also the process for private well approvals. And
25 so, based on those concerns you raised and those

1 issues, the County has updated the Phase 2 draft plan.
2 You have a copy of that as an exhibit, and the changes
3 are shown on your draft in Exhibit 6.

4 So, just a little note about the Department of
5 Hawaiian Home Lands reservation request. How that is
6 going to be protected in a nondesignated area was a
7 question that was raised, and so, the staff is keeping
8 track of the reservation request in its Water Resource
9 Protection Plan. All the counties should understand
10 that that request is out there. When -- if and when
11 the aquifer is designated, then we will proceed with
12 rulemaking under 174C-49 --

13 (Whereupon, the reporter interrupts to
14 preserve the record.)

15 MS. OHYE: We'll proceed with rulemaking
16 under HRS 147C-49 for the -- turn that reservation into
17 an actual rule. That's the process laid out in the
18 Water Code, and that reservation will then be detracted
19 from sustainable yield along with existing uses.

20 So, in summary, the Phase 2 fulfills the project
21 description that you approved, and it also -- it also
22 -- this approval and acceptance would allow the County
23 then to have some assurance that they can package Phase
24 1 and Phase 2 together into one complete document that
25 will then go through the County's approval process.

1 And so, that concludes the staff's presentation.
2 We're recommending that you accept the Phase 2 for the
3 purposes of allowing the County to take it through
4 their own adoption process. If the County does approve
5 that plan, then it comes back to the commission where
6 again we'll hold a formal public hearing in Kona and
7 then submit it to you for formal adoption after that.

8 I just want to read into the record two
9 testimonies we received prior to this meeting. You
10 might have other testimonies that were submitted more
11 recently. These came in from the National Park
12 Service. You have a copy of their testimony, dated
13 January 23rd, in front of you, as well as from -- the
14 Aha Moku Advisory Committee has submitted testimony,
15 dated February 6. So, you should have those two
16 testimonies also in front of you. And that concludes
17 the staff's presentation.

18 CHAIRPERSON CASE: Thank you.

19 Commissioners, do you have any questions?

20 MR. BEAMER: Is Keith going to also come up,
21 or are you --

22 MR. OKAMOTO: No.

23 MR. BEAMER: No.

24 MR. OKAMOTO: Good morning. Keith Okamoto,
25 Manager-Chief Engineer, Department of Water Supply,

1 County of Hawaii.

2 MR. BEAMER: Thank you, Keith. Again, I
3 think this whole process has really -- you know, you
4 guys have really improved your planning and efforts and
5 really consulted a lot of data, reached out to a number
6 of (indiscernible), so I applaud your efforts.

7 My question is actually a little more immediate
8 but, you know, moving the wells further south, I guess,
9 was the plan (indiscernible) described here. I was
10 wondering if you could comment. Probably the last
11 several weeks driving through Kona, I noticed there's
12 25 percent water reductions up mauka and wondering if
13 this -- that relates to this plan or what the impetus
14 with that is --

15 MR. OKAMOTO: Okay. Great question,
16 actually.

17 MR. BEAMER: I think your mic is off.

18 MR. OKAMOTO: Oh. Is it on? Okay.

19 CHAIRPERSON CASE: Just talk closer. If you
20 can move it closer.

21 MR. OKAMOTO: Hello. Okay. Well, I'll just
22 speak louder.

23 So, basically, that is a separate issue. That's
24 an operational issue. So, what happened with the water
25 restriction in the area was due to four out of our

1 seven high level wells being inoperable concurrently.
2 So, that did put a strain on our operations. So,
3 basically, we needed to request that our customers cut
4 back their use so that we could maintain continuous
5 service to everybody in the region. So, that's really
6 what that restriction was related to, not so much the
7 water use and development plan.

8 MR. BEAMER: But, it -- the issues are going
9 to get resolved in the plan, or it's just a matter of
10 fixing the existing --

11 MR. OKAMOTO: Yeah. So, the first order of
12 business for us is to get those wells repaired, back
13 into service, and that will help our operations resume
14 its normalcy, basically. And that -- so for the water
15 use and development plan is -- in addition to that, our
16 plans are to construct two additional wells in the
17 high-level aquifer but to the south, and that will
18 further provide redundancy in our system and reduce our
19 reliance on the basal sources, as well, so that we can
20 provide more higher quality water from the mauka side
21 to the region, if that makes sense.

22 MR. HANNAHS: I have two questions with
23 respect to watershed protection. Number one, have you
24 calculated the impact of ROD on recharge?

25 MR. OKAMOTO: I guess I'm maybe not quite

1 understanding the question. The calculation of --

2 MR. HANNAHS: Would not the ohia trees
3 provide superior watershed quality and enhance the
4 capture? And if they die in large numbers, what
5 happens to that capture and to recharge?

6 CHAIRPERSON CASE: Could you explain ROD?

7 MR. HANNAHS: Rapid ohia death.

8 MR. OKAMOTO: Rapid ohia death. Yeah. We
9 have not on our end participated in that research. Our
10 understanding is that the native forests are supposed
11 to have a better rate of capture than the invasive, so
12 we're just taking that as truth at this point. But, as
13 far as a specific evaluation on our end, whether or not
14 the ROD, rapid ohia death, has an impact on our
15 recharge and the possible sustainable yield rates in
16 various regions, I guess, that might be a better
17 question for -- for Roy folks on efforts in that
18 regards.

19 MR. HANNAHS: If it does, does it shake any
20 of your confidence in your predictions or projections
21 of sustainable yield?

22 MR. OKAMOTO: Sure. If, you know, numbers --
23 new numbers come out that it affects the sustainable
24 yield, I think we'll have red flags on our end,
25 definitely.

1 MR. HANNAHS: And if it does, does it -- does
2 it indicate there might be more cost stewardship to
3 mitigate this issue?

4 MR. OKAMOTO: Sure.

5 MR. HANNAHS: So, that leads to the second
6 question. You know, there was a good discussion in the
7 staff submittal about when you use water, we need to
8 give back to the resource from which we're taking.

9 MR. OKAMOTO: Uh-huh.

10 MR. HANNAHS: And the language in the plan
11 includes an encouragement of users to invest in
12 stewardship. And I didn't see in the revision any --
13 that that was addressed.

14 Are we -- is there a way, a mechanism that you've
15 considered, to really require more investment from all
16 users of the system, you know, in back into the
17 watershed so we create an abundance and mitigate these
18 risks that would diminish the resource --

19 MR. OKAMOTO: Right.

20 MR. HANNAHS: -- is that not fair?

21 MR. OKAMOTO: No. That's a fair question.
22 Fair question. So, things that we talked about as far
23 as how we can contribute to that effort is -- you know,
24 we understand that it's a -- it's a very real and very
25 -- what do you call? -- a valid concern. So, things

1 that we've talked about -- and we haven't really gone
2 into the details yet, but in order to provide such a
3 funding, we've done -- and for our utility, we need to
4 go through the public hearing process. We have a
5 governing water board that we need to present our ideas
6 to and things like that.

7 So, we've had preliminary discussions already of a
8 potential water rate, a special water rate, that could
9 feed into a watershed protection plan. So, that's
10 something we're thinking about.

11 We have a four-block rate structure, so in other
12 words, the more water you use, the higher the rates
13 become, partly to encourage conservation, good
14 practical use of -- you know, the highest best use for
15 this quality water. Our first rate is actually a --
16 it's almost like a sale rate, where it's lower than the
17 cost of service, actually. So, it's even more of an
18 incentive to encourage conservation. And then, on the
19 other end, the fourth block rate is an elevated rate to
20 discourage via financial means the wasteful use of
21 water.

22 So, one thing that we're thinking about is maybe
23 supplementing that fourth block rate and having, maybe,
24 a surcharge. And these are things that we need to go
25 through the process and vet through the public hearing

1 process with our water board. But, that's some of the
2 ideas that we've been tossing around at this point, and
3 that that fund could specifically go into watershed
4 management, you know, not to be used for anything else.
5 It would go into a special fund. And what we -- you
6 know, then what we would probably need to do is enter
7 into MOUs with various watershed partnerships or the --
8 like Three Mountain Alliance, because we like -- if
9 there's a fund created, we'd like that to be used in a
10 specific location, where it could service, you know,
11 the community the best way. So, that's things we're
12 talking about.

13 MR. HANNAHS: Just comment that if our
14 policies -- respective policies are to protect
15 traditional customary practices, it's not just at the
16 activity level of a gathering. It is at the world view
17 level. At the world view level, it begins with a sense
18 of reciprocity in the sense that you cannot take
19 without accepting the kuleana to give.

20 MR. OKAMOTO: Right. Understood.

21 MR. PAVAO: During several of these meetings,
22 there was some extreme concerns about the current
23 levels in the Kahaluu Shaft.

24 With the development of the southern high-level
25 wells, it is your intent -- or is it your intent to

1 supplement, or even replace, the Kahaluu Shaft, at
2 least supplement, to bring the current levels down?
3 And if that's the plan, could you, kind of, briefly
4 explain how you intend to do it so that Kahaluu Shaft
5 no longer becomes a problem?

6 MR. OKAMOTO: Okay. Thank you for that
7 loaded question, Mr. Pavao. You have no former
8 background in this seat.

9 But, anyway, so as we all know, the shaft was a
10 terrific gift from the State that we gratefully
11 accepted back in the '70s that didn't quite pan out the
12 way we had hoped it would. But, yeah. So, basically,
13 our -- what we're trying to do for the long-term -- and
14 this is, you know, again, for the whole benefit -- our
15 stewardship for future generations. We want to make
16 sure that this high-quality water in the whole region
17 is available for generations down the road, after we're
18 long gone, and everything like that.

19 So, our intent is definitely to move away from our
20 basal sources because of the chloride levels.
21 Fortunately, that high-level aquifer was discovered.
22 So, that is our plan, is to move a more heavy reliance
23 on that mauka.

24 But, as you know, these are mechanical
25 infrastructure that break down, and we've recently seen

1 four went down in a relatively similar timeframe. And,
2 you know, when things like that happen, we still need
3 to go back and utilize those sources that we prefer not
4 to, but we have to in order to provide the service that
5 we do provide.

6 You know, we're kind of proud to report that even
7 with those wells down, nobody lost water. There may
8 have been a few cases where people experienced reduced
9 pressure, but we were able to still provide all our
10 customers with the water that is a potable water
11 quality. I want to clarify that even with the
12 chlorides, it does meet all the potable water quality
13 standards. So, but our intent is to minimize our
14 dependence on those sources -- the basal sources.

15 MR. PAVAO: Just out of curiosity, I think,
16 for the commission's information, what four wells are
17 down?

18 MR. OKAMOTO: So, we brought one of them back
19 up. One that we brought up recently is the Queen
20 Liliuokalani Trust. The other one that is down is
21 Hualalai, Palani Ranch, and Waiaha. So, GLT is what we
22 call Queen Liliuokalani Trust. That was repaired. And
23 we have Waiaha under contract for repair. And Hualalai
24 is also being prepared for bid process, and we're
25 working with our engineers to develop a bid process for

1 the repair of the Palani Ranch Well, also.

2 MR. BEAMER: Mahalo, Keith. Building off of
3 Milton's question, you know, this plan -- a portion of
4 this plan sort of relies on going towards these
5 high-level wells and moving away from, you know, the
6 basal lens, the Kahaluu shaft (indiscernible). And you
7 kind of explained four out of the seven are out right
8 now, so that's over half.

9 I'm just wondering, you know, as a commissioner,
10 we're going to, you know, approve this plan that calls
11 for high-level water moving away from the basal.

12 But, is there -- four of seven are down.

13 Is there more complexity in dealing with these
14 high-level water management issues, keeping the wells
15 alive?

16 If you can, sort of, speak towards that, because
17 that's what we're banking on for future water source
18 for this side of the island. So, we need to be fairly
19 certain that it is something we can achieve, that we
20 can accomplish.

21 MR. OKAMOTO: That is a terrific question.
22 So, actually, it is -- it does present different
23 challenges from basal sources. Basically, because of
24 the high level, the elevation that we need to pump.
25 So, these are high force power, high head

1 infrastructure under a lot of stress, maybe 700
2 horsepower lifting 1,600 foot elevation. So, you know,
3 there's mechanical stresses.

4 So, basically, what we've tried to do to help our
5 situation knowing that this is the case that we're
6 dealing with, we've had -- we put out bids for spare
7 pumps and motors to have some standing by.
8 Unfortunately, not all these wells operate the same.
9 Some of them have different size casing, so you can't
10 fit a certain well and pump from one hole to the next.
11 They're specifically designed based on the head that
12 its lifting to operate at an optimal power efficiency
13 range to have certain impeller sizes, things like that.
14 So, each one is almost a custom build.

15 So, that's the challenge, and that's one that we
16 understand that we need to be responsible for,
17 basically, to continue to provide service to the
18 region. So, you know, it's something that we need to
19 build into our budget, into our planning, but...

20 MR. BEAMER: We're learning enough and you're
21 confident we'll be able to make that transition?

22 MR. OKAMOTO: Yes. We're confident. We're
23 also very hopeful in a potential new resource, right,
24 that's been recently discovered, and that would help
25 alleviate some of those challenges, that midlevel, deep

1 set, confined aquifer. So, you know, we like to
2 continue to partner with the commission. We're
3 continuing to partner with the ikewai process with the
4 National Science Foundation and the UH to further
5 explore that potential resource, as well. So, we're
6 looking forward to that.

7 MR. HANNAHS: Keith, thanks for putting the
8 engineering into language that non-engineers can
9 understand.

10 MR. OKAMOTO: Sure.

11 MR. HANNAHS: In the investment world, when
12 you have uncertainties like that, when you have high
13 risk, you tend to risk adjust your expectations. And
14 here's an example. Four out of seven are out. So,
15 then, do you risk adjust your projections of the
16 production from these wells so that maybe they're not
17 going to produce at, kind of, a normal level that --
18 but, you know, the risk adjusts a little lower?

19 MR. OKAMOTO: Well, yeah --

20 MR. HANNAHS: Is that in your projections?

21 MR. OKAMOTO: So, how it works is sometimes
22 these wells will show signs of failure. The production
23 amounts will drop. So, it's not typically an instant
24 failure. So, that's how we can compensate and, I
25 guess, get some prewarning.

1 As far as adjusting what we think we can get out
2 of the wells, if that's what you're asking, some of
3 that is -- what we're trying to do is build a
4 redundancy so we have wells that can, you know, be off
5 service at some times, but when called to duty if one
6 other well goes down, we can bring that one up to full
7 service.

8 It does affect -- so, the other challenge that
9 we're facing is those wells, because of the horsepower
10 and the depth, use a lot of energy, and as we all know,
11 we're trying to be a lot better as far as energy
12 management. So, there's new technology. There's
13 variable frequency drives that -- it's almost like a
14 dimmer switch. So, instead of having one well totally
15 on or off, maybe we can throttle back wells, maintain
16 demand without putting such a burden on the system at
17 certain spots but maybe spread it out. So, things like
18 that. There are operational issues that we're working
19 towards.

20 MR. PAVAO: Not a question. Just a comment.
21 With four out of seven wells down and yet you're able
22 to provide the entire region with only a 25 percent
23 reduction, my compliments go to the department. You
24 guys must be working really hard. Operations must be
25 really out there 24/7. I think it's a real testimony

1 on your department serving the entire region with only
2 three out of seven wells. That's fantastic. I'm sure
3 everyone thanks you.

4 MR. OKAMOTO: Thank you.

5 MR. BUCK: Keith, you know this one's coming.
6 But, first, I commend you. I want to commend you. I
7 think it's a very -- much more comprehensive, I think,
8 as a result of this three-year process we've been
9 through. This (indiscernible) may not look like it
10 does today, so I appreciate your reaction to that.

11 I just need to follow up with Hannahs,
12 Commissioner Hannahs, about the watershed protection.

13 MR. OKAMOTO: Okay.

14 MR. BUCK: Actually, you could be living on
15 the high-level water now, and I think the consumers in
16 Hawaii are ready to hear that a small portion of their
17 water bill goes to protect the natural source tank.
18 And so, I hope when we see this plan again in the
19 future, that you have some time to do some of the work
20 that you need to do. But, I encourage you.

21 And just one quick question. We have some
22 testimony from DHHL that they would like to be
23 consulted on any well construction and pump
24 installation within the Keauhou aquifer as an
25 additional reference for protecting.

1 Would you have any problem with that?

2 MR. OKAMOTO: No, no problem.

3 MR. BUCK: Thank you.

4 MR. OKAMOTO: And so, you do have our
5 commitment, Mr. Buck, and, you know, we share another
6 seat on another body that is also concerned with
7 continuing our freshwater availability within our
8 state. So, I know I'll continue to see you. And so,
9 you have our commitment, and we do have some board
10 members here and things like that. So, we'll agendize
11 for either next month or the following month this
12 proposal for a possible watershed protection --

13 MR. BUCK: Small bit.

14 MR. OKAMOTO: Small bit. So, we'll encourage
15 all of those willing to help back us up in that regards
16 to come out and testify on that behalf.

17 MR. BEAMER: Okay. Keith, I wanted to ask.
18 I think this is probably the last one, but I wasn't
19 sure if another commissioner would ask it, so I didn't
20 want to bombard you in the beginning. Kala mai.

21 But, you know, it's come up over the course of
22 these several years. Commissioners ask questions about
23 well spacing and, in particular, what control, you
24 know, you folks have in dictating the space in the
25 wells within a known aquifer, a known ahupuaa. And in

1 the past, you said it's kind of beyond your
2 jurisdiction. So, I just want to ask that question.

3 MR. OKAMOTO: Yeah. So, I think, we do have
4 those limitations on our jurisdiction and what we can
5 or cannot require of certain entities. But, you know,
6 we have thought about it long and hard. And we all
7 understand that -- you know, just common sense. We
8 have this whole big aquifer. You want your sources
9 spatially distributed as best you can. So, we're --
10 you know, on our side, we're committed. If we're going
11 to drill something, we're going to put it south. We're
12 going to put in whatever transmission infrastructure
13 required to bring that water to where it needs to end
14 up.

15 What we can do when we work with private entities
16 is, again, encourage that -- that viewpoint, let's say.
17 But, the other thing that really -- the primary
18 leverage we have with these agreements that we go into
19 with private entities is basically how much water they
20 get out of this infrastructure investment. So, when
21 we're thinking about it, we're saying, okay. Well,
22 let's monitor this on a higher level than we have in
23 the past. So, let's monitor over a longer term, the
24 impact.

25 And for high level, all we have is static water

1 level at this point. It's not like the chlorides are
2 going to reveal whether or not there may be some
3 potential adverse impacts to the aquifer. So, what
4 we'll do is we'll look at long-term monitoring plan for
5 water levels in the high-level aquifer, see if there's
6 any interaction with adjacent wells.

7 And what we'll do is we'll -- you know, we haven't
8 entered into any agreement thus far with this framework
9 in mind, but what we're planning to do is incorporate
10 things like that, you know, longer term monitoring,
11 potential to lose water units if there's a possibility
12 that the aquifer could be impacted, because again,
13 we're all in here for the long run. We don't want to
14 end up in a situation where, you know, an entity has so
15 many units based on this well, and you really can't
16 pump that much out of the well, really.

17 So, the -- you know, and the reality is
18 developments don't infill overnight. Typically, it
19 takes time. So, our water development agreements
20 typically have a 20-year term on them. So, I think
21 there's language that we can incorporate.

22 Even if we may not have the ultimate ability to
23 say where somebody wants to plant a well, we can say,
24 well, there might be impacts, and if those impacts come
25 true, your water units will be impacted. And then, it

1 becomes a business decision. Do I want to take that
2 risk and invest in a well here? I might lose some
3 water units. Or do I move it elsewhere and pay a
4 little bit more up front?

5 So, that's what we're hoping to see out of that
6 process.

7 MR. PAVAO: Just a word of caution. We have
8 extensive history on basal wells, and you pretty much
9 can guess interference of one well on the other well
10 based on spacing. But, now we're dealing with
11 high-level water which is virtually unknown. As you
12 know, every well has a different head, which means
13 there's many, many compartments, and nobody really
14 knows how each compartment relates to the other
15 compartment. So, while the spacing theory works well
16 on a basal lens, nobody's really certain how it works
17 on the high-level water. And I think this is something
18 that we need to develop, and, you know, sometimes the
19 best things come out of mistakes. So, you may make a
20 mistake. You may have it 3,000, 4,000 feet apart, and
21 you still might have some interference. But, that's
22 not based on you being careless. I think it's based on
23 the fact that nobody really knows what's going on up
24 there. Your guess is as good as anybody else's as far
25 as how the compartments are arranged. So, just a word

1 of caution.

2 MR. OKAMOTO: And, yeah, that's -- so, that's
3 a good point, and that's why we're thinking that
4 monitoring will provide us information. You know, if
5 we commit to continual long-term monitoring, we'll all
6 get better information and be able to see if, you know,
7 there's -- there's information come in that might cause
8 us some concern. And these are things that we're
9 working with the commission already. We have a
10 consultant on board doing long-term monitoring of water
11 levels, and we're giving that information to the
12 commission.

13 MR. KAWAOKA: My question evolves from
14 operational -- or long-term operational sustainability.
15 You mention that these wells are -- they're pretty old?

16 MR. OKAMOTO: No. So, a lot of the basal --
17 so, the Kahaluu shaft was constructed a long time ago,
18 but the pumps and motors have been replaced
19 periodically. As they wear down, break down, we've
20 been replacing pumps and motors as needed.

21 MR. KAWAOKA: So, that was my question, not
22 to get into engineering, but in terms of preventive
23 maintenance, like asset management part, is that being
24 incorporated into the planning?

25 MR. OKAMOTO: Yeah. So, we're -- we have

1 that incorporated into our -- definitely the deep
2 wells. Preventive maintenance really cannot be
3 accomplished on these, particularly because they're
4 1,600 feet below ground, the pump and motor. You know,
5 they're in the water cable below ground. All we have
6 for prevention is the safety features that we have up
7 top. You know, say, there's unbalanced load from the
8 power utility, there's equipment up top so that that
9 unbalanced load doesn't burn the motor downhole. So,
10 in other words, it will shut off the motor before
11 something like that damages it.

12 MR. KAWAOKA: So, in your -- asset management
13 part, I guess, you don't have control over all these
14 wells, correct?

15 MR. OKAMOTO: Yeah. They -- I mean, what we
16 do have is we have history on about how long we expect
17 one of them to last. And sometimes that works out,
18 sometimes not. Numerous issues can cause a well
19 failure. Could be a lightning strike, as freakish as
20 that, or -- you know, these are mechanical, again, so,
21 you know, they're spinning at high RPM under heavy
22 load. Bearings wear out over time, things like that.
23 So, we just -- you know, we budget for well replacement
24 every year. We just -- it's a best guess on what will
25 fail when, basically.

1 MR. KAWAOKA: Thank you. Thank you, Chair.

2 CHAIRPERSON CASE: Any other questions?

3 Let's move to public testimony. We're going to
4 take public testimony on this first item, which is the
5 plan update.

6 Is anyone -- mostly people signed up to testify on
7 the next agenda item. I want to check if anybody wants
8 to testify on this item.

9 Okay. Oh, okay.

10 MR. MANUEL: Aloha, Chair and Commission.
11 Aloha, community of Kona and the County. I'm just -- I
12 was asked to present testimony on behalf of our
13 chairman, Jobie Masagatani, related to Item B.1. So,
14 I'm just going to --

15 CHAIRPERSON CASE: Your name.

16 MR. MANUEL: Kaleo Manuel, acting program
17 manager, for the Department of Hawaiian Home Lands.
18 So, I'm just going to read through the testimony.

19 Aloha, Chairman Case and distinguished members of
20 the Commission on Water Resource Management. Thank you
21 for this opportunity to provide testimony on Item B.1,
22 acceptance of County of Hawaii Water Use and
23 Development Plan Update Phase 2, Keauhou Aquifer System
24 Area, Kona, Hawaii.

25 We appreciate the work of CWRM, staff, County of

1 Hawaii Department of Water Supply, and consultants to
2 update the County of Hawaii Water Use and Development
3 Plan as a means to integrate land and water planning to
4 meet existing and future water needs and its attempt to
5 recognize, respect, and protect public trust resources
6 and uses.

7 The Hawaiian Homes Commission and the Department
8 of Hawaiian Home Lands adopted a Water Policy Plan in
9 2014 that guides the Hawaiian Homes Commission and DHHL
10 in making proactive decisions and advocating for its
11 kuleana related to water. In this context, DHHL offers
12 the following comments on this item for the
13 commission's consideration:

14 DHHL currently holds in trust a little over 1,500
15 acres of lands in north Kona that include the areas of
16 Kalaoa, Kealakehe, Honokohau, and Keahuolu. We have
17 approximately 500 residential homestead lessees in the
18 Village of Lai Opuu. Because of its landholdings and
19 Native Hawaiian beneficiaries that reside within the
20 Keauhou Aquifer System Area, DHHL takes a strong
21 interest in CWRM's actions and decision as it relates
22 to this aquifer, specifically in the interest of
23 protecting Native Hawaiian beneficiary rights.

24 Phase 2 final report of the Keauhou Water Use and
25 Development Plan is a good start towards protecting the

1 traditional and customary practices of Native Hawaiians
2 and other public trust uses of water. However, it's
3 still unclear as to the actual mechanics or the process
4 the County or CWRM will pursue to protect or address
5 these trust uses of water beyond -- beyond a
6 consultation process or program tied to the Well
7 Construction and Pump Installation Permit process.

8 Therefore, DHHL requests and recommends the following:

9 1. Provide greater clarity on the consultation
10 process and details that CWRM, County, and Aha Moku
11 will undergo. The selected -- the selected consultants
12 do not appear to fully vet all of the issues associated
13 with traditional and customary practices in the Water
14 Use and Development Plan as drafted. Without
15 understanding the process, we, DHHL, don't have the
16 confidence that the complexity of issues related to
17 these rights will be addressed.

18 2. The burden to assess impacts on traditional
19 and customary practices should be placed on the
20 applicant, not practitioners. The applicant should
21 demonstrate that their action will not impact DHHL's
22 water needs or rights, traditional and customary
23 practices, and other public trust purposes.

24 3. At minimum, consult with our Native Hawaiian
25 homestead community who may rely and depend on the

1 resources found in the region to ensure their
2 traditional and customary rights are protected.

3 4. The Commission for Water Resource Management
4 and the County Department of Water Supply should
5 implement a pilot project for the Keauhou Aquifer
6 System Area to engage with DHHL and OHA as part of its
7 well construction and pump installation permit approval
8 process. DHHL and OHA can help to identify the
9 potential well impacts on DHHL reservations and
10 traditional and customary practices, assist in
11 consultation with affected beneficiaries, and help to
12 determine appropriate mitigation measures related to
13 specific new well source development.

14 5. We recommended that the Commission for Water
15 Resource Management revise the proposed well
16 construction and pump installation permit process could
17 -- and could include public notice and targeted
18 outreach paid for by the applicant, as well as
19 potential CWRM approval. Currently, these items are
20 handled administratively by CWRM staff with little
21 experience or knowledge relevant to the fulfillment of
22 CWRM's responsibilities to traditional and customary
23 practices of Native Hawaiians. Accordingly, there's
24 little to no opportunity for experts, the public, or
25 even agencies to weigh in on the potential impacts of

1 wells and water withdrawals. A public process and
2 sunshine law-based decision by CWRM members would be a
3 meaningful way to implement changes to well permitting
4 intended to address the impacts on traditional and
5 customary practices of Native Hawaiians.

6 Mahalo again for the opportunity to submit
7 testimony for your consideration on B.1. We look
8 forward to working collaboratively with CWRM and the
9 County of Hawaii in protecting the public trust and the
10 traditional and customary practices of Native
11 Hawaiians. Thank you.

12 CHAIRPERSON CASE: Thank you.

13 Anyone else on B.1?

14 MS. DAMATE: Thank you, Chair, members of the
15 commission. Leimana DaMate with the Aha Moku Advisory
16 Committee.

17 CHAIRPERSON CASE: Could you speak up closer
18 to the mic, please.

19 MS. DAMATE: Thank you for the opportunity to
20 testify. Leimana DaMate with the Aha Moku Advisory
21 Committee. You have received the Aha Moku testimony,
22 and I stand on that testimony.

23 But, I would just like to mention that the Aha
24 Moku actually worked with site specific ahupuaa in
25 bringing forth lineal descendent generational knowledge

1 of the resources to the DLNR, to the different DLNR
2 divisions, including the Water Commission. In this
3 respect, the Aha Moku has been working with the
4 Department of Water Supply, Hawaii County Water --
5 Department of Water Supply, through the Water
6 Commission for the past, I would say, almost a year.

7 Our Aha Moku representative, Kawehi Nguyen, has
8 been working on getting the ahupuaa communities, and
9 these are -- and this can answer some of the questions
10 that I've just heard from the Hawaiian Homes and also
11 the questions that were mentioned by Commissioner
12 Hannahs. In the sustainability of the watershed, the
13 ahupuaa lineal descendants of a place are working with
14 the Department of Water Supply and the Water Commission
15 in the proposal of new wells to let them know if there
16 is a wahi pana, if there are endemic indigenous plants
17 and flora or fauna that will be impacted by new wells.

18 If there's any kind of damage that is perceived to
19 come to the watershed, one of the main things that
20 they're looking at -- and this is coming from our Moku
21 representative -- is that when these people are
22 consulted, the first thing they do being -- you know,
23 Native Hawaiians are the best conservationists in
24 Hawaii. The first thing we do is to see how the water
25 can be sustainable. So, they're -- little by little,

1 we're starting to work with the ahupuaa families,
2 because it boils down to the families of the place, our
3 lineal descendants of that place who know the resource
4 the best.

5 And we're happy to say that in the past year, the
6 Aha Moku people of West Hawaii have been able to work
7 with the Department of Water Supply and with the Water
8 Commission in promoting this type of manao, which was
9 never, ever given before. So, in that respect, they
10 have agreed that we support this plan for the
11 Department of Water Supply and continue to look forward
12 to working with the Water Commission on bringing forth
13 traditional generational knowledge of the different
14 ahupuaa and sites that are proposed for well
15 development. Thank you.

16 CHAIRPERSON CASE: Thank you.

17 Other testimony on B.1?

18 Mayor.

19 MAYOR KIM: Good morning. Thank you very
20 much. I want to, kind of, move away from the prepared
21 testimony, except for the first paragraph. To members
22 of the commission, thank you very much for your work.
23 We share petitioner's concern to develop this area with
24 respect to nature and culture, but we do not support
25 designation as the appropriate way to achieve that

1 mission.

2 We believe we have gained tremendous knowledge
3 from the scientific studies to the update of the
4 Keauhou Water Use and Development Plan as a result of
5 the petition. We support the measures that the staff
6 report recommends to monitor the impacts and to improve
7 our knowledge, and we intend to do our part to
8 implement the recommendations.

9 I'd like to take this opportunity to thank
10 Superintendent Tammy Duchesne that even before I became
11 mayor, she took the initiative for her and her staff to
12 drive all the way to Hilo and to spend lengthy time
13 with me in private to explain to me about what we're
14 trying to do and why and also the Department of Water
15 Supply staff to do the same in regards to their
16 position and why.

17 I know I'm asking a lot of this commission members
18 who do not know me, especially the members of the
19 public in the back. But, I do ask that you trust of
20 what I say as when I committed to the national park
21 superintendent in conversation thereafter of our total
22 commitment to work with them to ensure that we do not
23 endanger the aquifer system with human use, that we
24 will do everything possible and even beyond what is
25 required by regulation with the Department of Water

1 Supply to ensure that we achieve their goals, which is
2 a goal that we all must have, and that is to ensure the
3 monitoring of the very precious system, the water
4 supply, that we do not endanger a sustainable level.
5 And I know these are figures that you already know
6 better than I do, but I think you know that as far as a
7 sustainable level, what is drawn now totally by the
8 private and the Department of Water Supply sector is
9 less than 40 percent of the sustainable level
10 established, which is on the very low side. Of that
11 figure, I think you know that the Department of Water
12 Supply is responsible for approximately 80 percent of
13 that draw. So, we do know the extreme of
14 responsibility of our usage of government for the
15 people. And I have committed to, again, national park
16 that we will do everything we can to ensure that we do
17 not endanger the sustainable level because that is our
18 responsibility to everyone.

19 I do ask you to realize that -- I don't know of
20 anybody I've talked to, especially at the national
21 park, but also with our Water Department that
22 understand the seriousness of what we are committing to
23 you. We will do our job. We do know the importance of
24 never endangering and approaching a sustainable level
25 of the most precious of our resources, and we will do

1 that. We commit that to the community. We commit that
2 to the national park people, who are doing a great job
3 on that of that responsibility, and we commit that to
4 you. Thank you.

5 CHAIRPERSON CASE: Thank you.

6 Anyone else wishing to testify?

7 And again, we're on the plan update, not on the
8 petition. So, if you have something for the plan
9 update, please come testify.

10 MS. ALOUA: Aloha mai kakou.

11 Can you folks hear me?

12 Okay. I apologize, but I got to be honest with
13 you. I have to go to court, and I cannot stay and wait
14 for us to go through the agenda items. So, I am just
15 humbly asking that you hear me, and hopefully, some of
16 what I say can enter your hearts in the decision
17 concerning our water use. And again, I apologize to
18 everyone sitting behind me. I know there's a process,
19 and I don't mean to disrespect that. But, I'm being
20 called to the stand after lunch at Hilo, and I got to
21 get there. And so, this is why I'm speaking now, but
22 it does involve Item B.1.

23 So, my name is Ruth Aloua. I'm from Kailua-Kona.
24 My grandmother's family is the Hoomanawanui. We come
25 from the Kona district, from south to north. My

1 grandfather's lineage is Hoapili. We come from Maui.
2 We have ancestral connections to Kaloko as kia'i, kia'i
3 of that place. I'm a kia'i loko of Kaloko loko i'a,
4 Kaloko Fishpond, this place that is currently under the
5 stewardship of the National Park Service. And I guess,
6 if you're looking at the terms that we use today, I am
7 a traditional and customary practitioner of our
8 culture.

9 Professionally, I'm an organic farmer. I just
10 grow food, and I take care of animals. I try and feed
11 our people. And when I'm not on the aina, I'm in the
12 loko i'a. I'm trying to help that fishpond,
13 rehabilitate it, so our families can eat from it once
14 again. And when I'm not in the loko i'a, I'm at these
15 meetings in the spare time that I have and like you
16 folks, who are just sitting here, trying to help our
17 people, and protect our resources.

18 So, what I need to do is I need to reframe this,
19 because we're talking about the park service, the park
20 service, the park service. Out of all due respect, you
21 guys are the stewards of this aina, of this very
22 special place. But, this place for us, the kanaka of
23 Hawaii, has existed for hundreds of years, and the loko
24 i'a here -- the fresh water is so, so crucial to the
25 existence of the fishpond. And there's an urgency.

1 And the scientific evidence being presented by the
2 National Park Service is being rebutted on various
3 points, but the fact stands that our waters are getting
4 saltier, and the fishpond needs us to stand.

5 And that's why I'm here today with such an urgency
6 is because the spirit beings of this loko i'a have
7 asked me to come. And they said, Remind them, talk to
8 their hearts, remind them of our love for Hawaii,
9 because they need us to stand for them. And if we do
10 not stand for them, they will leave. So, we talk about
11 climate change. We're talking about where wells are
12 going. On the human realm, this is very real, but on
13 the spiritual realm, there's an urgency, because no
14 matter where we put these wells and no matter when --
15 how fast climate change is going to affect us or not,
16 there's an urgency for us to protect our water because
17 the spirit beings who are on the higher level, the
18 higher order of providing us this water, they're going
19 to leave us. And with that, our vine will diminish
20 quicker than we could ever expect. So, I'm for
21 designation.

22 And when I read through Items B.1, I got to admit,
23 I went to their meeting that they presented, the
24 County, and I had questions. And my questions -- as a
25 community member, as a traditional Native Hawaiian

1 practitioner, I was attacked. I was told water does
2 not flow mauka to makai. I asked about environmental
3 studies that would be conducted to assess the impacts
4 of our withdrawals from our southern aina or from our
5 mauka lands on endangered species, on threatened
6 species, on species that exist. I was told to go and
7 conduct my own studies. All of this is recorded.
8 Like, I can give you all of this.

9 So, I respect their plan, and I know that
10 everybody's trying to come forward with a solution.
11 And I -- and I got to say, designation is not going to
12 be harmful. It's not a federal takeover. It's not
13 going to stop development. There's other aquifers on
14 other islands that are developed that are protected,
15 and it hasn't stopped. Oahu hasn't slowed down in any
16 bit in development that's happening.

17 And I got to address -- another thing I wanted to
18 address is the Aha Moku system. As a -- if anybody
19 heard about Mauna Kea, what's happening up on the
20 mountain, if you heard of Kahu Ku Mauna, they're kind
21 of the middleman in all of this, this advisory
22 capacity. And what we're learning is that these
23 advisory boards don't actually have any real
24 decisionmaking power. They're just advisory to the
25 people who make the decisions. And sometimes, our

1 messages as practitioners are getting crossed in the
2 mixing, or it's getting ignored. Or these advisory
3 boards, even when they try and uphold our voice and
4 present it to other individuals in decisionmaking
5 seats, were being ignored. So, I highly caution
6 against allowing an advisory board to be the middleman
7 in this process. That's not okay with me. That's not
8 enough, because I already know that's going to cause
9 problems.

10 We keep talking about community. I don't know who
11 in this room -- I mean, out of respect for who is in
12 this room and all the ancestors that is here with us, I
13 don't know who in this room is not working for a
14 Realtor, does not work for a Realtor company, does not
15 work for a private firm, does not want to put a well on
16 their land, does not work at Kohanaiki Shores, does not
17 work for the National Park Service. We keep talking
18 about community, but I actually haven't really seen any
19 real community involvement. We're talking about going
20 into Kealakekua.

21 Has anybody talked to the ohana from these aina to
22 let them know that we want to tap into their water?

23 And I'm not trying to be mean, but I'm just trying
24 to say, like, have we talked to them? And I'm trying
25 my best on my end, on the community end, to -- to bring

1 these families forward. And it's not to sway them, but
2 it's to just say, hey, this is happening. Do you folks
3 know this is happening? How you folks feel about this?

4 And again, I'm sorry. I'm going to submit written
5 testimony to you folks, but these are just -- these are
6 just some of the things that I just -- I just needed to
7 say is that our wai needs us. And it's more than just
8 this meeting. And I'm for designation. And if you
9 don't designate, delay.

10 And come. Please come. I came to the last
11 meeting, and I asked folks to come. And I didn't see
12 any of the commissioners come. And I know you're busy,
13 but please, don't -- don't go with the host being the
14 park service. Come with me. Please come with me.
15 Come with me. Come with our hui. Let us show you what
16 we see. Let us show you what is at risk if we're going
17 to protect our water.

18 Thank you again. And I apologize for jumping the
19 gun, but I got to go to court. Thank you.

20 CHAIRPERSON CASE: Thank you.

21 If there's further testimony, I -- we're only
22 going to hear testimony on Item B.1. And if not, we're
23 going to -- and we have a lot of people in the room, so
24 I am going to say now that I'm going to ask that we
25 limit testimony to three minutes a piece. Otherwise,

1 it will take us six hours to get through the testimony.
2 So, we're going to try to ask everybody to limit their
3 testimony. And right now, only on the plan update, and
4 then we will make a decision on the plan update.

5 And then we will go to the -- I'll let the staff
6 submit -- staff present their submittal on B.2, on the
7 petition, and then we'll let the National Park Service
8 present their case for the petition, and then we will
9 go to public testimony on the petition.

10 Okay. B.1.

11 MR. KAHUI: Good morning, Commissioners. My
12 name is Bo Kahui, and I'm the executive director for
13 Lai Opua 2020, a beneficiary -- Native Hawaiian
14 Beneficiary Organization, 501(c)(3) corporation. I
15 also serve as director for the Villages of Lai Opua
16 here, in the homestead community, in the Kealakehe
17 ahupuaa. We are the community, and I've been involved
18 in this process from the beginning. I've attended
19 every commission hearing, and I've participated in this
20 process.

21 With respect to Item B.1, we support the water --
22 the County's water use plan. It's not perfect.
23 Nothing's going to be perfect. If it was perfect, we
24 wouldn't be here today. But, it allows us to address a
25 lot of the issues we're confronted with today -- how we

1 going manage that water, what we going to do about our
2 future sustainable yield, how we going to do some of
3 the -- I think hypothetical scenarios that were
4 proposed by Commissioner Hannahs about what do we do
5 about rapid ohia death. I agree that that should be in
6 the plan. But, rapid ohia death is a recent phenomena
7 that we don't quite understand and how that is going to
8 impact our forest. I totally agree with that idea.
9 And we would push to support a studies to see the
10 effects of the rapid ohia death to our forest and to
11 our sustainable yield and to our project.

12 When we look at the department's testimony today,
13 we look for partnerships. Over the last three years,
14 we tried to find solutions for our water. We were the
15 only community in West Hawaii that went to try and fix
16 the sewer treatment plant. We tried to find capital to
17 bring that and use that water, change it from R2 to R1
18 so we can conserve our water. Nobody else took that
19 task. We did.

20 The outcome of that was we never get the 25
21 million we wanted. We got 2.5. We couldn't take that
22 risk. We're just a small nonprofit corporation. But,
23 in the end, we were qualified for USDA assistance
24 through rural utility service to build a well. And
25 since that time, we've worked with the County and have

1 located a site to provide water resources for our
2 community. Our own community. That's more than
3 anybody can expect from a nonprofit beneficiary
4 organization. Fifteen years we waited for our
5 four-acre park, and today, we still waiting for that
6 four-acre park.

7 Now, the Department of Hawaiian Homes and
8 beneficiaries here, in this community --

9 CHAIRPERSON CASE: Could I ask --

10 MR. KAHUI: -- we worked together on that.
11 So -- so, in essence, then, we support -- the Villages
12 of Lai Opuu 2020 as well as the Lai Opuu 2020
13 corporation and association supports the water use
14 plan. Thank you.

15 CHAIRPERSON CASE: Thank you very much.

16 Other testimony on B.1?

17 Okay. If not --

18 UNIDENTIFIED SPEAKER: Are you guys born and
19 raised here? I ask you guys one question. Is Hawaii
20 one state or is it Hawaiian Kingdom? Huh? Cat got
21 your tongue?

22 Well, I'm here to for speak for my country. The
23 land that you guys talking about. Keawe. Okay?
24 Kimokeo Timoteo Keawe. Honokohau Harbor. Okay? Go
25 look over there. You guys homework. You going see the

1 guy's name over there, July Simeona. I'm an heir to
2 all of this. Stop what you guys doing. This is not --
3 you guys are conspiracy against our country. I want
4 the FBI and everybody in the world to look at all --

5 MR. PAVAO: Madame Chairman, this is out of
6 order.

7 UNIDENTIFIED SPEAKER: -- including Japan and
8 everybody else. This is all to do with our water --

9 CHAIRPERSON CASE: We're going to let him
10 finish three minutes.

11 UNIDENTIFIED SPEAKER: -- that is not yours,
12 that is not -- that is not the national park. This is
13 not the State of Hawaii or the County. This is
14 Hawaiian Kingdom land. It's our country. Japan, all
15 you guys have no right over here for go claim our water
16 or our land or our resources. That belongs to us, the
17 kanaka, you looking at. We -- I'm not the crime here.
18 It's you folks doing this against us and our country
19 and our people.

20 I'm 73 years old. I had enough of your guys'
21 nonsense. My grandfather, Ikirole, the one that went
22 build all the road. The Battle of Kuamoo. Timoteo.
23 That's my grandfather's tutu man, one of 32 siblings.

24 We are the heirs of this thing, of all the
25 resources over here. It's not the County or the State

1 or the federal government or the national park. You
2 guys have no right over here to claim anything, at all.
3 That is not your kuleana. (Speaking in Hawaiian). You
4 guys come over here and abuse our aloha. How dare you
5 guys come over here and make decisions over our land
6 and our water --

7 CHAIRPERSON CASE: Can you wrap up your
8 testimony, please, sir.

9 UNIDENTIFIED SPEAKER: -- and all of this.
10 And you going tell me I only get two minutes for
11 speak? Huh?

12 CHAIRPERSON CASE: Yes. You have --

13 UNIDENTIFIED SPEAKER: Get real, lady.
14 Who you?
15 Suzanne case.

16 Are you related to Ed Case them?

17 CHAIRPERSON CASE: You have ten seconds left,
18 sir --

19 UNIDENTIFIED SPEAKER: Huh?

20 CHAIRPERSON CASE: -- can you please wrap up
21 your testimony.

22 UNIDENTIFIED SPEAKER: I get plenty more to
23 say. I opposed to this and I want one investigation by
24 the world out there. Japan, China, Russia, all you
25 guys get -- you guys got treaties with us.

1 CHAIRPERSON CASE: Thank you.

2 UNIDENTIFIED SPEAKER: Ua mau ke ea o ka aina
3 i ka pono. That means to malama, to take care.
4 Evidently, you guys are not --

5 CHAIRPERSON CASE: Does anyone else want to
6 testify on --

7 UNIDENTIFIED SPEAKER: -- you guys over here
8 to rip us guys off and make all of these things into
9 one parking, God damn --

10 MR. BUCK: I'd like to make a motion. I'd
11 like to recommend that commission accept Phase 2 --

12 UNIDENTIFIED SPEAKER: -- it's to do with
13 money. It's to do with our culture. You guys using
14 our country against us and fighting with our families
15 over here. That is pilau.

16 There's our mayor. He knows about it because it's
17 to do with --

18 CHAIRPERSON CASE: Sir, can I ask you to sit
19 down, please --

20 UNIDENTIFIED SPEAKER: -- I'm the one that
21 they removed.

22 Why?

23 Now they're making 'em into one park. They like
24 the water. (Indiscernible) --

25 CHAIRPERSON CASE: Okay. We'll take a

1 recess. We're in recess.

2 (A recess was taken from 10:32 a.m.
3 to 10:34 a.m.)

4 CHAIRPERSON CASE: Thank you.

5 MR. BUCK: Chairperson, I'd like to make a
6 motion to accept -- the commission accept Phase 2 Water
7 Use and Development Plan Update for the Keauhou Aquifer
8 System Area.

9 MR. PAVAO: Second the motion.

10 CHAIRPERSON CASE: Any further discussion?

11 MR. HANNAHS: I just want to reconcile a
12 couple of the testimonies that we heard regarding the
13 burden of proof regarding the impacts upon traditional
14 customary practices, whether that falls unevenly upon
15 the practitioner or upon the applicant.

16 Is there some clarification as to -- as to whether
17 that's an equitable process or system provided by the
18 policy and plan creates an adequate protection or
19 levying the burden upon both the applicant as well as
20 the opportunities for the Aha Moku Council and others
21 (indiscernible) engagement for the practitioners to
22 (indiscernible)?

23 MR. OKAMOTO: Was that question for me?

24 MR. HANNAHS: I guess it's under the County
25 plan.

1 What is -- what is your expectation of the
2 applicant to demonstrate impacts, and is that working
3 adequately?

4 MR. OKAMOTO: So, I think I may need
5 assistance from CWRM staff on this, Roy. In our Water
6 Use and Development Plan, our proposal is to
7 incorporate that Aha Moku process. You know, we're
8 trying to step up to the plate and be the guinea pig
9 here. We think it's a valid resource that we can reach
10 out to.

11 I don't know if we have all the details worked out
12 yet, but basically, it's going to be -- from our
13 understanding, it's that for an applicant, even if it's
14 us, for a new well -- so this process will apply to us,
15 as well. So, for a new well in Kona, we would present
16 this proposed well development to the Aha Moku group to
17 then be what I understand is the liaison to reach out
18 to the particular -- the lineal descendants, wherever
19 that well is proposed to be constructed. And so, we
20 would have the burden as, I guess, in this case, the
21 applicant to vet whatever concerns that the lineal
22 descendants may bring forth because of this project,
23 and then we, as the applicant, would need to satisfy
24 their concerns before the commission proceeds with the
25 well permit application, is my understanding.

1 MR. HANNAHS: I would just encourage, based
2 on what we've heard today, that that be viewed upon as
3 a minimal policy, not an optimal policy, in the sense
4 that there are other people out there, as well, with
5 all due respect to the Aha Moku Council, as you heard
6 from Mr. Kahui and so forth, really valuable resources,
7 and Ms. Aloua. So (indiscernible) brought into the
8 process, so kind of having a system that reaches out
9 broadly to catch a broad net --

10 MR. OKAMOTO: Our system --

11 MR. HANNAHS: -- input to ensure the
12 protection from all who have a view on traditional
13 customary practices.

14 MR. OKAMOTO: So noted. So, for our wells,
15 Chapter 343 applies. So, that's the open system that
16 anybody can comment on our proposed projects. So, now,
17 it may be up to commission staff on other wells that
18 may not fall under 343, how that broader net could
19 possibly be cast. But, we're open to getting input to
20 our process and our projects, for sure.

21 MR. BEAMER: Thank you. Just a couple
22 comments. You know, I do want to mention that the last
23 testimony and historical injustice that we deal with in
24 Hawaii is really, really complex. And I have
25 tremendous amount of aloha for, you know, the diverse

1 sets of arguments seeking justice. And they're going
2 to come up in hearings like this, and at times, it may
3 not seem relevant, but it's -- it's the historical
4 legacy that we all inherit here. And we're uncovering
5 how to resolve it. So, I feel like that needs to be
6 said.

7 In regards to this management plan, you know,
8 building off of Commissioner Hannahs' comments, would
9 it be -- you know, maybe we could add DHHL in this
10 instance to the Aha Moku in terms of consultation,
11 given the landholdings, you know, the beneficiaries
12 that reside in Kona. That might be -- and I'm speaking
13 -- thinking out loud. I don't know if this would
14 resolve the issue for DHHL, but I wonder if that might
15 be something that could work.

16 MR. PAVAO: (Indiscernible).

17 CHAIRPERSON CASE: Okay. All in favor. Aye.

18 MR. BUCK: Aye.

19 MR. PAVAO: Aye.

20 MR. BEAMER: Aye.

21 MR. HANNAHS: Aye.

22 MR. BALFOUR: Aye.

23 CHAIRPERSON CASE: Opposed.

24 Thank you. Okay. The plan is adopted. The plan
25 update is adopted.

1 Anybody need a break?

2 All right. Thank you.

3 All right. We are going to go to Item B.2, and
4 our CWRM staff, commission staff, will present the
5 staff submittal on this. And then, we are going to
6 give the National Park Service, petitioner, a
7 significant amount of time to speak, as well, and then
8 we will go to public testimony.

9 MR. HARDY: Can you hear me?

10 Okay. Thank you, Chair Case. And good morning,
11 commissioners. Good morning, members of the public.
12 Aloha kakou. My name, for the record, is Roy Hardy.
13 I'm the ground water hydrologic program manager, and
14 I'll be making a presentation today to you.

15 Just a few comments before we get into it is that
16 the submittal and this presentation may take a little
17 while, but it's trying to distill the issues that are
18 important, from the staff's perspective. And I kind of
19 like to analogize it as we're looking at an iceberg
20 here. We can see a lot on the surface, but there's a
21 lot below. And it's the one just in the thin layer,
22 you know, that a ship may hit that we really need to
23 pay attention to, and that's what we hope and attempt
24 to do here today so that we can take the proper course
25 safe -- safe navigation through this -- all the issues.

1 So, Item B.2, again, is the -- I have a
2 presentation here -- is the petition for designation of
3 -- sorry. Okay -- from the National Park Service --
4 Kaloko-Honokohau National Historical Park.

5 Thank you for the lights. It's a little bit
6 easier to see.

7 And it's the petition for groundwater management
8 area designation, Keauhou Aquifer System. We're all
9 familiar with the where here, and this is, of course,
10 the Big Island. And the red area is the aquifer system
11 that we're talking about.

12 And this issue, as you've heard from many of the
13 testifiers, has been going on a long time, since
14 September 2013. That's three and a half years, almost,
15 since this process began, just on this petition.
16 There's a little bit more background to it, as well.
17 I'll get into that further in the presentation.

18 And again, just to orient ourselves, what is the
19 map where we're talking about?

20 The green area is -- everyone's familiar with the
21 national park area and issues within the Keauhou system
22 bordered by Kiholo and Kealakekua. This is the way the
23 commission manages and spreads out -- recharge spreads
24 out. Pumpage come up, things like sustainable yield.

25 So, what's -- you know, what? What -- so what?

1 What is the management area?

2 The main difference is that there's groundwater
3 use permits. And this chart -- little bit difficult to
4 see with this -- highlights this. And this is actually
5 presented, I think, by the national park. And in
6 statewide areas and in designated areas, we have both
7 of those first two items -- well construction pump
8 installation permits. We have standards for those.
9 It's statewide. There's also water use reporting.
10 That's to measure what is being taken. If you can't
11 measure it, you can't manage it. And that's statewide,
12 regardless of designation.

13 When you get to the third bullet there on
14 designated areas, that's water use permits, and that's
15 where you start paying attention closer to the
16 end-of-the-pipe issues. So, everything is from the
17 beginning of the pipe, the resource itself, making sure
18 things are constructed properly statewide.

19 This (indicating) is the process itself. You're
20 familiar with it, but I did want to highlight a few
21 changes here. And I'm sorry. I apologize. It is a
22 long process, but we are still up in this -- this top
23 area here (indicating) today. Just for clarification,
24 this is where we are today, at this -- the big box.
25 The commission decides whether to continue the

1 designation process. That's what it's been termed in
2 the past. But, actually, more properly and the way the
3 law reads, it's whether the chair makes a
4 recommendation to continue for or against designation.
5 So, we're updating that to make it clear.

6 There's a recommendation today from the chair, and
7 it's going to be against. But, if there was a
8 recommendation for designation, we would continue down
9 into this lower portion, where if today you were to
10 decide, well, we want to -- we want to go towards
11 designation, there would be a public hearing and then a
12 chair recommendation and then a final decision and then
13 a findings of fact.

14 We had a draft earlier. I think caused some
15 confusion. We really were up in this -- this part with
16 the investigations. Part of that was from the
17 declaratory order that you folks had made for a number
18 of things -- more information, more investigations.
19 The Water Use and Development Plan update was one of
20 those. There's a number of others, as well, and we'll
21 go through those today.

22 So, again, we're up in that first portion. And
23 all the information that we compiled over the past
24 three and a half years is on our web site. This
25 (indicating) is it. And it starts from the petition

1 itself all the way through. The petition is included
2 in your submittal as Exhibit 1. This (indicating) is
3 from the petition, and it highlights the fact, as you
4 know, that the national park was concerned about the
5 wells that are being -- that are being drilled above,
6 in the high-level aquifer. Actually, to the south, as
7 you know, with the Kahaluu Shaft and the basal aquifer,
8 the petition says because of the rise in chlorides
9 there, that prompted the County to spread out the
10 pumpage, which is actually a good thing, to the north.
11 However, it was above and mauka of the park, so that
12 was their concern, how it will impact them and, of
13 course, not to mention all the -- sorry again -- all
14 the yellow area, which is all the development that's
15 around the park and, maybe, water quality issues from
16 runoff from those, as well. So, that encapsulates a
17 lot of -- you know, the bare bones, I think, of the
18 petition.

19 People said they've been here a long time, since
20 three and a half years since the petition came in. It
21 actually was much further back, almost ten years, when
22 the national park approached staff. They were talking
23 about designation so long. We have community working
24 groups and so forth. There was a working group set up
25 by the national park, roundtable by the County, and

1 then at that time, we had the Water Resource Protection
2 Plan update.

3 So, there was a lot of discussion, and there were
4 a lot of studies. Some of the studies are repeated in
5 your submittal. Some of them have come to fruition.
6 Some of them are still in process, like the 3D
7 numerical model. We're still waiting on that. That's
8 going to be, I think -- July of this year is the latest
9 we got.

10 So, the petition itself, though, looked at this,
11 and what they said was despite all this, there was no
12 plan that came out to protect the park. I think,
13 today, we are part of that plan with your acceptance of
14 the Phase 2 of the Water Use and Development Plan.

15 Okay. There are eight criteria that you must
16 consider. I'm not going to spell them out here, but
17 here are the first four. Next four. And we're going
18 to go through those real quickly, one by one. So, this
19 is framed in the context of what the Water Code
20 specifies as something you need to consider when you're
21 doing designation. It's a minimum. It doesn't
22 prohibit you from considering other things.

23 So, first off is whether -- is the 90 percent,
24 which many people are familiar with. This here
25 (indicating), the chart shows the ranges of sustainable

1 yield, recharge in the blue, and discharge to the
2 ocean. Okay? So, if you start with recharge in the
3 middle, we get those recharge estimates, and there are
4 a bunch of them out there, studies that we've done.
5 The latest we have is from the U.S. Geological Survey,
6 and it's a good one. One of the studies seen there was
7 mentioned three years ago. They were going to update
8 that. They looked at it. They said, actually, it's
9 good. There's no reason to update that. And that came
10 up with, actually, a higher number, this one, 183. So,
11 it extended the range from 104 to 183 on the recharge.
12 Sustainable yield is a percentage of that. And from
13 the -- the point I'm trying to make here is that from
14 these ranges, to apply the precautionary principle,
15 what we do is we take the minimum number in that range.
16 And there's -- there's alternatives and reasons you can
17 go beyond that minimum. We've done it in other areas,
18 but you have to have things in numerical models. You
19 have to have things like a very good monitoring network
20 to help you navigate through and manage the system.

21 So, the 38 million gallons I highlighted there,
22 that's a minimum, and that's what it is today. That's
23 the sustainable yield as established in the Water
24 Resources Protection Plan by the commission. That's
25 the number that guides us.

1 This is -- what does that number mean?

2 100 percent of that recharge that goes into the
3 aquifers, and you got high level and basal there. In
4 Keauhou, it's 44 percent, so it's a smaller amount.
5 It's a fraction of that with 56 percent continuing to
6 the ocean. And that is from not only near-shore
7 waters, anchialine ponds, even submarine discharges on
8 the ocean, but if you notice -- and we all understand
9 it's this deep freshwater resource. It's a confined
10 aquifer we discovered, and we're actually working to
11 get a better handle the extent of that resource.

12 Point I want to make is that even though we find
13 this deeper resource, it's all part of the whole
14 system. So, if you were to take water from the deep,
15 that would count towards the 44 percent. Okay? It's
16 not something separate. It's not a freebee. Okay?

17 Okay. So, that's the resource itself.

18 How much is there?

19 38 million gallons. Now, this is the actual use
20 from all the information we've gathered through our
21 water use reporting program. And the present, as of
22 November 2016 for all the wells that usually report,
23 it's about 39 percent. So, there really hasn't been
24 much change since three and half years ago. It goes up
25 and down. You can see that. And we govern by an

1 average. But, I guess, the point I'm trying to make
2 here is that the rate since 1971 has been about 334,000
3 gallons per year. Goes up and down. If you use this
4 trend to project future needs, the red line on the top
5 is the 38 million gallons. Usually, in that same
6 trend, you reach that in about 69 years, which is a
7 while from now. And I won't be around. I don't think
8 a lot of people in this room will be around. But, our
9 task is to make sure we don't hit that or go above it.

10 So, this here (indicating) is to emphasize -- I
11 guess, put into a map and a picture the southern
12 portion where the Kahaluu Shaft is which had the
13 chloride problems and then the expansion into the high
14 level. Very good -- very good chloride behavior up
15 there but sensitive to water levels. And then, the
16 puka down here (indicating) is where the plan is saying
17 they want to move the high-level pumpage. Good idea.
18 The 15 million gallons is really spread out between 9
19 in the basal and 6 in the high level, so that number's
20 going to switch with time, okay, as well as that 15
21 might increase with time, as well.

22 So, the authorized plan use, much of it was in
23 Phase 1 of the use and development plan that you folks
24 approved. You've seen this chart before. The red line
25 is the sustainable yield again. These were -- this was

1 the authorized plan use way back in some of the former
2 public hearings. These are the projected population
3 growth and the demand from that, but through the
4 reservations -- well, actually, Phase 1 of the Keauhou
5 Water Use and Development Plan came up with that figure
6 of 28. You're familiar with that.

7 So, that includes DHHL's reservation, so public
8 trust. It also includes State water projects of about
9 5 million gallons per day on top of (indiscernible)
10 through the water -- the water department has right
11 now. So, it seems that we have a pretty good handle on
12 that authorized plan use as of this date and -- if you
13 take those numbers, 28 over 38 to 74 percent. So,
14 that's the first criteria. Hasn't reached 90. It's at
15 74 percent.

16 Okay. Second, is there actual or threatened water
17 quality degradation as determined by the Department of
18 Health?

19 We had received -- and it's in your testimony --
20 in our consultation with Department of Health that in
21 their opinion, they don't have or see any water quality
22 degradation, and actually, mitigative components are in
23 place with outlawing the cesspools and the requirement
24 to upgrade existing cesspools within 750 feet of the
25 shore to protect the near-shore waters.

1 MR. BEAMER: Sorry. Just a quick question --

2 MR. HARDY: Sure.

3 MR. BEAMER: -- about water quality. So, the
4 chloride issues in Kahaluu Shaft aren't --

5 MR. HARDY: They're of concern, and actually,
6 I have -- I'll get into that a little bit later, in a
7 later criteria. But, primarily, to get to your
8 question more, is the water department looks at all the
9 other things besides chlorides. It's, you know,
10 pesticides, nutrients, all those types of things. Your
11 staff doesn't -- we rely on the Department of Health,
12 and that's what the code directs us to look to.

13 MR. BEAMER: No. I understand that --

14 MR. HARDY: Yeah.

15 MR. BEAMER: -- but, you're saying the
16 Department of the Health said there is an issue --

17 MR. HARDY: They didn't have any issues with
18 water quality in the Keauhou Aquifer System Area.
19 Yeah. We had asked prior to coming here if there's any
20 updates, and there were none. So, it's been three and
21 half years, but they stand on the same testimony.

22 MR. BEAMER: Okay.

23 MR. HARDY: Okay. So, onward to Criteria 3
24 -- almost halfway -- whether regulation is necessary to
25 preserve diminishing groundwater for future needs as

1 evidenced by excessively declining groundwater levels.
2 This is something that, actually, staff brought up. It
3 really isn't talked too much, and I'll get to it real
4 quick. But, first off, this is the information you've
5 seen before, water levels, but this is in the basal
6 portion. And these are from monitor wells within the
7 park in the top graph and from next door, from -- I
8 think it's eight water wells in Kohanaiki, which is
9 real close.

10 They've been monitoring water levels pretty well.
11 In the park, you can see, actually, since -- this is
12 about ten years' worth, but there's a gap here. But,
13 water levels have actually gone up, so not declining in
14 the basal. It's been steady at Kohanaiki. So, in the
15 basal aquifer -- and this is, actually, kind of
16 typical. You're not going to have huge fluctuations.
17 And what you're watching for is trends that are going
18 down. And actually, in the basal aquifer, what we like
19 to look at is not so much the water levels here but
20 water levels in a deep monitor well to see how the
21 transition zone is reacting, because what happens on
22 top happens quickly with the climate. Tides are in
23 here (indicating), all those kinds of things, but the
24 midpoint down deep is the one that is capturing the
25 momentum and the cumulative effects in a bigger area.

1 And we have a few wells like that, and they seem to be
2 steady, as well.

3 Now, it's a different story when you look at the
4 high water levels, the ones that the County is looking
5 to move and have moved into the south. These are two
6 -- right now, basically, kind of, two observation
7 wells. You've seen this before. This (indicating) is
8 the Komo, and this (indicating) is the -- this is
9 Doutor Coffee. So, we're talking about 40-foot levels.
10 This is typical on high-level aquifers. You're not
11 talking about few tens of feet. You're getting -- once
12 you start getting past 25 feet, you're starting to get
13 into high-level aquifers, very sensitive to water level
14 changes but insensitive to chlorides. Chlorides
15 usually stay very (indiscernible).

16 Slight trend of decline. Wouldn't say it's
17 excessive. And then, you have this Doutor Coffee,
18 which is about less than a mile south. And although
19 the data is recent, it's been -- you know, we've been
20 looking at it because of the increased interest of the
21 petition. There's actually been a trend going up, so
22 you have these compartments that are behaving
23 differently. I think Commissioner Pavao was pointing
24 that out earlier. We don't really know in the high
25 level. It acts differently than a basal aquifer.

1 This here (indicating) is the Honokohau Well. It
2 pumps -- it had pumped, I think, about -- you can see
3 there's a trend going down. And this is twice the
4 height of the two wells you saw earlier, about 80, or
5 so, feet above sea level. Trend is going down. But,
6 you have to remember that the earlier trend on the left
7 is when they were pumping about one and a half million
8 gallons, and that's a lot for a high-level source.
9 Typically, you won't see that. You don't get that kind
10 of production without really, you know, big drawdowns.
11 Here you got about four-foot -- five-foot drawdown from
12 that amount of water. The lower portion on the right
13 is they increased the pumpage up to 2 million gallons,
14 so there's going to be, obviously, a decrease in water
15 level. Whether they can maintain that, I guess, time
16 will tell. So, that's new data.

17 Here (indicating) is Keopu Well in the vicinity of
18 the park, as well. This one pumps, I think, half a
19 million gallons per day. It's been doing it for a long
20 time, and it's been pretty steady at about 40 feet, 38
21 feet above sea level. This one seems to be reacting
22 okay. No excessive declines.

23 And then, this (indicating) is the QLT, Queen
24 Liliuokalani Trust Well, which has been pumping one and
25 a half to two, I think, million gallons per day. And

1 at least since August of 2015, there's been a rise.
2 So, I don't know if it's -- you know, why that's
3 happening, but it could be a number of factors, climate
4 as well as changes in pumpage.

5 So, basically, we don't see -- you know, we don't
6 see excessive water levels changing. Enough said about
7 Criteria No. 3.

8 Now, 4 and 5 are actually -- they speak to
9 chlorides, and the petition itself kind of combines
10 them into one, so that's what we're going to do, as
11 well. And the key point here is whether the rates and
12 times, spacial patterns, depths of existing withdrawals
13 are endangering the stability or optimum development of
14 the ground water due to upconing or encroachment of
15 salt water. So, I think the keyword there is optimum
16 development. And there's a D word, but that's what the
17 law says.

18 Okay. And No. 5 is whether the chloride contents
19 of existing wells -- so it's speaking to water
20 development wells -- are increasing which reduce the
21 value -- materially reduce the value of their existing
22 uses. So, that's kind of the lens we're looking at,
23 these chlorides. Are they affecting wells and the
24 development of the utility of the aquifer?

25 Map just repeats what we showed earlier, but

1 that's, in fact, what the County has been doing by
2 moving off of the Kahaluu Shaft, the Kahaluu Shaft in
3 the south. Way back in the '70s, when the State
4 developed it, it was projected to be about a 10-,
5 12-million-gallon-per-day source. Didn't pan out that
6 way. Chlorides were increasing and you'll see in the
7 next few slides how much.

8 And so, they moved -- tried to reduce the pumpage.
9 The big green circle is still big green. That's
10 showing the relative amounts of pumpage as opposed to
11 the spreading out for the blue wells in the high level.
12 They were trying -- they were trying to optimize
13 development of the aquifer, so it's actually -- it's
14 kind of ironic that the actions in trying to optimize
15 the aquifer is actually -- it's a concern to the park
16 because of their location, which is -- which is valid,
17 I think, and the leakages and so forth. But, it's
18 really the optimization, and that's what the County's
19 trying to do.

20 This here (indicating) is the pumpage of the shaft
21 since the late '70s, and you can see the pumpage height
22 was right -- just about the late '80s, early '90s, and
23 then there was a decline since then. And the reason
24 for that was because the chlorides.

25 This (indicating) is a chart of the chlorides.

1 And it's hard to see. I apologize. But, 1990 is right
2 about here (indicating), and that's when -- that's when
3 they started cutting back on their pumpage. Well, the
4 reason for that is because that happens to be where the
5 Environmental Protection Agency's secondary guideline
6 of 250 is. So, they started, hey, we can't pump so
7 much. Let's keep it down.

8 And the interesting thing here is you see the
9 orange is -- that's the left side. There's two
10 galleries in this shaft. They're trying to skim the
11 aquifer. They're not going down deep near the
12 interface of the transition zone. They're trying to
13 skim. The left gallery has never gone above 250, but
14 the right side has gone above. And I believe the top
15 is the mixture of the two. So, that's why they start
16 -- and they've been cutting back ever since from that
17 rate of 10 to 12 and they're down to about 6. They
18 might have to cut back a little more and move that
19 pumpage to the high level.

20 Just for information purposes, the World Health
21 Organization has 500 parts per million as their, I
22 guess, secondary guideline or suggested limit, and that
23 well hasn't ever -- that source hasn't ever exceeded
24 that.

25 So, that's all I need to say about that.

1 Let's see. Hang on just a second. A lot of stuff
2 to go through.

3 So, again, just to repeat, Items 4 and 5 in which
4 the petition claims the salt water encroachment of the
5 Kahaluu Shaft has affected the park and necessitated
6 development of high-level wells in the park is a reason
7 to designate. But, staff -- your staff is really
8 rejecting that analysis for two reasons, because the
9 evidence shows there has been no increases in the park
10 by the earlier monitor wells, and also the criterion
11 really relates to the development of ground water for
12 the public trust uses like domestic use that the County
13 provides. There's other nonpublic trust uses, as well,
14 but there are public trust uses that the municipal
15 system supplies. So, that's why your Hawaii staff is
16 rejecting that analysis and looking at the Water Use
17 and Development Plan to address it properly by
18 spreading pumpage to the south. We think that's a good
19 idea.

20 So, moving on with No. 6, excessive preventable
21 waste is occurring. The petition -- I think they
22 quoted in the petition something on the order of like
23 1,000 gallons per day, which, I think, came from more
24 north in the Kiholo resort areas and things like that.
25 But, part of the Phase 1 Water Use and Development

1 Plan, the single-family residences, they actually
2 looked at and did the analysis within their system, and
3 they came up with the bottom number 430 gallons per day
4 per unit for the Keauhou area and the system down here
5 (indicating). The water system standards, which is --
6 all the counties use that. It's a planning number.
7 It's 400. Staff doesn't really think that's excessive,
8 although it's understandable in a hot area like this,
9 people can use -- can use more.

10 However, you may recall -- and we think it was a
11 good thing as part of this investigative stage in
12 considering designation when Barry Usugawa came before
13 you to present what the Board of Water Supply on Oahu
14 had done. And this chart was a good -- good piece of
15 information to show the effects of conservation and
16 wastewater reuse and also, thirdly, increases in the
17 pricing structure. And I think Keith talked about that
18 earlier in his testimony in the plan about pricing
19 structures.

20 So, there has been a decline, a 10 percent
21 reduction on Oahu. Even though the population and all
22 that development since the early '90s has taken off,
23 it's amazing that the water use is less now simply
24 through conservation, wastewater reuse, and pricing
25 structure changes. So, that's something that could

1 bring that 430 number down even more.

2 So, this is actually the biggie, I think, and it's
3 in the submittal, as well, is the serious disputes
4 respecting the use of groundwater. I think that can be
5 encapsulated into two broad categories. Basically, the
6 -- and what we said in the submittal, the two
7 categories are the protection of public trust uses and
8 scientific opinions about the aquifer, about
9 traditional and customary, about the ecosystem, things
10 like that.

11 So, we're all familiar with the spirit of Kaloko
12 and the reason the national park came to be --
13 traditional and customary, perpetuate that. Also, the
14 ecosystem within that park. And we talked about a
15 whole litany of biology there from the mullet, the
16 damselfly, waterbirds, the limu. All that testimony
17 was discussed.

18 So, again, maybe starting off with the protection
19 of public trust uses in those two broad categories, in
20 the plan, it was described. It was discussed a little
21 bit earlier in testimony about the Aha Moku system.
22 That's been established with work with Leimana and the
23 Aha Moku luna that we've been in contact with. Kawehi
24 Nguyen is a representative. In fact, we have a water
25 -- a well construction permit we've already sent to

1 them for comments. Haven't heard anything back yet,
2 but we're already moving this into place.

3 And that's what we want to do as far as looking at
4 trying to get input for traditional and customary
5 practices. It's not everything. I think, you,
6 commissioners, have pointed out there's more than just
7 that, but it's a start. We actually in the past have
8 always looked to historic preservation. We always
9 review the well construction permits through them. If
10 there's any archaeological sites, if a permit needs
11 some kind of assessment like that -- and this is any
12 well -- we hold up the permit until it's done.

13 There's also -- we also look at the OHA's kipuka
14 database. It's kind of more the archaeological things,
15 and we look at that, as well. But, OHA's asked us not
16 to use it, you know, by itself and we don't, but it's
17 still a resource. It's still a tool. And with the Aha
18 Moku, that's another way of trying to get at
19 traditional and customary, so we're hopeful that that
20 gets some more information.

21 Our permits are also on our bulletin. It's always
22 online. Month to month, anyone can ask for a copy of
23 that, and that helps to get the word out to people who
24 have traditional and customary. By law, we're
25 obligated to address those. If we can identify them,

1 by law, that's -- the staff, not just the applicant.
2 If it's there, we have to look. If there are things
3 there, how do we mitigate it, and we can attach special
4 conditions to permits for them to address that. So,
5 that's the way we're looking at how we can address the
6 public trust uses is through the well permitting
7 review, upping our review to include things like Aha
8 Moku.

9 So, scientific opinions, the ecology. This is
10 from the petition, and I know it's busy, but the key
11 graph, really, is, I guess, what kind of summarizes
12 what became -- you know, that part of the iceberg that
13 was just below the surface that we really got to watch
14 out for. It's that bottom portion, and this speaks to
15 -- the orange -- black damselfly and the limu, the
16 other -- the other biology and organisms such as opae
17 ula and the mullet.

18 I've come to learn all these scientific names from
19 biologists -- euryhaline, stenohaline, and so forth.
20 But, they've evolved in that tidal zone area. They can
21 -- they've adapted to a wide range. But, these others
22 are the ones that -- and specifically the damselfly is
23 the one that's very sensitive in its life cycle. The
24 limu, it's an optimum growth thing. It's not a -- like
25 an upper threshold or anything like that. And on this

1 chart, they're showing various chlorides or percentages
2 of sea water, actually, and the limits.

3 So, what's key, I think -- and this is also from
4 the petition. The bottom chart shows the increases in
5 salinity since the '50s, I believe, '60s of three
6 select anchialine ponds. So, there has been increases
7 in the pond now. And it's hard to see, but on the left
8 side, it shows -- and this is salinity -- 12 to the low
9 about 15 percent salinity right now. And it's been
10 around that range, I guess, for about -- for ten years
11 now.

12 And what that means to the damselfly survival --
13 this is a laboratory data and study that they had done.
14 And you can see this chart, the survival of the larva,
15 you know, the young. When it reaches 20 on the right
16 there, they all die off. There's no survivability.
17 That bar shows from that previous graph where we are in
18 on that range of the tidal range of all the anchialine
19 ponds. So, they're on the downward side of their
20 survivability, but they're not up to where they all die
21 off.

22 In looking at one of the pieces of information
23 from the investigation, from the order that the
24 commission made, it asked the national park, you know,
25 what -- you know, what are the traditional and

1 customary. They did talk to the damselfly, saying it
2 was used for spiritual purposes. Just wanted to note
3 that on the record.

4 This here (indicating) is a blowup of their
5 monitoring wells. Little bit difficult to see, but
6 actually, they have improved from these -- from here
7 (indicating) back in the early 2010 to 2016. The red
8 goes with the red. Green goes with the green. They
9 don't have data for the blue. These are three monitor
10 wells that are within the park.

11 So, actually, chlorides have gotten better in the
12 observation wells, but curiously, the anchialine ponds
13 have increased. Different time scales, but that's just
14 what the data shows.

15 Table 1 in your submittal kind of, I think,
16 encapsulates maybe the argument in the end. And this
17 is comparing sustainable yield with what the park was
18 answering to the questions from the commission of how
19 much water do you need for traditional and customary
20 ecosystem. And the national park said the 2014 average
21 pumpage or existing pumpage at that time. And if you
22 look at the percentages of sustainable yield against
23 what it is now -- 37 percent pumpage right now -- it's
24 a little bit lower because, of course, this is 2014.
25 2015, there's a little bit -- we're up to 39 percent.

1 And coastal leakage would be not quite double that but
2 63 percent.

3 But, if you look at recharge, which is actually
4 the whole picture, because sustainable yield is only
5 part of it, the actual pumpage is 16 percent of all the
6 water that's in the -- what we think is the entire
7 aquifer system area moving through different paths
8 towards the ocean. And 84 percent would continue to
9 the ocean.

10 So, that's the -- I guess, the balance, if you
11 will. And really, you know, whether this is enough or
12 not enough for the ecosystem, I think that's one of the
13 more unclear, murkier things right under the water in
14 this iceberg we're trying to deal with and navigate
15 around. We did ask the department's aquatic resources
16 -- it's Exhibit 12 -- and they feel that there's --
17 that the integrity of the park right now is okay. So,
18 you have differences of opinion from all the scientists
19 like most sciences.

20 So, really, in the end, ultimately, it's up to the
21 commission to decide to balance between all the public
22 trust uses -- domestic, DHHL, reservations, the
23 resource itself, and traditional and customary. And
24 staff feels that it's -- you know, the petition isn't
25 really the venue to do this and approach this large

1 question. It's more properly addressed in the Water
2 Resource Protection Plan, which the commission also has
3 the authority to approve these numbers. It's better to
4 get more information on that in that venue.

5 Just to, again, summarize on the No. 7 point, the
6 water resource protection is the appropriate process to
7 address sustainable yield modifications or changes.
8 2017, we're working on it. And we're also trying to
9 say affirmatively that petitions for designation are
10 not the appropriate process to update sustainable
11 yield. So, that's staff's position.

12 Last but not least, No. 8, is whether water
13 development projects have received any approvals that
14 will result in the former seven criteria. We don't
15 think that that's occurred. Some of the points brought
16 out in the petition were talking about EISs, installed
17 pump capacities, and so forth.

18 Just to throw out and address those -- some of the
19 number, the current installed capacity right now is 93
20 percent of sustainable yield, but as you know from the
21 testimony and the data, it's, you know, less than half
22 of that. It's 39 percent right now, and that's
23 understandable because nobody pumps 24/7. There's fire
24 and -- fire backup. There's redundancy in the system.
25 So, you never go up to the capacity, even though those

1 developments go over 90 -- 90 percent. So --

2 MR. BEAMER: Roy, just a question --

3 MR. HARDY: Sure.

4 MR. BEAMER: -- on that for clarification.

5 So, you're saying the existing pump capacity for what's
6 in the ground, what's installed, is -- if it were
7 pumped to its fullest capacity, it would be 93 percent
8 of sustainable yield?

9 MR. HARDY: Right.

10 MR. BEAMER: But, you haven't allocated that.
11 You don't pump wells to its --

12 MR. HARDY: Typically, yeah.

13 MR. BEAMER: So, if our reporting is
14 accurate, then we want to say it's more like 39 percent
15 of sustainable yield?

16 MR. HARDY: Yes, correct.

17 MR. BEAMER: Okay.

18 MR. HARDY: And it's under -- you now, and
19 it's understandable because nobody pumps 24/7, and
20 there's on times, off times, you know, electrical
21 demand, pricing, and all that. And there's
22 overestimates for, you know, growth and fire, you know,
23 protection, things like that.

24 MR. PAVAO: And, Roy, if I may --

25 MR. HARDY: Sure.

1 MR. PAVAO: -- you might want to clarify,
2 too, that some of these wells are purely standby --

3 MR. HARDY: Yeah.

4 MR. PAVAO: -- they will never run. You
5 know, two of them will never run at the same time, but
6 they're on the same site. And it's just standby. So,
7 although the number of wells is great, the actual
8 pumpage is not.

9 MR. HARDY: Right. So, we're just addressing
10 one of the issues that the petition brought up and
11 saying that's true, but the reality is you never pump
12 up to the capacity. And, you know, if you look at
13 other areas like on Oahu, I think the capacity is way
14 above the sustainable yield, but they don't pump near
15 the sustainable yield because standby, fire protection,
16 all those type of things, on and off times.

17 And so -- and then the second part is that Phase 1
18 and 2 of the Water Use and Development Plan, we feel,
19 will help to avoid any of the previous seven criteria.
20 That's a goal. And I think the commission was wise in
21 having the County update the Water Use and Development
22 Plan so we can tie what are your planned uses and how
23 are you going to meet those demands so that you don't
24 hit those criteria.

25 So -- so, in conclusion, staff doesn't really feel

1 that any of the eight criteria are met clearly. And
2 there -- but we also understand that there's a need to
3 protect all the public trust uses and resources of both
4 the park and the larger community. So, that's why in
5 some of the discussion about the well construction, you
6 want to include more input for the traditional and
7 customary as is required by law by us as well as the
8 applicant.

9 But, we also came up with a number of other issue
10 -- alternative actions to designation, as well. It's
11 not just the traditional and customary, although we
12 have it first on the list there with the Aha Moku.

13 We also added that new private wells in the
14 ahupuaas directly around the park would be encouraged
15 to put in a deep monitor well, if none already exists.
16 That's actually already happened when we went with the
17 well approvals at Kohanaiki. They put in three wells,
18 actually, and, you know, it's in a deep monitor well.
19 That's part of the information on the water levels and
20 chlorides you saw earlier, so it's a good thing. If
21 there's other private, county -- if there's wells that
22 go in, we're going to encourage them to put in a deep
23 monitor well around the park in that area.

24 Third, this is a staffing -- and most of these are
25 staff things to do. We're doing the remediation of the

1 Keopu deep monitor well. I'm happy to say we actually
2 stopped the leakage from the deep freshwater confined
3 aquifer. That's not happening anymore. That's a good
4 thing, although, I guess, maybe in some other
5 perspective, people say, hey, that was freshening up
6 the deep salt water. I don't know if it ever got to
7 the basal, but in any case, that's not a good thing to
8 do. We fixed that.

9 And we're working on its sister deep monitor well
10 to get a better production -- better monitor well so we
11 don't have all that leakage right next to it. And
12 we're still going through the construction on that as
13 we speak. About 80 percent finished.

14 Fourthly, I guess, it's on Hina Lani Road. Kaloko
15 irrigation well. One, it's a private well, but we've
16 been in discussions. And this is directly above the
17 park. We want to change that into a deep, deep monitor
18 well, see if the freshwater aquifer also exists below
19 that, as well, because you have the Keopu. You may
20 recall Kamakana Well, which is a little bit further
21 north and closer to the park. That one would be right
22 above the park. And we have the CIP funding for that,
23 and we're working on getting that to happen.

24 Fifth, what we're saying -- and this is a staff
25 thing, too, that we need to up the enforcement of

1 monthly water well reports from all production and
2 monitor wells. We really haven't in the past gone
3 after people for not reporting. We tend to pay
4 attention more to the people who are doing work without
5 a permit. But, what we're suggesting is in the Keauhou
6 area, we have to start enforcing and saying if you're
7 late, you know, there's some consequences. And we have
8 some things within the department, civil resource
9 violations and so forth. We got to work out some of
10 the details, but what we're suggesting here is that we
11 have to start upping the enforcement so we get very
12 timely data. It's pretty good right now, but even so,
13 it's just a good thing to have.

14 Sixth, if the authorized plan use reaches 80
15 percent or 30.4 million gallons per day, staff will
16 commence public information meetings about the aquifer,
17 the status, and designation. This is in the code.
18 It's actually something we're supposed to do, anyway.

19 Seventh -- and this is the one that might confuse
20 most people, so I'll discuss it a little bit. If the
21 plans of the Keauhou Water Use and Development Plan are
22 not followed, if they don't drill in the south, or they
23 don't, you know, do Aha Moku review or they don't try
24 wastewater reuse, and the 12-month moving average of
25 pumpage reaches 17.1 mgd, yeah, throughout the whole

1 aquifer, we will treat that like No. 6, okay, at 80
2 percent. And that number happens to be -- that 17.1 is
3 -- is 4 -- it's 45 percent of the sustainable yield.
4 So, it's actually kind of -- the idea was if you go to
5 the south, you should split half of the 38 to the
6 south, half in the north. And so, if you take half of
7 that 90 -- 45 percent of the sustainable yield up in
8 the north, so that's how you come up with that 17.1.
9 So, we just didn't pull it out of the air. There's a
10 little bit of reason -- reasoning behind it.

11 MR. PAVAO: Roy, excuse me.

12 MR. HARDY: Yes.

13 MR. PAVAO: Do you even have the target to do
14 this? I mean, is this kind of -- 45 percent. That's
15 -- how can you explain this?

16 MR. HARDY: I think, again, it's part of the
17 commission's role in being precautionary and trying to
18 -- and with the idea of we're trying to optimize the
19 pumpage. We don't want to take, you know, all the
20 water out in one spot like was shown in the Kahaluu
21 Shaft --

22 MR. PAVAO: No. I understand that --

23 MR. HARDY: But --

24 MR. PAVAO: -- I understand that --

25 MR. HARDY: Yeah. But, the authority here is

1 we're just holding public informational meetings. So,
2 I think we can do that at any time, but it's just we're
3 saying that we're being precautionary. If that happens
4 and none of the -- none of the plans are being
5 followed, well, then, you know, what was -- you're
6 starting to hit inoptimal situation.

7 MR. PAVAO: So, is this like a penalty for
8 not following the plans?

9 MR. HARDY: I guess you could look at it that
10 way, if a information meeting is a penalty.

11 MR. PAVAO: Well, informational meeting,
12 you're forcing the participants to attend, which, you
13 know, costs money.

14 MR. HARDY: Yeah. I guess you could say
15 that, yeah, that penalty. But, again, I think it's in
16 the spirit of being precautionary. And then --

17 MR. PAVAO: 45 percent. You just took half
18 of the 90, and that's the reason for that?

19 MR. HARDY: With the understanding -- with
20 the understanding that in spreading out pumpage, you
21 know -- yeah. And you're right. I think, earlier, you
22 said we really don't know the high level, whether you
23 can do that in a high level. But, at this point, we
24 really don't know. You've seen the different behaviors
25 in water levels in a high level, which is kind of

1 typical and some of them atypical --

2 MR. PAVAO: No. I guess what I'm saying is
3 you took 45 percent. Is that what you're averaging, or
4 because it's half of 90?

5 MR. HARDY: Half of 90, which is designation
6 for the entire aquifer.

7 MR. PAVAO: Yeah.

8 MR. HARDY: So, that was the reason. It's
9 just a proposal by staff for alternatives.

10 Do you have a question? Yeah.

11 MR. BEAMER: (Indiscernible).

12 MR. HARDY: And then, one more.

13 MR. BEAMER: (Indiscernible) --

14 MR. HARDY: Yeah. Let me finish the one
15 more. And then, the last one is the USGS has been
16 working long time on this 3D model, which will help to
17 estimate what's going to happen to chlorides, which
18 will be a really good thing. Again, they said they
19 won't have anything for another six months. That's
20 July of this year. Whenever they finish this model,
21 what we're saying is we will bring that to the
22 commission for your consideration. With that new
23 information, you know, that will be in your hand, we'll
24 decide what path to take and navigate through the
25 protection of the resources.

1 CHAIRPERSON CASE: Okay. Thank you, Roy.

2 I'm going to take questions from the
3 commissioners. Let's start with Kamana.

4 MR. BEAMER: Mahalo, Roy. And again, mahalo
5 to the staff and the department as well as NPS for
6 this, you know, fairly lengthy and thorough process.
7 Again, I really feel like we've grown from the three
8 years, at least, that I've been involved in this and
9 hopefully are getting closer to resolution.

10 If you can explain, Roy, you know, throughout this
11 process, one of the questions that I've gotten, you
12 know, from community members deals with chlorides in
13 Kahaluu Shaft. And then, you know, if you can, sort
14 of, explain, since we have you here, the relationship
15 between that, that we have chlorides in one well but
16 we're not, you know, going above the sustainable yields
17 of the entire aquifer. And -- just so the community
18 can, kind of, have clarity on how that happens, and we
19 can continue to pump in other places in spite of this
20 one particular well having high chlorides.

21 Does that make sense?

22 MR. HARDY: Yeah. And, yeah, when you get to
23 the chlorides, there's two parts of it. It's the
24 localized versus, you know, what's happening in the
25 entire aquifer. So, if you see chlorides going up all

1 over the place excessively, hey, something's wrong with
2 the sustainable yield number for this area. But, if
3 you -- I always like to use the analogy. Like, it
4 doesn't rain in one spot over that entire area. You
5 cannot pull all the water out from that one spot. And
6 that shaft, as big as it is, is a very tiny spot.
7 You're talking about taking one third of the
8 sustainable yield from that. You're going to have
9 chloride problems.

10 And so, it's a localized issue, and it can be
11 mitigated as, I think, the County was attempting to do
12 by spreading out pumpage as they found resources in the
13 north in the high level. They were moving and
14 reducing. So, chlorides -- and you could see the
15 chlorides were recovering at times, and then, they've
16 upped their pumpage again. And they're trying to, I
17 guess, zero in on what's an optimal amount of pumpage
18 to stay within the desired chloride limits for that
19 well. And it's a well-by-well thing.

20 Basal wells are more sensitive. One of the things
21 in the County plan said they're not (indiscernible).
22 Aren't going to be developing any more basal. They're
23 looking to the high level. High-level sources are very
24 insensitive from everywhere we see to chlorides. In
25 fact, all the wells we've showed with those water

1 levels going up and down, they're like less than 10
2 parts per million, which is basically like rain water,
3 and that's what they're capturing.

4 When you get into the basal, you start floating on
5 top of salt, and you get that mix going in the
6 transition zone. Our construction standards limit the
7 depths of wells, because a well is a straw. It's a
8 three-dimensional straw. The bigger the hole, the
9 longer the hole, more surface area, more water can
10 flow, more productive that well. But, you don't want
11 to make that straw too big because -- in that one spot,
12 because if you go drill too deep, you get close to the
13 transitional zone, and you're going to start sucking up
14 salt water. So, we limit the depths on an wells to a
15 quarter depth towards the transition zone. All new
16 wells.

17 Old wells -- and a lot of them are on Oahu -- they
18 did it the old way. You know, drill that one spot, get
19 the biggest bang for your buck, and pump a lot. But,
20 those are the ones that get chloride problems, and so,
21 they have to back off down the road as the lens adjusts
22 to the new equilibrium.

23 MR. PAVAO: Roy, I might, because I was
24 involved in that shaft issue many, many, many years
25 ago, might share some information. When they drilled

1 that -- exploratory well and they only hit four feet of
2 water sitting above sea -- of salt water, they knew
3 they were going to run into problems, because the well
4 was intended for a large capacity. So, what it decided
5 to do was do infiltration galleries, go both ways, and
6 they stretched couple hundred feet, you know, tie
7 actual tunnels that central -- I think it was a series
8 of five, six pumps that was supposed to pump from the
9 infiltration galleries.

10 Whether it was a design mistake or a construction
11 mistake, the column that the pump sat it, the bottom
12 was open. So, instead of sucking from the galleries,
13 they were sucking from the bottom column, which started
14 the upconing of salt water, that they never got over
15 it. Many years ago, water supply investigations found
16 out that the bottom of the column was open, and they
17 had a major project to redo the pumping columns.

18 MR. HARDY: Right.

19 MR. PAVAO: And they did plug the bottom, and
20 they allowed for suction from the top, which means now
21 instead of upconing, you were sucking from the
22 galleries.

23 MR. HARDY: Right.

24 MR. PAVAO: At that point in time, the
25 chlorides got better, in fact, very brief time, because

1 they wanted to get so much water out of that well
2 because there was so much commitments out of the well.
3 As a result, we have what happened today. And
4 fortunately, water supply now is not relying heavily on
5 that well because they know the chloride's bad. And
6 that's the reason why the southern wells are being
7 developed.

8 MR. HARDY: Right.

9 MR. PAVAO: But, it was a big mistake made
10 way back when that well was first installed -- that the
11 shaft was installed, rather.

12 MR. HARDY: Right. So, I guess, the nexus
13 here is that -- the link is that that open --

14 MR. PAVAO: Yeah.

15 MR. HARDY: -- was like having a well that
16 was too deep.

17 MR. PAVAO: Yeah.

18 MR. HARDY: Close to the transition zone.

19 MR. PAVAO: And that started the upconing of
20 salt water. Instead of coming from gallery, they were
21 sucking from the bottom.

22 MR. HARDY: Right.

23 MR. PAVAO: Because that column was probably
24 10, 12 feet into the salt water area, so it was sucking
25 up salt water.

1 MR. HARDY: So, in -- sorry. In any case,
2 the construction standards, nobody can go beyond, you
3 know, quarter of the depth to the --

4 MR. PAVAO: Right.

5 MR. HARDY: -- middle of the transition zone.
6 So --

7 MR. PAVAO: Yeah.

8 MR. HARDY: -- in essence, trying to
9 encourage a skimming type of approach with these --

10 MR. PAVAO: Yeah --

11 MR. HARDY: -- vertical wells --

12 MR. PAVAO: -- like I said, that was either a
13 design error or a construction error. I don't know
14 which, but it did happen.

15 CHAIRPERSON CASE: Mike.

16 MR. BUCK: Yeah. Thank you, Roy, and thank
17 you very much for that presentation. I know we are
18 blessed to have a civil servant like Roy Hardy, who's
19 giving you the straight truth all the time.

20 So, the staff recommendation is to deny the
21 petition but to include the eight recommendations that
22 you have. And I'd like to ask you a couple
23 questions --

24 MR. HARDY: Sure.

25 MR. BUCK: -- about the eight.

1 MR. HARDY: Sure.

2 MR. BUCK: On the first one, which has to do
3 with consultation, would you agree that we could add
4 DHHL for consultation as well as the Aha Moku --

5 MR. HARDY: Sure.

6 MR. BUCK: -- that that wouldn't be a
7 problem?

8 And number two, about encouraging applicants to
9 install a deep monitor well, can you add a little flesh
10 on encouragement and what does that mean? What happens
11 if they're not able to or they don't want to or the
12 cost? What's the additional cost of --

13 MR. HARDY: Right.

14 MR. BUCK: -- what that would be?

15 MR. HARDY: Well, I'll lean back on the
16 example of Kohanaiki that we did years ago in that we
17 knew that they're going to be putting in seven wells in
18 the basal right next to the park and pumping for that
19 golf course. That's a lot. And they're going to
20 desalt it. And so, obviously, hey, wait. Something
21 has to happen here because that's right next to the
22 national park. That's traditional and customary uses.
23 It's the point of the park. And what we did was speak
24 with them, talk with them, and the national park
25 actually, you know, raised their concerns through the

1 bulletin and so forth.

2 And in the end, there was -- we suggested, hey,
3 you should put in monitor wells along the boundary
4 between the two, and they -- we were suggesting just
5 one. They actually put in three, which is -- and we
6 said great. So, they put them in and we monitor them.

7 Had they not agreed to it, what we probably --
8 what we told them is that, well, you know, this is too
9 big of an issue for the staff just to, you know, say.
10 We want to bring it to the commission if you don't.

11 And so, that's, I guess, how -- what we would do
12 is we'd encourage. And I guess the encouragement is,
13 well, if we think it's important enough of an issue,
14 then we would bring it to the commission.

15 MR. BUCK: Okay. And we heard from the
16 County that -- as far as production of the water units
17 is some leverage that they have, but your Item 2
18 doesn't say you would bring it in front of the
19 commission. It just says encouragement.

20 But, you're saying that that would be the leverage
21 you'd use, from the State perspective?

22 MR. HARDY: Right.

23 MR. BUCK: So, that might be something you
24 might want to add to the No. 2, that specifically,
25 you'd bring it forward to the commission.

1 MR. HARDY: If they -- if they --

2 MR. BUCK: If you encourage them and they
3 decided no --

4 MR. HARDY: And they say no?

5 MR. BUCK: -- they don't -- they didn't plan
6 to do it. But, we're hoping with encouragement of the
7 State as well as the ability for the County to leverage
8 water units, that they'll see that that's just the wise
9 decision.

10 MR. HARDY: Okay.

11 MR. BUCK: But, Item 3 and 4 about the deep
12 water wells, we do have the financing to do that on our
13 own?

14 MR. HARDY: Yeah.

15 MR. BUCK: Okay. Item No. 5. This is about
16 report -- the reporting. You says it will be brought
17 to the commission for enforcement and sanctions at the
18 discretion of the chairperson.

19 If you can bring it in front of the commission,
20 why -- why would it be at the discretion of the
21 chairperson?

22 MR. HARDY: Well --

23 MR. BUCK: Is that to bring it forward to the
24 commission, or -- I'm just trying to get clarity --

25 MR. HARDY: Yeah. Well, we're -- yeah. I

1 guess, that was in the details. One of the things is
2 we're trying to work out the civil resource violation
3 system, which (indiscernible) you know, former employee
4 of DLNR. We're trying to work it out so we can work on
5 the enforcement so that it's more like a -- you know,
6 it's like a traffic ticket, because people -- they're
7 supposed to report every month. We haven't decided,
8 well, gee, what's -- you know, three months, six
9 months. Probably more than six months is way too long.

10 But, on top of that, there's just not pumpage.
11 There's chlorides and water levels. And a lot of
12 people don't have the means to do some of that, too.
13 So, we have to work out the details of this
14 enforcement.

15 MR. BUCK: Okay.

16 MR. HARDY: And then, hopefully, do it more
17 at a -- within the department, like traffic ticket,
18 because there would probably be a lot of people if --
19 once we decide on it. Hey, you're behind or you didn't
20 report your chlorides this month or conductivity. And
21 I don't think that's something the commission really
22 wants to look at --

23 MR. BUCK: We talked about smaller users.
24 They don't have the wherewithal --

25 MR. HARDY: But, if it's a big thing --

1 MR. BUCK: -- it was a bigger user --

2 MR. HARDY: Yeah.

3 MR. BUCK: -- that was not reporting, that
4 that could be brought to the commission directly to
5 make sure that we follow through.

6 MR. HARDY: Right. That's another
7 encouragement thing.

8 MR. BUCK: Yeah. And then, finally, on No. 6
9 and 7, I look at those as triggers in case the County's
10 not following the plan, the pumpage. You showed the
11 chart of the designation process, where we are right
12 now.

13 If No. 6 and 7 were, indeed, triggers -- for some
14 reason, no one's following the plan, we're overpumping
15 -- would that require another petitioner to come in to
16 designate, or is that something --

17 MR. HARDY: To start the process again, yes.

18 MR. BUCK: But, that's something the
19 commission could do on its own?

20 MR. HARDY: Yes.

21 MR. BUCK: Okay. Thank you.

22 MR. HANNAHS: Thank you. Thanks, Roy, very
23 much. Catching me up on your ten years of experience
24 on this issue.

25 First, with regard to traditional and customary

1 knowledge, in this day of most cultural Hawaiian --
2 Hawaiian cultural renaissance -- and we're pretty
3 blessed to have in our community a number of people who
4 are starting to access the Hawaiian language newspapers
5 and really recognize the treasure trove that they
6 represent, not just events of the day but, really,
7 scientific data and environmental data that really help
8 us understand trend and to start to tap that
9 (indiscernible) Aha Moku people here with us today. We
10 have a lifetime of 50, 60, you know, years. So, this
11 extends our knowledge base and the database that you're
12 basing your decisions on, much, much deeper. And
13 you're blessed with a scholar like Dr. Beamer here on
14 the commission who's personally accessed a lot of that
15 (indiscernible) in our community. But, that's just one
16 of the (indiscernible) and really not understanding not
17 only literal meanings but their metaphoric meanings and
18 how metaphors are really capturing environmental data.

19 And so, as we want to look to understand the
20 traditions, customs, and practices and trend, just
21 encourage you to find ways with our team, with Aha Moku
22 and others in our community, to start to access that
23 kind of information. So, as I -- I mean, we have
24 fiduciary duty for all water resource, notwithstanding
25 geography, notwithstanding whether things are

1 designated or not; is that not correct? Getting that?

2 MR. HARDY: Yeah.

3 MR. HANNAHS: And so, your feeling is that
4 the triggers aren't met in this -- in the case of
5 Keauhou, to warrant your -- your practice and process
6 to moving it into the process of water resource --
7 water -- additional water resource permits. But,
8 nonetheless, your view is that we still have an
9 obligation to prudently manage the resource under our
10 current process and systems without designation. And
11 in fact, you're recommending eight specific steps to
12 help us better do that. Am I --

13 MR. HARDY: Yes.

14 MR. HANNAHS: That's correct. So, we don't
15 trigger this -- what would be the difference -- what
16 would -- what additional -- how would we strengthen
17 protection for it to move in -- where it could hit
18 those triggers? What additional things would you be
19 doing that you're not doing now?

20 MR. HARDY: Well, then we would start
21 regulating. It gets into the -- the balance
22 question --

23 MR. HANNAHS: That's a process issue, but
24 what would be the things you'd do to the water? I
25 mean, how would we better -- would we reduce --

1 MR. HARDY: Yeah. Things like that --

2 MR. HANNAHS: -- reduce --

3 MR. HARDY: It would reduce loads, our uses
4 -- commercial, you know, irrigation, golf courses.
5 Things like that might occur if there's not enough to
6 go around to meet the public trust needs.

7 MR. HANNAHS: Got it. And so, you've heard
8 that we don't trigger that, and so -- but we are
9 concerned about the resource?

10 MR. HARDY: Right.

11 MR. HANNAHS: So, we --

12 MR. HARDY: Right. The resources is a public
13 trust, as well --

14 MR. HANNAHS: -- your recommendations. Thank
15 you.

16 MR. BEAMER: Thank you again, Roy. So,
17 building off the questions of Commissioner Buck and
18 Hannahs, looking through this eight criteria -- and the
19 -- the Ka Pa'akai case really requires us, as a
20 commission -- and we have the fiduciary duty, really,
21 to assess, you know, the threat to traditional and
22 customary rights and the impact.

23 Do you feel that we've adequately assessed the
24 existing threats on the management for traditional and
25 customary rights in this aquifer?

1 MR. HARDY: In the past, probably not as well
2 as we should have. But, what we're saying from this
3 point forward is to add those additional reviews and,
4 you know, seeking out the information from traditional
5 and customary practitioners. And it's really a
6 localized thing at this point because it's going to be
7 by well. What are -- you know, that particular area,
8 you know, what were the issues there.

9 MR. BEAMER: So -- and one of those that came
10 up, again, multiple times over the course of years is
11 the spacing issue, right, of wells, and you mentioned
12 Kahaluu Shaft. You don't want too big of a straw. You
13 don't want it too deep --

14 MR. HARDY: Right.

15 MR. BEAMER: -- too powerful, because
16 (indiscernible) saltwater intrusion. And you also
17 mentioned we don't necessarily -- we see that there,
18 but we don't see it across the aquifer right now, which
19 is a sign that overall, healthy aquifer. Seems to be
20 pretty well.

21 These recommendations, does it -- where do we deal
22 with the spacing issue of wells? In these eight
23 criteria, where does that fall?

24 You said if the plan isn't followed or -- is that
25 being adequately addressed is what I'm asking --

1 MR. HARDY: Well, I think -- I believe, in
2 the -- that Phase 2 -- oh, one thing about spacing, no
3 more County wells in the basal, so we don't have to
4 worry as far as the County is concerned, like another
5 Kahaluu Shaft.

6 Private may be different, but at least want to be
7 user -- is it going to go there?

8 For the high-level, I think it's between the
9 Liliuokalani Trust Well and all the way down the
10 Halekii Well that's in Kealakekua.

11 MR. BEAMER: Yes.

12 MR. HARDY: So, that -- that's the southern
13 portion. And you have some existing wells there
14 already that's not being used, like by Kamehameha
15 Schools, a high level that never -- they invested in
16 drilling, discovering that, which probably contributed
17 to the (indiscernible) water. There's a source up
18 there, but they haven't turned on the pump. They don't
19 have pumps in them, but they're monitor wells.

20 But, in terms of the spacing, it's -- I think, as
21 Commissioner Pavao pointed out, we really don't know,
22 and in some of the data I was showing, the Komo and the
23 Doutor Coffee, they're right next to each other.
24 There's two wells, but very different behaviors.

25 So, it's one of those -- you can't really -- you

1 can't really say, hey, you know, you're too close, or
2 it has to be a minimum distance apart, that kind of
3 thing. I think the County has some minimum distances
4 within their system, but we don't. What we are really
5 looking at are things like with the national park and
6 Kohanaiki. Hey, you guys are right next door to each
7 other. You got look. Got to pay more attention.

8 In other areas that aren't designated, when -- and
9 this is just another example of how we look at it. If
10 they're going to put a well in next to a stream, hey,
11 you know, it's a -- be careful here, because you might
12 start impacting that stream, which then you start
13 getting into instream flow standard issues.

14 Sometimes they're able to, based on the hydrology,
15 avoid that, and in the construction standards, there
16 are tests, aquifer tests, pump tests, that help to
17 gather data to establish that connection. If it
18 exists, then there's -- there's more regulation
19 (indiscernible) instream flow standards. And there's
20 been a couple wells where that happened, actually,
21 where the data showed that it was impacting a well -- a
22 stream. And we said, okay. You need to cover for
23 instream flow standard amendment, and then that was the
24 end of that. They didn't move any further from that.

25 But, I guess, that's the way -- we do want to have

1 a minimum distance. It's so localized and it's -- just
2 given the -- given the hydrology of the islands or just
3 hydrology in general, you drill two wells right next to
4 each other, sometimes they exhibit very different
5 behavior.

6 CHAIRPERSON CASE: I'd like to suggest we
7 take a short break, and I think we have further
8 questions later for Roy. We can ask you back. Timing
9 is a little tricky now because we're approaching
10 lunchtime, but we wanted to give the National Park
11 Service a significant amount of time to present, as
12 well.

13 So, let's take a five-minute break and then come
14 back. And I'm pretty sure we won't be doing any public
15 testimony until after lunch.

16 (A recess was taken from 11:47 a.m.
17 to 11:57 a.m.)

18 CHAIRPERSON CASE: Okay. We have a quorum.

19 Next, we're going to have the park service come up
20 and present.

21 Ready when you are.

22 MS. DUCHESNE: Aloha, Chairperson Case and
23 distinguished commissioners. My name is Tammy
24 Duchesne, and I'm the superintendent of
25 Kaloko-Honokohau National Historical Park.

1 We believe that the National Park Service's
2 petition meets several of the criteria and contains all
3 the scientific, policy, and legal information needed to
4 warrant designation now. I urge you to act to protect
5 public trust resources as called for by the
6 Precautionary Principle and vote to continue the
7 designation process by holding a hearing.

8 Kaloko-Honokohau's founding document, the spirit
9 report, was written by prominent Native Hawaiians in
10 1974 and explicitly states the importance of managing
11 the water flow from mauka to makai to preserve public
12 trust resources and uses. Our congressionally mandated
13 enabling legislation from 1978 further states that the
14 National Park Service shall preserve, interpret, and
15 perpetuate Native Hawaiian activities and culture and
16 enter into agreements to protect air and water quality.
17 The 1916 National Park Service Organic Act, like the
18 Precautionary Principle, mandates that the National
19 Park Service be proactive and manage resources and uses
20 so that they are not harmed, rather than waiting for
21 damage to those resources to occur and then trying to
22 mitigate the damage.

23 In order to fulfill the vision of the kupuna,
24 comply with the parks' enabling legislation, and adhere
25 to the National Park Service's Organic Act, we filed a

1 petition in 2013 to seeking protection of these
2 resources and uses.

3 Between 2007 and 2013, the National Park Service
4 engaged stakeholders to find a means other than
5 designating a water management area to protect the
6 freshwater flow that flows through the national park
7 and discharges to the near-shore environment. But, no
8 legally enforceable alternative to manage the placement
9 of wells was offered. Private developers continued to
10 propose, construct, and operate wells near the park,
11 and these well permit applications cannot be legally
12 denied by the commission outside of a water management
13 area.

14 We acknowledge that the petition has been divisive
15 which was never our intention. However, a water
16 management area was the only known tool to ensure the
17 protection of fresh water into the park.

18 Since filing the petition in 2013, we have twice
19 proposed alternatives that would allow existing
20 groundwater withdrawal to continue in the area that
21 contributes fresh water to the national park thereby
22 allowing development to continue throughout the Keauhou
23 Aquifer System. We also filed a petition for
24 declaratory orders to see if an area less than an
25 entire aquifer could be designated. But, these

1 alternatives were denied. We have worked diligently to
2 find adequate alternatives to designation since filing
3 the petition.

4 We commend Mayor Kim and the Department of Water
5 Supply for adopting measures to protect public trust
6 resources and the Water Use and Development Plan. They
7 have done everything within their authority to manage
8 the location of their own wells in the area of the
9 national park. But, private wells can still be
10 constructed within an area that contributes fresh water
11 to the park.

12 Our ultimate goal and mission is the protection of
13 public trust resources and uses, the same as yours.
14 The National Park Service will accept protective
15 measures such as monitoring and legally enforceable
16 triggers in lieu of designation if they are, indeed,
17 able to protect public trust resources and uses in our
18 care. However, the proposed actions and the current
19 staff submittal do not accomplish this goal. Peer
20 review science indicates that public trust resources
21 and uses are threatened and may be harmed if pumping
22 near the National Park Service increases.

23 I urge you to honor the Precautionary Principle
24 and heed your staff's recommendation that there is a
25 need to protect public trust needs and resources of

1 both the park and the larger community in the Keauhou
2 Aquifer System. I request that the commission vote to
3 continue the designation process today in order to
4 properly adopt enforceable triggers that are actually
5 protective of the freshwater dependent public trust
6 resources and uses that our kupuna directed the
7 National Park Service to protect over 40 years ago.
8 Thank you.

9 MS. CUTILLO: I have a short presentation,
10 maybe 25 minutes, and then we also have remarks from
11 two other -- two other representatives of the park
12 service. So, my name is Paula Cutillo, and I'm a
13 groundwater hydrologist for the National Park Service
14 Water Resources Division. I've been working with
15 Kaloko-Honokohau National Historical Park on this issue
16 since about 2005, and during that time, I've worked
17 with different parks in different states. And what I
18 found is that water managers everywhere, they're
19 concerned about sustainability. They want to know how
20 much groundwater they can pump without causing
21 unacceptable impacts. And most often, they rely on the
22 rate that --

23 CHAIRPERSON CASE: I just want to get --

24 MS. CUTILLO: Okay. And most often, why
25 managers rely on the rate that recharge -- or that

1 rainfall recharges in aquifers to guide these limits on
2 pumping. But, pumping wells capture and reduce
3 discharge from the aquifer, and this causes impacts
4 like saltwater intrusion and depletion of springs and
5 streams. Therefore, to protect springs and streams and
6 parks, the NPS must proactively ask water managers to
7 also explicitly consider where and how much discharge
8 is lost before they permit new pumping wells.

9 This thermal infrared image shows the discharge
10 that we are asking you to preserve and protect in
11 Kaloko-Honokohau. It shows cooler, fresher water in
12 blue and warmer, more saline water in red. Fresh water
13 mixes with salt water and discharges the fishponds,
14 wetlands, anchialine pools, and submarine seeps in the
15 park. This discharge creates estuary-like conditions
16 that provide nursery habitat for culturally important
17 fish, anchialine pool shrimp and an endangered
18 damselfly, optimal conditions for limu, and breeding
19 habitat for endangered waterbirds.

20 We're asking you to preserve and protect this
21 groundwater discharge because it is essential to the
22 mission of the park and because it supports public
23 trust uses of water within the park.

24 More specifically, we provided information that
25 shows that salinity in the park is at the limits of

1 survivability for the native striped mullet, the
2 endangered orange-black Hawaiian damselfly, the
3 endangered Hawaiian stilt, and the endangered Hawaiian
4 coot. There is no scientific evidence that these
5 species can complete their full lifecycles with half of
6 the water that they have now.

7 As Roy summarized, there -- this issue did start
8 with -- for -- a while before we filed the petition,
9 and we worked for many years to find ways to protect
10 existing flows through the environmental review and
11 well permitting processes, and through working groups
12 and roundtables. This timeline shows Hualalai Users
13 group actually formed in the early '90s, and in the
14 late '90s, the National Park Service funded the USGS to
15 develop a groundwater flow model. We continued to fund
16 monitoring and research activities and formed a working
17 group around 2008. The Kona Water Roundtable formed
18 about the same time, and a Water Professionals Group
19 also met with CWRM staff several times.

20 But, wells continued to be proposed, constructed,
21 and operated in close proximity to the park, in the
22 basal and high-level aquifers. As a result, about
23 three and a half years ago, we filed -- we asked you to
24 consider designating the Keauhou Aquifer a water
25 management area.

1 We hope you reviewed the petition and the
2 additional information requested by the commission.
3 The additional information includes corrections to the
4 preliminary findings of fact and two reports submitted
5 in response to the commission's preliminary order, one
6 on traditional and customary practices in the park and
7 then another report on how much groundwater is needed
8 to keep cultural and natural resources healthy.

9 Today, you can deny our petition or decide to hold
10 a public hearing on the matter. We agree with staff
11 that protective measures are needed if you deny the
12 petition. In our opinion, the actions recommended in
13 staff submittal will not preserve discharge and protect
14 public trust resources in the park. Therefore, I would
15 like to discuss four measures that you could adopt in
16 lieu of designation that would preserve and protect
17 public trust resources.

18 These measures include two changes to the well
19 permitting process and two triggers for management
20 action. The changes to the permitting process will
21 empower your staff to explicitly consider where and how
22 much discharge is lost before they permit new wells,
23 and identifying where discharge may be lost is a
24 critical step.

25 This image shows the impacts of pumping in a

1 coastal aquifer. All of the pumping from the wells is
2 balanced by a loss of water somewhere. Ultimately, a
3 well like this pumping 1 million gallons per day will
4 reduce discharge from springs and seeps by 1 million
5 gallons per day at the coast.

6 Doesn't matter if pumping aquifer wide is 10
7 percent of the sustainable yield or 90 percent of the
8 sustainable yield or if recharge is 50 millions gallons
9 per day or 100 million gallons per day. This well will
10 reduce discharge by 1 million gallons per day in this
11 coastal area. And this is where the park is located.
12 It's located in the area where discharge from springs
13 and seeps can be reduced.

14 So, the first measure we're proposing asks an
15 applicant to explicitly consider whether reduced
16 discharge will impact traditional and customary
17 practices, fish and wildlife, and the rights of DHHL.
18 These questions are on the water use permit application
19 in designated areas, but they're not on the well
20 construction and pump installation permit application.

21 I'm actually doing something similar right now for
22 parks in Colorado and Oregon. We want to permit water
23 supply wells in the parks with these states, and the
24 states are asking us to consider where and how much
25 streamflow will be depleted. Permitting these wells is

1 very difficult because these states have already
2 overallocated water in these basins. In Oregon, it's
3 the Klamath Basin, and they said, hey, it's not going
4 to get any easier. Waiting won't make it any easier
5 than it is right now. And I think that's true here,
6 too.

7 Another change you could adopt is to give the
8 public an opportunity to present their concerns about
9 traditional and customary practices and fish and
10 wildlife before a well is permitted. Outside of water
11 management areas, there is no requirement that wells be
12 given public notice before they're permitted.

13 This is a diagram of the well construction and
14 pump installation permit process. It indicates that
15 staff receive public comment before a permit is issued,
16 but that doesn't always happen. Some wells are
17 permitted before they appear in the bulletin. For
18 example, the Palani Ranch Deepwell is located -- the
19 Palani Ranch Deepwell is located directly upgradient of
20 the park. And this map shows wells in the area of the
21 park.

22 Commission staff confirmed that a well for the
23 Palani Well -- I'm sorry, the permit for the Palani
24 Well was issued in 2006. This was three years before
25 an environmental assessment was completed and five

1 years before it appeared in the monthly bulletin.

2 Requiring applications to be noticed for a
3 specified period of time, like 60 days, before issuing
4 a permit would give the public proper due process, the
5 opportunity to present their concerns to you before a
6 decision is made.

7 So, the two measures I just described will give
8 you more information from the applicant and more
9 information from the public. So, let's say you receive
10 information that indicates a well is too close to
11 habitat that supports traditional and customary
12 practices or endangered species.

13 At this point, what can you do?

14 Staff has stated that a well permit cannot be
15 legally denied for a properly constructed well outside
16 of a water management area. There are two more
17 measures that you can adopt to preserve discharge and
18 protect public trust resources under these
19 circumstances. They include monitoring with triggers
20 for management action. A pumping-based trigger can
21 help manage how pumping is distributed, and a
22 salinity-based trigger can help you minimize saltwater
23 intrusion.

24 A pumping-based trigger involves identifying an
25 area within which a pumping well will capture and

1 reduce discharge to the resources you want to protect.
2 For example, this figure shows that the delineated
3 capture zones for Oahu's groundwater sources. To
4 protect water-supply wells, the Department of Health
5 uses numerical models to identify areas that contribute
6 groundwater to a well over time, or capture zones. So,
7 numerical models are good tools for identifying areas
8 that may be impacted by a pumping well.

9 We asked the USGS to use their new numerical model
10 to identify the area within which a well will capture
11 and reduce discharge in the park. So, this slide
12 (indicating) shows the model domain of the new model.

13 And you could adopt a measure that would trigger
14 designation if pumping exceeds the current rate within
15 the area that contributes water to the park. And this
16 area could be described in terms of ahupuaa boundaries
17 or other administrative boundary.

18 The last measure is a salinity-based trigger. For
19 example, when chlorides exceed the maximum limit for
20 drinking water in the Kahaluu Shaft, the Department of
21 Water Supply can issue public health warnings, and they
22 can reduce the pumping rate. But, no such management
23 triggers exist for non-consumptive public trust uses.

24 This (indicating) is chloride in the Kahaluu Shaft
25 again, this chart, but the scale is now from 0 to 100

1 percent seawater.

2 And this (indicating) is salinity in two
3 observation wells. One well at the top is on the
4 boundary between the park and the golf course, and the
5 other one is salinity in an observation well a little
6 further north near seawater disposal trenches. The
7 rise in salinity in these two wells is much greater
8 than what is occurring at the Kahaluu Shaft. The
9 changes are also greater than the decline in salinity
10 in two wells in the park. So, this (indicating) is
11 continuous data from two wells in the park.

12 As staff indicated, salinity appears to be
13 declining in these wells due to irrigation return
14 flows, but there are no triggers for managing or
15 mitigating these impacts. We proposed a measure that
16 would trigger designation if salinity continues to
17 increase on two deep observation wells in the area of
18 the park. One is MW401. That's the well at the top
19 here (indicating) shown in green, and the other is the
20 Kamakana Well. And the NPS would consider purchasing
21 two transducers to implement this measure. The
22 measures we're recommending allow you and your staff to
23 hear from the public about changes in discharge that
24 they think are acceptable.

25 According to the USGS, the amount of groundwater

1 that is available for development is determined by the
2 degree to which impacts like saltwater intrusion and
3 the depletion of springs and seeps and wetlands, the
4 degree to which impacts to these resources are deemed
5 acceptable. Therefore, this feedback from the public
6 is critical. We've determined that further reductions
7 in discharge are not acceptable in the park.

8 So, to summarize, we're asking you to preserve and
9 protect existing discharge in the park like an instream
10 flow for groundwater. Designation provides a
11 management tool for you to do this, and we believe
12 there is sufficient information to continue the process
13 at this time.

14 Instead of designation, though, you can deny --
15 you can change the well permitting process to
16 explicitly consider how reductions in discharge affect
17 public trust resources. You can provide due process
18 for the public, and you can adopt effective
19 pumping-based and salinity-based triggers for
20 management action. We propose these measures. We
21 propose measures such as these to staff, and we hope
22 that you consider them today.

23 That's the end of my prepared remarks, but I also
24 have a few slides with information that was not
25 included in the staff submittal. So, I think there are

1 several inaccuracies in the staff submittal, but I'm
2 just going to focus on some data that I think will help
3 inform your decision today.

4 I'd like to clarify that the National Park Service
5 measures salinity, temperature, and groundwater levels
6 every ten minutes at four sites in the park. These
7 data are available on a public website, and we've
8 provided this link and the data itself to staff
9 multiple times.

10 These (indicating) are water level data and
11 salinity data from two wells near Kaloko Fishpond, and
12 a link to the data is on the slide.

13 And these (indicating) are data from a well and
14 piezometer in the area of Aimakapa Fishpond. And for
15 some reason, these full records were not incorporated
16 into the staff submittal. The staff submittal also
17 states that no data between 1996 and 2009 have been
18 produced from the wells in the park, but the continuous
19 data do start in 2007. And periodic salinity
20 measurements have been collected since the wells were
21 installed in 1996. This chart (indicating) shows
22 periodic data collected from various studies and
23 researchers over time. A table with links to these
24 data were sent to staff on three occasions.

25 The staff submittal also states that observation

1 wells on the golf course show little to no increases in
2 chlorides. Simple linear trend indicates that
3 chlorides appear to be increasing in at least two of
4 the wells on the golf course, and these changes are
5 greater than what was -- what has been observed at the
6 Kahaluu Shaft.

7 So, commission staff have required golf course to
8 collect monthly conductivity profiles in MW401 as a
9 condition of the pump installation permits. And
10 conductivity -- so, this (indicating) is -- the data at
11 the top, that's from the conductivity profiles, and the
12 two data sets closer to the bottom are monthly chloride
13 data. And conductivity appears to be increasing in the
14 -- in MW401, and these increases in specific
15 conductivity and chloride, they are indications of
16 saltwater intrusion, so I think it's important to
17 acknowledge them.

18 And we also understand that there are data quality
19 issues with the monthly chloride and conductivity data.
20 We've asked staff multiple times to address these
21 issues, but the problems persist. And this is
22 unfortunate, because a lot of time and money are spent
23 to collect these data, and I think everyone would agree
24 that if we're going to rely on monitoring to protect
25 public trust resources, then the data should be

1 reliable and actionable.

2 What we have found -- on this chart (indicating)
3 compares monthly chloride data from one of the wells on
4 the boundary to the continuous data that's being
5 collected in the park. And what we found is that
6 continuous data from fixed transducers are more
7 reliable in this tidally-influenced setting. They can
8 reduce error and uncertainty.

9 So, in closing, I'd like to thank you very much
10 for your time and attention to this matter, and I hope
11 this information will help you form your decision
12 today. I can take questions now, or if you would like
13 to wait for the rest of our testimony --

14 CHAIRPERSON CASE: Let's wait for the rest of
15 your testimony.

16 MS. CUTILLO: Okay.

17 CHAIRPERSON CASE: Hit the lights back up,
18 please.

19 MR. FAHMY: Good afternoon, commission
20 members and Chairperson Case. My name is Peter Fahmy.
21 I'm a policy analyst and also served as a legal counsel
22 for the National Park Service's Water Resources
23 Division. Like Paula and like everyone else in park
24 service, we very much appreciate the time and effort
25 that the commission has spent in considering the

1 petition that was filed by the National Park Service.

2 As has been mentioned earlier, the National Park
3 Service is not fixated on obtaining designation of the
4 Keauhou Aquifer as a water management area. Since
5 first raising its concerns regarding the potential
6 effects of groundwater withdrawals on public trust uses
7 and resources at Kaloko-Honokohau National Historical
8 Park, the National Park Service has first and foremost
9 been focused on seeking substantive and enforceable
10 protections for those uses and resources. This
11 commitment was exemplified by the filing of a petition
12 for declaratory order in March of 2015 wherein the
13 National Park Service sought to focus the commission's
14 attention on a smaller area of special concern adjacent
15 to the park.

16 The National Park Service believes that it is
17 vital that the commission understand that an essential
18 element of all the National Park Service's efforts to
19 protect the public trust uses and resources is that
20 there be a legally recognized basis for the management
21 action that is being sought to be implemented by the
22 commission. Without such assurance, the protective
23 effect of any commission action would undoubtedly be
24 immediately suspect.

25 It is on that basis that the National Park Service

1 believes that the -- the proposed actions contained in
2 the staff submittal, the eight actions that were
3 presented by your -- your staff, would not provide
4 enforceable protection for the park's public trust uses
5 and resources. In particular, the National Park
6 Service is concerned about one of the proposed actions
7 contained in the staff submittal. The proposed action
8 -- one of the proposed actions that was focused on was
9 a procedure for evaluating well construction permits
10 outside a water management area in which an application
11 for a well construction permit had been made.

12 Now, it was suggested that if there could not be
13 some sort of agreement with regards to conditions on --
14 protective conditions, essentially, for that well
15 construction permit application, that the matter would
16 simply be referred to the commission. The National
17 Park Service's interpretation of Hawaii Revised Statute
18 174-84 is that, that review can only occur after
19 there's been an actual denial of an application for a
20 well construction permit; that it -- that the legal
21 basis for such a review really is in the hands of the
22 applicant; that it's the applicant that can ask for,
23 essentially, a -- well, it's essentially an appeal of
24 the denial and having that denial being reviewed by the
25 commission.

1 So, we're concerned that under the proposed
2 action, there might be, essentially, a denial of a
3 permit application on the basis of some unarticulated
4 public trust considerations that would almost certainly
5 be found to be legally defective in the absence of
6 properly conducted rulemaking. There -- as you know
7 from the standards that are applied to well
8 construction permits and pump installation permits,
9 there are standards that are the results of rulemaking,
10 rules that this commission has imposed with regards to
11 well construction, to pump installation. But, those
12 standards, as I said earlier, were adopted through
13 rulemaking. They gave notice to a potential applicant
14 for a well construction permit, for a pump installation
15 permit, as to how that application would be judged.

16 What we suggest is that what's being proposed is
17 being proposed without ruling. Now, I certainly
18 believe -- park service believes that this proposed
19 action that would incorporate the consideration of
20 traditional and customary practices, the effects of --
21 on public trust resources and uses, could be
22 incorporated into your well construction permitting and
23 pump installation issuance procedures. But, we think
24 that for it to be done right, for it not to be
25 susceptible to legal challenge, and for it to be,

1 essentially, enforceable and have the effect that, I
2 believe, the staff has suggested it should have, that
3 you would have to go through rulemaking.

4 So, we just want to get it on the record that what
5 we're concerned about -- and we think staff is moving
6 in the right direction with regards to incorporating
7 these concerns (indiscernible) raised by the petition
8 is that it be done in a way that is enforceable, that
9 is defensible, that will survive legal challenge if
10 such occurs.

11 So, in light of the requirement that, you know,
12 any management actions that the commission takes to be
13 legally sound, the National Park Service believes that
14 the commission should conduct a hearing, okay, because
15 as we suggested in Dr. Cutillo's remarks, we believe
16 that the most effective way to protect traditional and
17 customary practices, to protect public trust uses and
18 resources, is the adoption of a trigger.

19 There's (indiscernible) for having a trigger. It
20 was done in the case of Iao, okay, where this
21 commission essentially adopted a trigger that
22 eventually led to designation. That's a truly
23 protective measure that this commission could adopt.
24 But, it has to be done in a way that establishes a
25 proper administrative record. And that gives the

1 petitioner, interested parties, and the general public
2 the required due process. Moreover, such an action by
3 the commission would provide the commission the
4 opportunity to assess whether such an approach would
5 effectively discharge the commission's obligation to
6 act in accordance with the Precautionary Principle.
7 Only through this process can the commission address
8 the staff submittal's recognition in the submittal
9 where the staff stated that there was a need to protect
10 public trust needs and resources in both the park and
11 the larger community in the aquifer.

12 I want to thank you all for your time and
13 attention, and I look toward to answering any questions
14 you might have with regards to (indiscernible).

15 MR. SCHEUER: Aloha mai kakou. For the
16 record, my name is Jonathan Likeke Scheuer. I have
17 been retained as a consultant to the National Park
18 Service on this issue since 2011.

19 I want to start off just by thanking you for your
20 service. In other hats, I've sat for (indiscernible)
21 on the Oahu Island Burial Council. I know that seems
22 -- means to serve as a volunteer on these boards and
23 commissions and the duties that you, sort of, take up
24 of weighing law and facts and the emotions of issues.
25 So, I personally really appreciate it, and I just want

1 to share thoughts and observations I have, just about
2 two things, about the submittal and about where we are
3 in the process that hopefully might be of use to you as
4 you consider what to do today.

5 And really, I think -- I mean, the good news is
6 we're close. I mean, we're not just close to lunchtime
7 -- we're almost done with our presentations -- but I
8 think we're actually really close to what, through this
9 difficult ten-year process, we've been trying to do,
10 which is can we find a way to protect these resources,
11 and what people have made very clear, can we do so with
12 avoiding designation? I don't think we're there with
13 the staff submittal, but I think we're really close.
14 And the reasons for that -- and I'll share those
15 observations now.

16 The first thing -- category thing about the staff
17 submittal is that while it's really good -- and I
18 really aloha Roy for the efforts that he's put into it,
19 and I particularly appreciate Jeff Pearson getting that
20 submittal to us two weeks in advance so we had a chance
21 to look at it -- it really doesn't reflect the whole
22 record, this ten-year record of effort, this three
23 years since we filed the petition. So, it's really
24 important when you sit here as commissioners, what is
25 the record that you're making your decision on, what

1 are you basing your decision on.

2 The submittal references findings of fact which
3 were issued then pulled. What's missing in the record
4 and the submittal is that in response to a direct
5 minute order from the commission, the park services
6 turned in 38 pages of errata to those findings of fact
7 by January 31st of 2015. Those can't be found on your
8 web site. Those can't be found referenced in the
9 submittal.

10 And what's important is some of the issues that we
11 believe we had corrected on the record are now repeated
12 in the staff submittal. For instance, we've also
13 turned in a report on traditional and customary
14 practices, and when we delivered that report to you, we
15 also made it clear that we thought that the commission
16 had an affirmative duty to look at traditional and
17 customary practices and the impacts of water
18 withdrawal, not just within the boundaries of the
19 national park but everywhere in coastal portions of
20 Keauhou Aquifer. The submittal only addressed the
21 exercise of traditional and customary practices within
22 the park's boundaries. It doesn't address at all T&C
23 practices outside of the park's boundaries.

24 And it also, in some ways -- you know, I
25 appreciate that Roy drew a distinction in the salinity

1 tolerances between damselflies, which will truly not
2 survive if the water gets saltier, versus mullet, which
3 have an optimal thriving, and limu that have an optimal
4 thriving at a certain band of salinity. But, to say
5 that we're only going to focus on the damselflies and
6 not those because it's not like a critical point misses
7 the point of we want harvestable quantities of these
8 fish and limu. We don't want to just have mullet to
9 look at. We want to have mullet to share, harvest,
10 eat.

11 We also -- and Superintendent Duchesne and
12 Dr. Cutillo have mentioned we submitted twice full
13 offers of what we believe are conditions that could be
14 put into place in lieu of designation, instead of
15 designation, avoiding designation, to the commission
16 staff. And we find it very regrettable that those
17 aren't presented to you as alternatives within the
18 staff submittal.

19 I also just want to observe that -- so there's
20 issues with the completeness of the staff submittal and
21 what's the record you're choosing to vote on today, but
22 also, what are the standards that are implicit in the
23 staff submittal? The standards seem to be shifting.
24 In your December 2014 order, one of the reasons why you
25 justified -- and I realize some of you were not on the

1 commission at that time, but one of the reasons why the
2 commission justified extending the process was they
3 said, hey, there's going to be this key U.S.
4 Geological Survey study that's going to really -- an
5 enhanced model that will really identify the capture
6 zone for the national park. It was strong enough to
7 justify delaying decisionmaking in 2014, but now
8 there's just a note in the staff submittal that says,
9 well, we're going to get the report in six months, and
10 we'll report to you on it rather than we're going to
11 actually have that factual basis in hand before we make
12 a decision.

13 I'd also just like to note that, you know -- and
14 again, Roy, who did, in many ways, just a really great
15 job of a tough assignment, he talked about the National
16 Park Service submitted peer-reviewed scientific
17 research showing that this damselfly is right at the
18 cusp of its ability to survive, and it's now a listed
19 endangered species. And then, there's a memorandum
20 from a DAR staff member, and that was presented as,
21 well, there's conflicting scientific opinion. I just
22 want to draw out for you, I think there's an important
23 difference between peer-reviewed scientific research
24 and a memorandum that somebody was asked to draw up on
25 what they personally think about the issue. And those

1 things are not captured in the submittal.

2 Now, this ties into, I think, where we are
3 procedurally. As, I believe, many of you know, if not
4 all of you know, this -- if you voted to deny today,
5 this would not be the first time the water commission
6 has voted to deny a petition. In fact, it was done
7 three times in Iao. In 1986, actually, not even by the
8 commission. The previous groundwater control statute
9 had a designation process, and the State Department of
10 Land and Natural Resources tried to designate the Iao
11 Aquifer in 1986. It was controversial. They stopped.
12 Then under the Water Code both in 1996 and 2002, the
13 commission voted to deny a designation of the Iao
14 Aquifer. But, all three of those times, as is being
15 suggested here, in lieu, instead, of designation, the
16 commission put in conditions. This also happened on
17 the island of Lanai in 1990.

18 The difference is in all four of those cases, you
19 held a public hearing first, before putting conditions
20 on. So, you didn't stop at this part of the process.
21 A recommendation was made to go to a public hearing
22 process. Public notice was put out in the papers. A
23 public hearing was held, and findings of fact were
24 generated.

25 So, that did a couple things. First of all, it

1 made it really clear. When you guys chose to deny,
2 when the commission chose to deny those other
3 petitions, what was the factual basis? Did you
4 consider the full record in choosing to deny? And by
5 putting out going through the public hearing process --
6 and I really heard Commissioner Pavao's concerns, do we
7 have the authority to do it? When you go through a
8 public hearing, you put out notices in the paper. The
9 legal standard had been met that anybody with a
10 property interest in that area has been notified that
11 their rights might be affected, and so, you actually
12 have the chance to put in binding conditions.

13 Trying to put in conditions at this stage of the
14 process, before going to a public hearing, doesn't
15 allow you that coverage of having fully notified
16 everybody that their rights might be affected and the
17 ability to deny based on a findings of fact that is a
18 very clear expression of the record.

19 The last point I'll add -- and, you know, I spent,
20 actually, quite a long time looking through all of your
21 previous records on designation attempts. As
22 controversial as this is, this is not the first time
23 designation has been controversial. This is not the
24 first time people have feared about what the effects
25 would be on how their area feared State control. And

1 the commission has, particularly in the 2001 attempt to
2 designate the Iao Aquifer -- they did not continue the
3 process to the hearing stage because they
4 (indiscernible) definitely going to designate. They
5 continued the process to the hearing stage because they
6 wanted to convey to all the parties we believe this
7 issue is serious. We believe this issue is serious
8 enough that we're going to continue this process so
9 that we can either go to designation or get some
10 alternatives in place.

11 Thank you very much. I'd be very happy to answer
12 any questions.

13 CHAIRPERSON CASE: Thank you.

14 Commissioners, questions.

15 MR. SCHEUER: Or for Dr. Cutillo or
16 Ms. Duchesne.

17 CHAIRPERSON CASE: All four would like to
18 come up. We can just see.

19 MR. BEAMER: So, I do have a couple of
20 questions to get us started.

21 Dr. --

22 DR. CUTILLO: Cutillo.

23 MR. BEAMER: Cutillo. I'm sorry. My
24 language skills are less than perfect sometimes.
25 Excuse me. But, you showed us these updated graphs,

1 and you submitted just some conflicted science. Some
2 things that were in our staff submittal weren't
3 necessarily accurate. I'm not sure I understood,
4 though, your analysis of these graphs and exactly what
5 they're telling us.

6 Can you just expand on that a little bit?

7 DR. CUTILLO: Sure. The first two slides
8 that I showed were just to complete the record. These
9 are continuous data from two wells in the park,
10 salinity and water level data. And they start in 2007
11 and continue to present. The most recent data we've
12 downloaded and had -- had approved by the USGS goes to
13 September 2016. So, I just wanted -- there were big
14 data gaps in the data presented in the staff submittal.
15 I just wanted to show that we actually have a lot more
16 data than that.

17 And these are same thing, continuous data but from
18 two newer sites. We were monitoring water levels at a
19 well near Aimakapa since 2009. But, more recently, we
20 started continuous conductivity data there and also at
21 a piezometer, which is a small diameter well, that is
22 located in Aimakapa Fishpond. And these slides also
23 provide the link to the data, so this data can be
24 accessed by the public and downloaded by anybody.

25 These data -- I'm not sure how helpful they are,

1 but the reason I presented them is because the staff
2 submittal noted that there were no periodic data or no
3 data from the wells between 1996, when they were
4 installed, and, I think, 2009. And so, what I wanted
5 to show is that people over time have collected data
6 from these wells, and these data were consolidated into
7 a table with links to the data given to all
8 stakeholders, including the commission staff, on
9 several occasions.

10 I think they're hard to get linear long-term
11 trends from these data because they're reflected by
12 different people, different methods over time. But,
13 this is a visual summary of that data, but I would
14 hesitate to use it to identify long-term trends.

15 And this (indicating) was -- this is a chart.
16 This chart shows the -- data from the Kahaluu Shaft at
17 the bottom. That's for reference. We know the
18 chlorides are increasing there, and it has initiated
19 some management actions. But, the increase is very
20 small compared to the changes that have been observed
21 in wells in the area of the park.

22 These (indicating) data are from two wells on the
23 boundary. The dataset at the top is from MW401. It's
24 the deeper observation well that, Roy mentioned, was
25 required to be installed as a permit condition for the

1 golf course. So, the idea -- the commission staff said
2 we want you to put in a deep well so we can monitor the
3 change in the thickness of the freshwater lens or see
4 if salt water is rising in the well. So, this was a
5 really important well that the golf course, the
6 applicant, complied. And then, as a permit -- as a
7 condition of the permit, staff said you should -- you
8 need to collect conductivity profiles in this well,
9 measure salinity from top to bottom on a monthly basis.
10 So, that data are collected monthly. They are given to
11 the commission staff.

12 But, these profiles were completely ignored in the
13 staff submittal, and so, I wanted to show them, because
14 there's the -- what I did was extract maximum salinity
15 from those profiles over time, and there are two
16 trends. There's a break when they switch to a new
17 logger. So, it's not clear why salinity would change
18 with a new instrument, but regardless, salinity
19 conductivity -- there's an increasing trend at the
20 bottom of the well. And those changes are greater than
21 the changes that were identified in the staff submittal
22 and prior, as well.

23 So, salinity might be getting fresher. Shallow
24 levels in the park. Those changes are important. We
25 should -- we will continue to investigate why that's

1 occurring. But, when there are greater changes in the
2 other direction, I -- you know, just want to make sure
3 that everybody has all the data.

4 So, the other two datasets are monthly chloride,
5 and they kind of represent conditions -- shallower
6 conditions in that deep well and then another shallow
7 well near the coast. And so, these are data that are
8 reported to (indiscernible) commission.

9 And this (indicating) slide -- purpose of this is
10 just to show that we have continuous data. And there
11 is a fluctuation in salinity in two -- these two wells
12 near Kaloko Fishpond in the park, and these
13 fluctuations are due mostly to the tide. So, you can
14 see there's some fluctuation from the ocean tide, and
15 then there's also long-term trend. In at least one of
16 these wells, salinity appears to be declining. So,
17 when you have continuous data, you can separate what is
18 caused by the tide, changes in fluctuations caused by
19 the ocean tide, from longer trends. And so, that's why
20 I think these data are more reliable. They reduce
21 uncertainty.

22 And if you compare it to chloride, monthly
23 chloride, from a well on the boundary -- this is MW400
24 -- there's much more variability, higher variance, and
25 that is a result -- in part, it's due to the way the

1 data are collected. It's the sample methodology. It's
2 only as accurate to the nearest 500 milligrams per
3 liter. So, you're going to get a lot more variance,
4 and it's going to -- it's only monthly. Frequency is
5 less, and so, it's a lot harder to identify long-term
6 trends when you're collecting data like that on a
7 monthly basis. So, that was -- the point of the slide
8 was to encourage fixed transducers as a monitoring --
9 as a way to monitor salinity changes.

10 MR. BEAMER: Okay.

11 MR. BUCK: I have a couple. Just -- you talk
12 about some specific recommendations. You talk about
13 the, you know, discharge, evaluating discharge.

14 Is there a one to one, you said --

15 DR. CUTILLO: Yeah --

16 MR. BUCK: -- so that would be any -- a
17 million gallons taken from anything would end up with a
18 million gallons of less discharge --

19 DR. CUTILLO: Yes --

20 MR. BUCK: -- and measure -- how would you
21 actually measure that? because there's so many points
22 (indiscernible) discharge.

23 DR. CUTILLO: So, yes. Ultimately, when you
24 take water -- when you pump water from a well, that has
25 to be balanced by a loss of water somewhere else. And

1 mass balance requires that the loss is either from
2 storage or -- from aquifer storage or from discharge or
3 a combination of both. Over the long term, it's one to
4 one with discharge, so that that's true with streams.
5 And here, where diffuse -- where discharge --
6 groundwater discharge is not just the streams but
7 springs and seeps. So, it is one to one.

8 It is hard to monitor or identify, so what I was
9 encouraging is that the applicant first acknowledge
10 that there will be this loss in discharge somewhere and
11 then identify the area where it might occur. So, we
12 don't have the tools to say it will -- precisely what
13 spring or what pool, but you could identify the area.
14 For example, would it -- would that area intersect with
15 the park or another resource that you're trying to
16 protect?

17 MR. BUCK: But, knowing that points of
18 diffusion and discharge are varied, it would really be
19 hard to correlate exactly. That would be an estimate.

20 DR. CUTILLO: But, depends on how far away
21 the park is -- the well is from the resource. So, if
22 it's close, it would be easier. If it's farther away,
23 there would be more uncertainty. So, we're talking
24 general areas, maybe ahupuaa.

25 MR. BUCK: Okay. Then, I heard you talk

1 about pumpage models that you would recommend that we
2 might use before approval of any well construction.

3 What's the reliability of those models? What's
4 the standard deviation? Or just give us some idea.

5 DR. CUTILLO: So, the models are good tools
6 for identifying the area that may be impacted by a
7 well. So, I wasn't suggesting (indiscernible) you have
8 a new well but that the models be used to identify
9 areas that contribute fresh water to the areas you want
10 to protect.

11 MR. BUCK: And I'm just curious. Has there
12 been any data feedback about the standard deviation and
13 reliability of the models? And the models are
14 representations (indiscernible) measurement.

15 DR. CUTILLO: Well, so the example I used --
16 the Department of Health uses numeric models to guide
17 their policy decision -- decisionmaking. The USGS
18 model that -- it's actually completed. It was
19 presented not -- over a year ago at a sustainability
20 conference.

21 Right now, they're just working on scenarios,
22 things that we asked them to do with the model before
23 they write up their report. And that model is
24 calibrated to field data.

25 So, the progress that that model represents is

1 that the salinity profile and temperature profile from
2 the Kamakana Well -- it's the deepest well in this
3 area. It -- so it's really good field data. And what
4 Delwyn Oki was able to do is construct a model that is
5 calibrated to that data. So, he could move -- he could
6 reproduce the salinity and temperature profile that's
7 found in that well.

8 And so, that's -- one of the best ways to using
9 the numeric model is to confirm or reject what your
10 conceptual model of the aquifer system is. So, by
11 matching the profile, what he was able to do is say to
12 produce this profile, to reproduce these conditions,
13 you -- water from a high-level aquifer has to -- he set
14 it up to have a deep confined aquifer, but that water
15 has to leak back up into the basal aquifer to create
16 and reproduce that salinity profile.

17 So, to answer your question, I think that if you
18 can satisfactorily reproduce conditions that you're
19 observing in the field, then you have a higher degree
20 of confidence in projections that you use that model to
21 make.

22 MR. BUCK: Okay. One more. And then, you
23 offered transducers, to put in permanent transducers,
24 to better monitor the salinity.

25 Is that contingent on -- you said if the area was

1 designated.

2 Is that also --

3 DR. CUTILLO: Oh --

4 MR. BUCK: -- contingent on being --

5 DR. CUTILLO: Oh, you know what? No. I'll
6 reclarify. I said we would consider buying those
7 transducers to implement the salinity trigger, and it
8 would be in lieu of designation. It would be a measure
9 that you would set up, you know, as a management
10 trigger based on monitoring data.

11 And the only reason I can't commit is just with
12 budgets and -- continue resolution, and so, we would
13 just -- we would sit down and talk about it, and -- but
14 we would -- we have set money aside, and we would be
15 willing to help implement that measure by purchasing
16 transducers.

17 MR. BUCK: Great. Thanks for that offer.

18 DR. CUTILLO: Okay.

19 MR. PAVAO: I have two comments. When you're
20 talking about the million gallons going out means a
21 loss of a million gallons on the coast -- and
22 Commissioner Buck made the comment, yeah, but it's
23 spread, and you agreed. But, in your speech, you made
24 it seem that you would lose a million gallons
25 specifically at the park. So, it seems like you're

1 using general occurrences to specific areas, which
2 really is not fair.

3 The other concern I have, you also talk about the
4 Kahaluu Shaft and the chlorides. I'm just kind of
5 curious as to what science are you using to say that
6 the chlorides at the shaft will affect the park when
7 the park is over 10 miles away from the shaft.

8 How can that be?

9 The shaft elevation is at 600 feet. Any effect
10 would be in Keauhou Bay, at the hotel areas.

11 How can you distinguish -- or how can you testify
12 some sort of science that says from 10 miles away, it's
13 going to affect your park?

14 I don't understand that.

15 DR. CUTILLO: Okay. So, the question was
16 will -- well, I agree with you, Commissioner Pavao.
17 The pumping --

18 MR. PAVAO: You agree with me. Why do you
19 keep commenting on it?

20 CHAIRPERSON CASE: Wait, wait.

21 DR. CUTILLO: Well, I can clarify. I use the
22 Kahaluu Shaft data, like on this graph, to give some
23 perspective on the changes that we're seeing in the
24 aquifer. I was not implying that pumping at the
25 Kahaluu Shaft is directly affecting the park. I don't

1 -- I don't agree with that. I agree with you. Pumping
2 at the Kahaluu Shaft does not affect resources in the
3 park. It's being used as an example of impacts of
4 pumping a coastal aquifer.

5 MR. PAVAO: You said it.

6 CHAIRPERSON CASE: She --

7 MR. PAVAO: Yeah. You said that. I
8 distinctly heard you say that what's happening in the
9 shaft affects the park, and that's not true. That's
10 not true at all. And you just admitted it.

11 DR. CUTILLO: I respectfully disagree. I did
12 not make that statement. And perhaps, we could have
13 the record read.

14 CHAIRPERSON CASE: I think we're okay. She
15 said she agrees with you. So, you know --

16 MR. HANNAHS: What I heard it was an example
17 of when you monitor, you have data. You can -- that
18 can then become a trigger for action, just as the
19 Kahaluu data triggered action with respect to
20 (indiscernible). You're proposing a trigger for action
21 of similar type of data, you know, for nonconsumptive
22 uses --

23 DR. CUTILLO: Yes.

24 MR. HANNAHS: -- in your condition. So, I
25 think that's -- over time, I think (indiscernible) get

1 on the same page there.

2 I appreciate that over the -- though frustrated or
3 the relationship and some of the encounters between the
4 park and the commission has not been to your liking in
5 the past, you've stuck with it, and we're that close.
6 And with your four, you know, proposals added to the
7 other recommendations of our staff, some of which, I
8 think you know, we believe are effective or not
9 effective, but with that total package, you would
10 achieve some measure of protection for traditional and
11 customary practices and rights and so forth there and
12 that this issue, at least for the moment, is addressed
13 until we see that it isn't. And then, I guess, we'll
14 all be back here when that unfortunate day occurs.

15 Environmental conditions are certainly critical to
16 the practice of these traditions and customs. Human
17 conditions are important, too.

18 To what degree is the park really allowed to
19 embrace this notion that our kanaka need to be
20 connected to the resource? They should be managing the
21 pond. They should be active, not just as a park
22 employee here and there, but really, to what degree do
23 you really engage the community and allow them to
24 really have a relationship to a wahi pana?

25 MS. DUCHESNE: Thank you for that question.

1 I would just like to say that for about the last two
2 and a half years, we have had a fishpond hui. They
3 gather every Sunday. And these practitioners are very,
4 very committed. They came to the park and asked to be
5 more involved in helping steward and manage the park.

6 They -- what we are doing as a group led -- you
7 know, they take the lead on this. We identify
8 different actions that we will take on, you know, each
9 Sunday, whether it be jellyfish removal or -- and
10 removal of an invasive pickleweed. So, together we
11 work to -- to make the pond more healthy.

12 We're also mapping different areas of where we've
13 remove vegetation and also areas where plants like
14 makaloa are thriving once again thanks to their removal
15 of invasive species and fresh water that is able to
16 flow more freely. So, together we are working to
17 monitor the pond health and make it healthy.

18 We were proposing to do a fishpond harvest last
19 year, but we met with our kupuna, and they said that
20 the resource was not ready yet. So, we look forward to
21 gathering more information and getting that information
22 so that we can involve the fishpond hui and all the
23 volunteers that come to our park who are here today to
24 be able to engage them to help us manage our park as
25 directed in the spirit report.

1 Oh, my apologies. It's monthly Sundays. My
2 apologies.

3 MR. HANNAHS: I think those things are
4 awesome.

5 MS. DUCHESNE: Well, we invite you to please
6 come down anytime.

7 MR. HANNAHS: I have little practice with
8 fishpond stuff, so I'm happy to. I went there years
9 ago, and I didn't see those people present, when the
10 first fishpond hui was formed, and we had a lokai over
11 there. So, that's a wonderful development.

12 As we look forward to a new federal
13 administration, is there anything at risk, any of this
14 at risk?

15 MS. DUCHESNE: I think parks are always at
16 risk, and it doesn't depend on the administration. It
17 depends on many things. So, that's why we are looking
18 for proactive measures. So, we want to make sure that
19 we have a margin of safety to protect public trust
20 resources. So, it's not just politics that affects it.
21 It's climate change. It's budgets. It's a whole bunch
22 of things.

23 Our mission hasn't changed, and it's consistent no
24 matter what happens.

25 MR. KAWAOKA: Park service, thank you for

1 that information (indiscernible). You mentioned there
2 are several other states with similar situations
3 (indiscernible).

4 Was -- I don't know if you mentioned it, but was
5 there a reasonable resolution or conclusion? Did it
6 result in designation or not?

7 DR. CUTILLO: I think Peter and I can
8 probably offer some comments on this. But, the one
9 thing that, I think, is common with -- well, so in
10 parks, we -- sometimes we have water supply wells.
11 We're actually pumping the water. Then we need to
12 protect those. And then, we also have nonconsumptive
13 uses that we need to protect.

14 In terms of the nonconsumptive uses, what I've
15 seen is most states are moving towards protection
16 areas. So, this is what Nevada did to protect Devils
17 Hole. This is what the state of Montana did to protect
18 the hydrothermal features in Yellowstone. And
19 protection areas were used by Utah, the state of Utah,
20 to protect springs in Arches National Park. And it's
21 the direction that Oklahoma is moving to protect
22 springs and streams that emanate from the
23 Arbuckle-Simpson Aquifer. So, I think that this idea
24 of identifying an area where you want to either
25 maintain existing conditions or improve conditions and

1 then managing development to achieve that goal is one
2 commonality.

3 MR. FAHMY: I might just add that what we do
4 is we look first to the states to help protect what we
5 believe are legitimate needs for protection of the
6 resources that these parks were designated for. And
7 we're -- in the case of Nevada, we actually asked the
8 State engineer to help protect an area having
9 endangered species, the Devils Hole pupfish, and the
10 State engineer created an area within which he applied
11 special management actions with regards to conserving
12 new well permits and changes of water rights within
13 that area.

14 So, we always look to the state to ask the state
15 what is in your toolbox? What can you do, you know,
16 that's legally enforceable and that's substantive to
17 protect these resources? because we recognize the
18 primacy of states in allocating and managing their
19 water resources, and we've always looked to states.
20 And we realize that states -- their water laws, their
21 management procedures, have evolved over time and
22 continue to evolve as things change with regards to
23 their management actions.

24 MR. SCHEUER: Just to add briefly,
25 Commissioner, Hawaii's -- well, Hawaii's Water Code was

1 adopted largely as part -- part of the model Water
2 Code. The whole designation process is unusual in
3 Hawaii, so the success in other national park efforts
4 in other jurisdictions is not to avoid designation, per
5 se, because that process doesn't exist. But, if the
6 question is was the park able to offer alternatives
7 that protected the park's resources and allowed other
8 productive uses of water to occur outside the areas of
9 sensitivity, the answer is yes.

10 MR. KAWAOKA: So, there is a -- thank you for
11 that response.

12 Just to -- did you consider, or you are
13 considering, possible preemption options, as well?

14 MR. FAHMY: Well, that -- we try to avoid
15 that. We only do that when there is no alternatives
16 remaining, when we've reached -- and I might say that
17 sometimes it's other third parties who will take action
18 against the park service for the park service's failure
19 to abide by its mission. The park service has suffered
20 legal reverses where third parties who have a very
21 strong view with regards to protecting natural
22 resources have sued the park service and have gotten
23 judgments against the park service, or it's been
24 determined that the park service did not act
25 proactively, did not fulfill its mission to protect

1 resources for future generations.

2 We would prefer not to be in that position. We
3 would prefer -- as Paula mentioned, we've been very
4 active in the states. Just last month, before this new
5 administration came in to being, we concluded our ninth
6 settlement with the state of Utah. We have nine water
7 right settlements in the state of Utah. Out of 13
8 national parks, we have completed nine, and we are
9 working on the tenth. We have -- make it our
10 concerted, you know, efforts to work with states to
11 encourage them to use their tools and generate new
12 tools, if need be, to protect these resources.

13 CHAIRPERSON CASE: Can I ask a follow-up
14 question to that from your experience in the states?
15 When you talk about that trigger, what, exactly, are
16 you triggering? What are you -- I mean, do you -- is
17 your suggested condition if these triggers are met --
18 is -- what's the next step? I mean, is it -- it comes
19 back to the commission to decide what to do about --
20 about initiating a petition?

21 MR. FAHMY: Absolutely. In one case, in the
22 state of Oklahoma, they actually (indiscernible) passed
23 a new statute to protect springs and seeps in Arbuckle
24 Aquifer, which protected springs and seeps within
25 Chickasaw National Recreational Area. So, it's --

1 oftentimes is something where there's a dialog that
2 continues to occur. And once a trigger is reached, I
3 think, given the responsibility the commission has, you
4 could say, well, what's the next step for us? What can
5 we do? And maybe designation, maybe something else.
6 What -- and you, obviously, have competent and capable
7 legal advisors who can map out alternative courses of
8 management actions that you can take.

9 But, fundamentally, as I said earlier, we believe
10 in the primacy of state control over water resource
11 allocation and management. We believe that states have
12 the ability to solve and address these complicated
13 issues of protecting public trust uses and resources
14 and, in the case of Hawaii, traditional and customary
15 practices.

16 MR. KAWAOKA: Chair, I have one more question
17 with your permission. I call Roy Hardy.

18 Roy, I don't mean to put you on the spot, but I
19 mean, you've heard park service recommendations. I
20 don't know if you heard it before or this is the first
21 time you're hearing it.

22 Do you have any reaction to it if you did, or --
23 at this point?

24 MR. HARDY: For the four that they mentioned?

25 I don't have my notes in here, but yeah. We look

1 -- I mean, it was presented to us, and some of those
2 triggers were -- I guess, in staff's mind, they were
3 immediate triggers, meaning no change, which is what
4 the park has been talking about, like no -- no changes
5 in water levels, no changes in chlorides, and so forth.
6 And rather than that, we had, kind of, different
7 triggers, so it gets into the details. It's kind of
8 like that iceberg I was talking about, the real deep
9 stuff. So, we were familiar with that.

10 The other two about the -- a reduction in the
11 discharge, there's been some discussion about it. It's
12 very localized. Hard to do without numerical model.
13 The sustainable yield we use right now, it's not going
14 to give you localized things. Pump tests will do that,
15 so we do that. But, having an applicant do that
16 without a numerical model and without actually drilling
17 a well and pump testing it, hard to do. So, that's our
18 feeling on that, as well.

19 And the second one was what?

20 DR. CUTILLO: Oh, adding the questions from
21 the water use permit to the well construction --

22 MR. HARDY: Yeah. On the public notice, and
23 adding some -- yeah. And many of those were actually
24 changing the well construction permit into, de facto, a
25 water use permit. So, we're talking about changing --

1 that's what designation does is we start doing water
2 use permits. Adding those things to the well
3 construction, de facto, turns it into, basically, a
4 water use permit.

5 MR. KAWAOKA: One of the assertions was to
6 basically do the ruling thing, enforcement in the
7 permit. If I can put my regulator hat on, I mean,
8 that's a long onerous process, as you well know.

9 But, do you feel you could do that kind of
10 rulemaking without designation, or is that possible to
11 do? Do you feel you have enough teeth in your rules
12 now to do those kinds of things, or do you need to go
13 through --

14 MR. HARDY: In the current process -- well,
15 take specific public notice. It's not a public notice
16 as far as what's specified in a water use permit. But,
17 what we do right now is we notice it in the bulletin.
18 I mean, that's a notice.

19 Is that enough?

20 I guess, that's the question. But, again, I
21 think, staff's feeling is that many of the suggestions
22 are really changing the well permitting process into
23 more of a water use permit process.

24 MR. KAWAOKA: Do you feel that's the
25 direction it's heading, or --

1 MR. HARDY: I don't think we need to go to
2 that point yet, based upon the designation process.
3 That's what the law and the Water Code dictates.

4 MR. KAWAOKA: Thank you.

5 Thanks, Chair.

6 CHAIRPERSON CASE: Kamana Beamer.

7 MR. BEAMER: Thank you. Roy, I don't know if
8 you might want to sit up there. Some of it might bleed
9 over into your kuleana. But, it's primarily for the
10 park, so just so I'm super clear and, I think, for the
11 sake of the public, as well.

12 So, you're contending there are significant
13 impacts right now to some of the natural species, the
14 damselfly, the -- sort of an ideal state for limu
15 growth and mullet and that that might, you know,
16 adversely impact -- it affect traditional and customary
17 practice, you know, in the future, right, so moving
18 forward. Might.

19 I want to get to the question about findings of
20 fact and, you know, I think, that point. I've been on
21 this commission for almost four years now, and, you
22 know, I want to know why do we not have a finding of
23 fact, or did we decide not to put that out, you know,
24 if everyone to, sort of, see so if we do make a
25 decision today, it's very clear for future bodies to

1 understand, sort of, the merits of our decision and the
2 logic?

3 MR. SCHEUER: Commissioner Beamer, so two
4 things. First, I believe that the staff and your
5 attorney general were correct that findings of fact did
6 not need to be prepared during this 60 days or
7 such-time-as-may-be-necessary stage that we have been
8 on for three and a half years. But, I think you're
9 significantly hampered in making a thoughtful decision
10 absent findings of fact, which are developed after the
11 public hearing process if you continue.

12 To reflect what I believe is on the record, I
13 believe the park has shown various ways in the petition
14 as well as in subsequent presentations and written
15 submittals that the species within the park are right
16 now existing at their thresholds for salinity. So,
17 with increasing withdrawals of fresh water, those
18 thresholds would be crossed.

19 But, I think it's also clear and uncontroverted in
20 the record -- and these were people who we were not in
21 touch with, did not know about it. But, at least one
22 Native Hawaiian came forward attesting to his exercise
23 of traditional and customary practices in the southern
24 coastal portion of the Keauhou Aquifer around the
25 Kahaluu Shaft while he was growing up and that species

1 -- and he named them from octopus to mullet to other
2 things -- were abundant and disappeared at the time the
3 shaft was -- started to pump and have not returned
4 since. So, outside of the park boundaries -- and just
5 to be very clear, I'm not suggesting the Kahaluu Shaft
6 has affected the park, but I'm saying the Kahaluu Shaft
7 has affected, according to the record the commission
8 has, the exercise of traditional and customary
9 practices within the coastal portions of the Keauhou
10 Aquifer.

11 MR. BEAMER: And then, also, just so I'm
12 really clear, you guys have suggested several
13 additional, you know, conditions or salinity triggers,
14 other processes, you know, that we discussed because
15 you're not comfortable with these eight suggestions,
16 and you don't feel that there's adequate protection
17 that's accomplished through these eight provisions; is
18 that pretty accurate?

19 MR. SCHEUER: Yes, that's accurate.
20 Certainly, the superintendent or others could respond.
21 Many of the suggestions, while they are going in the
22 right direction, there's -- you know, we want to
23 encourage monitoring wells. We're going to, you know,
24 suggest various things. These are not binding kinds of
25 conditions that we know -- we can tell people who

1 (indiscernible) are going to protect resources.

2 MR. FAHMY: And if I may elaborate, one of my
3 concerns in reading these proposed actions as they're
4 termed is -- oftentimes there's a suggested action, but
5 there's no timeframe given. It's very unclear, for
6 instance, if you look at Condition No. 1, which talks
7 about referral of a well permit -- permit application
8 (indiscernible) what the timeframe for the review is or
9 how the proposed permit area that they be affected by
10 the proposed action will be determined.

11 Who's going to determine what that area that's
12 going to be evaluated will be? And who will be
13 involved in that evaluation?

14 This is, you know, certainly, some -- some early
15 suggestions about what you could do in that process,
16 but I think they're -- they really haven't been fully
17 developed as potential actions that the commission and
18 staff could undertake. So, there are concerns that we
19 have.

20 I think Commissioner Buck mentioned this issue of
21 encouraging the installation of a deep monitor well,
22 and what question that came to my mind was, would that
23 -- this proposed action require condition on a well
24 construction permit? Would you actually say, okay. As
25 a condition of the issuance of this well construction

1 permit, you shall, prior to the construction of that
2 well, construct a deep monitor well?

3 This does not provide that level of detail.

4 MR. BEAMER: Maybe the last one.

5 And, Roy, if you can help me, so -- you know, I do
6 remember those requests -- or, you know, short of
7 designation, could we look at an ahupuaa level basis
8 and what the sustainable yield might look like in a
9 locality, that ahupuaa, and maybe it looks different.
10 But, as a staff and as a commission, we didn't include
11 those recommendations because it -- can you help me to
12 understand, you know, some of the earlier
13 recommendations about --

14 MR. HARDY: The smaller area --

15 MR. BEAMER: -- the smaller area to
16 designate, right? I mean, we had this sort of
17 mediation process where they sat down with the County
18 and tried to come up with different ways to mitigate
19 this, but I guess, today they're saying none of those
20 are effectively in our recommendations.

21 Is that -- is that accurate, or --

22 MR. HARDY: It's not in the recommendation,
23 correct. I mean, it's in the record.

24 MR. BEAMER: Okay.

25 MR. HARDY: The commission already acted on

1 the smaller area.

2 MR. BEAMER: Yeah.

3 MR. HARDY: Mediation, you know, took its
4 course. It wasn't as fruitful as we had hoped or any
5 of the parties had hoped, I think.

6 MR. BEAMER: And even something like a
7 salinity trigger, you feel, is too strict in this
8 instance because it doesn't -- you're saying,
9 basically, there was no change, right?

10 MR. HARDY: The ones presented by the
11 national park.

12 MR. BEAMER: Yeah.

13 MR. HARDY: (Indiscernible) had, as well,
14 based on the long-term record, and we had some
15 discussion about that. But, yeah, I don't think we
16 need to go there.

17 MR. BEAMER: Okay.

18 CHAIRPERSON CASE: I'm going to suggest we
19 break for lunch.

20 MR. BUCK: I'd like to make a motion that we
21 break in executive session so we can consult with our
22 legal during lunch.

23 MR. BEAMER: Second.

24 CHAIRPERSON CASE: Okay. All in favor. Aye.
25 Okay. Let's take -- let's plan -- let's aim for half

1 an hour, so let's aim to come back at 1:45.

2 (A lunch recess was taken from 1:16 p.m.
3 to 1:55 p.m.)

4 CHAIRPERSON CASE: Thank you, everyone. Back
5 from lunch. Hope you got to eat.

6 We're going to move on to public testimony now.
7 As I said, we have a lot of people who want to give
8 testimony, so I kindly ask you to keep your testimony
9 to three minutes. And we want to start with the
10 Honorable Mayor Kim.

11 You can have more than three minutes. No.

12 MAYOR KIM: Can you hear me? Am I on?

13 CHAIRPERSON CASE: No. It's got to be red.

14 MAYOR KIM: All right. Thank you very much
15 for taking me first. I appreciate it. I wanted to
16 just comment, because Mr. Hardy mentioned waste water,
17 R1, R2. I just wanted to say to the board and the
18 public, you know, I know they hear it all. Guys,
19 please trust us. I met with national park and
20 Department of Water Supply, and one thing that was very
21 obvious to me, they both had the same mission of
22 protection of people and their water. And I just -- my
23 position was just a little different than designation.
24 (Indiscernible) to make sure we do our job as far as
25 working with them to establish a really, really good

1 monitoring system that they would approve of and
2 promote, even if it would cost us extra money and
3 saying that to the water department.

4 The point I wanted to make here was what was
5 already talked about, those R1, R2, and commit to you
6 that we have made a commitment to convert from R1 -- R2
7 to R1, and what that does is -- we inject into the
8 earth now roughly over million and a half gallons a
9 day, and we will have that converted to R1 where
10 regulations now say we can use it for irrigation. And
11 therefore, instead of just injection -- we're making
12 good use, but the use also means less water usage from
13 the Department of Water Supply.

14 I don't know how else to say to you, members of
15 the board, that I really feel that Mr. Hardy's
16 recommendation of staff is solid. It will do what, I
17 think, they want us to do, Water -- national park,
18 because the protection of the water for all usage.

19 The second thing is I really want to thank you for
20 your treatment of Abel. Abel and I go a long ways
21 back. He considers me family because our tutu man. I
22 have sat down with him for hours down the beach totally
23 alone, just to talk and understand. The reason I do
24 that with him and others -- I'm not Hawaiian. I don't
25 pretend to be. I need to know, you know, why they feel

1 or how they feel. I'll never be able to know how they
2 feel. It's too deep. My job is to understand why they
3 feel that way so I can do my job better and balance
4 what I have to do. I thank you for your treatment of
5 him.

6 (Indiscernible) I think it says a lot, especially
7 the group behind me on my left. He always uses the
8 word -- he goes, You know, Harry -- when we went
9 outside, he says, You know how sore, touching his
10 heart. I think for you old-timers out there, you know,
11 they use that word when it means it really hurts, sore.
12 I know, as I told him, what you say how sore it is.

13 And we do understand how serious that means. We
14 will do our job. National parks' concern and ours is
15 the same. We need to balance -- the usage. We need to
16 monitor. We will work with them and establish an award
17 monitoring system to help them do their job for us. Us
18 means the people. And we will do that.

19 I think this is the first public statement we made
20 in regards to commitment of the R2 to R1, and it's not
21 because of this. We had that meeting long time ago.
22 And said we can start next year, and hopefully, you
23 know, be finished before 2020, around 2020, and that
24 will convert close to 2 million gallons of water for
25 irrigation purposes.

1 I thank you for your work. We will do our work,
2 as we promise you. Thank you.

3 CHAIRPERSON CASE: Thank you very much.
4 Thank you for spending the time with us today, as well.

5 Okay. The next is Ken nah rows.

6 MR. MELROSE: Thank you. Chairman, members
7 of the commission, my name is Ken Melrose. I've been a
8 resident of Hawaii since it was a territory. And I
9 testified a number of times during these proceedings
10 over the last several years. I do not support the
11 designation, and I ask you not to, either, and accept
12 your staff report as -- and their recommendations in
13 denying this petition.

14 The Kona community selected its preferred growth
15 scenario and overall strategy in the Kona Community
16 Development Plan, which was adopted in 2008. Approval
17 of the staff recommendation by CWRM will reinforce that
18 strategy to direct future growth north of Keauhou
19 through roads that can be connected. Travel distances
20 between home and work can be shortened, and utility
21 services, government services, and recreational
22 opportunities are available.

23 The alternatives to designation called for in the
24 staff recommendation present a reasonable framework to
25 monitor future impacts of the aquifer. With them,

1 Water Supply can pursue -- be encouraged to pursue
2 sources to the southern part of this aquifer, and the
3 division of environmental management can be encouraged,
4 as Mayor Kim has pointed out, to help with the water
5 budget overall and reclaim the water that comes out of
6 the ground, put it back on top. And that's an
7 important.

8 The Kona Community Development Plan envisions the
9 national park at Kaloko-Honokohau at the core of a
10 17-mile protected shoreline and its open space
11 components. I am hopeful that the national park can
12 redirect its resources away from this petition and
13 toward enhancing the vitality of its own ponds like its
14 neighbors do.

15 I ask that the commission expand on the staff
16 recommendations related to monitoring and to ask -- and
17 direct the national park to cooperate, to provide their
18 raw data openly so that it can be placed into a
19 regional monitoring program. It's been in place for
20 decades through the Department of Health for regional
21 coastal near-shore and groundwater. So, I ask that you
22 accept the staff recommendation and deny the petition.
23 Thank you.

24 MR. BUCK: Mr. Melrose, everything I heard
25 from the park seems to indicate that the data is

1 available. They're willing to share it. It's on their
2 web site.

3 Have you found that not to be the case --

4 MR. MELROSE: For a period, it's my
5 recollection in this process, for a period of well over
6 a year in the middle of this process, that data was not
7 available and not opened and shared, not placed into a
8 framework that is used for the Department of Health.

9 The Department of Health has a challenge in its
10 divisions, so a lot of data comes in and it's all in
11 silos. And if they can work -- the Department of
12 Health can work to find a way to reinforce that data
13 across the silos so that it has better reporting, it's
14 going to help. But, the national park data was AWAL
15 for a long time.

16 MR. BUCK: Okay. Everything I heard to date
17 seems to indicate the data's available and online or
18 open to the public.

19 MR. MELROSE: Yeah. And now it is.

20 MR. BUCK: Oh, good. Thank you.

21 MR. MELROSE: And the other point, I think, I
22 would make -- and Commissioner Buck has said -- is that
23 if you looked at one of the tables that Roy Hardy
24 presented related to monitoring data that was in the
25 national park, there's a big wide gap in between there.

1 And, you know, it's my understanding that that's
2 probably a result of lack of funding for them to
3 maintain their own monitoring requirements. And, you
4 know, the monitoring requirement that's -- it's in the
5 staff recommendation. It's not a cheap thing. You
6 know, everyone that's involved in water resource and on
7 both sides -- all sides of the table, it's going to
8 cost them more to do that monitoring.

9 It's important to do. We need the do it,
10 particularly in this more limited resource, this
11 smaller bucket that we have underneath us. But, it's
12 going to be more expensive for everybody.

13 CHAIRPERSON CASE: Thank you.

14 Tony Carrasco. David Kadowaki. Jon Nishimura.
15 Lance Fukumoto. Dori Ingalls.

16 MS. INGALLS: Thank you very much. My name
17 is Dori Ingalls. I am a product of Bernie Sanders. I
18 was born and raised in Vermont and moved here in 1971.

19 So, my only thought was to present my feeling at
20 this hearing was that I felt the Hawaii staff put
21 together an extraordinary, detailed, 38-page report,
22 which I read a couple of times. And at this hearing
23 today, I wanted to come hear the other side, and I
24 don't feel that the parks department had a good case to
25 establish this water management area because -- and I

1 understand why Mr. Hardy wouldn't -- there's a little
2 bit of compromise. But, if they don't feel there's an
3 issue, then a compromise would have been a more
4 difficult place to be.

5 So, from the outside looking in -- and I'm not a
6 scientist. I do know water. It just -- I feel that
7 the State has done a great program with their staff. I
8 think that the monitoring they've done so far is great.

9 We all know more can be done. I have a program
10 called realsimplegreen.com, so I know how to -- I think
11 we should educate our people to use less water, and
12 that's a possibility. So, when I heard all of these
13 encouragements, I thought that that's another step that
14 the State could take to, in a fun way, teach people how
15 to conserve water and put that in a program somewhere
16 along the line as an educational thing starting with
17 kids in school. So, thank you very much for listening.

18 CHAIRPERSON CASE: Thank you.

19 Fred Cachola.

20 MR. CACHOLA: Aloha, Chairman Case, members
21 of the commission. Aloha kakou. I appeared to you
22 before, and I'd like to submit my written testimony.
23 I'll make it as brief as I can. Thank you very much.

24 I am Fred Keakaokalani Cachola. I was born and
25 raised in Kohala. I'm very, very familiar with West

1 Hawaii and the Kona area. And I wear many hats that
2 service the communities and West Hawaii.

3 The hat that I'd like to wear today is the one
4 that I wore 40 years ago when I was with 13 half
5 Hawaiians who were appointed by the secretary of
6 interior to determine whether the historic settlement
7 at Kaloko-Honokohau should, indeed, maybe, become part
8 of the national park system. I was very proud to be
9 with those Hawaiians and wanted to make my first point
10 today that this national park, Kaloko-Honokohau, is not
11 a product of some Washington backroom bureaucracy.
12 This park was instilled and initiated and established
13 by Hawaiians.

14 And I was very proud to be with two of them, Mauna
15 Roy and Abbie Napeahi (indiscernible), when we
16 presented this report to the Secretary of Interior in
17 1974. I was very proud to be there, because as we've
18 said, this place, this special place, got to be
19 preserved. The environment, the ecosystem, all that is
20 required for Hawaiians to perpetuate who they are,
21 where they came from, and what they do here today.
22 Then we will continue to have a place to build upon and
23 work on and perpetuate our traditional and customary
24 rights and responsibilities as Hawaiians to the aina,
25 to the community, and everybody else in the world.

1 I really like this place that we signed when we
2 submitted this report in 1974. We said we take special
3 pleasure in presenting this study because, perhaps, for
4 the first time, Native Hawaiians have been able to tell
5 their story and tell it in their own way. This is in
6 1974.

7 Forty years later, we are still doing that. We're
8 still trying to tell our story and tell it in our own
9 way. And point number one is that all of the staff
10 from the NPS are doing exactly what Hawaiians told them
11 to do -- preserve, protect this place, allow Hawaiians
12 to perpetuate their customs and traditions. I'll just
13 name a few of these Hawaiians that served with us.
14 Horner Hayes, Iolani Luahine, George Naope, David Roy,
15 Abbie Napeahi, Colonel Arthur Chun, Kwai Wah Lee, Emily
16 Ka'ai Thomas, Nani Bowman, Keoki Pinehaka, Henry
17 Boshard, Pilipo Springer, and yours truly, Fred
18 Cachola.

19 So, I come before you, and I know that their
20 spirit is with me. And essentially, this is what I 'm
21 asking you to do. Fulfill your constitutional and
22 statutory responsibilities to reaffirm and protect all
23 rights customarily and traditionally exercised for
24 subsistence, cultural, and religious purposes by
25 Hawaiians. You have that responsibility, ladies and

1 gentlemen. And I just respectfully say that you -- you
2 do so.

3 And I -- I just have four other points to make
4 real quick in support of that (indiscernible) testimony
5 for you to complete those statutory and constitutional
6 responsibilities. The commission does not have a
7 thorough inventory or assessment of the Hawaiian
8 customs and traditional practices here in this ahupuaa,
9 here in this area, Kaloko-Honokohau.

10 How can you determine whether you have, indeed,
11 reaffirmed and protected those customary rights and
12 traditions if you don't have an inventory and
13 assessment of what they are? At what point will you be
14 able to say we've met these requirements when you don't
15 know what some of those customs and traditions are?

16 And I urge you not to just limit your discussions
17 with the Aha Moku Council (indiscernible). There are
18 many, many Native Hawaiian organizations that you may
19 go to. Just as the Advisory Council on Historic
20 Preservation that recommends -- when they encourage
21 Hawaiians to consult under the terms of Section 106 of
22 the native -- of the National Historic Preservation
23 Act. I urge you to use that definition when you
24 consult with Hawaiians to determine what are your
25 traditions, what are your customary practices. You've

1 got to get an inventory.

2 And just a reminder, the Hawaii Supreme Court have
3 given clear guidance to State agencies like the water
4 commission on how to address traditional and customary
5 rights in the Ka Pa'akai case. The very first step an
6 agency's supposed to take is to make specific findings
7 as to the identity and scope of valued cultural,
8 historical, or natural resources in the petition area,
9 including the extent to which tradition and customary
10 Native Hawaiian rights are exercised in the petition
11 area.

12 Have you made specific findings, as the court
13 suggested that you do -- not suggested, mandated that
14 you do? Have you -- have you found specific findings?
15 Have you determined the extent to which those findings
16 are affected by your decisions?

17 Number two, I don't think the commission has any
18 data now on the effects of rapid ohia death. I'm so
19 glad to hear that point being brought up earlier this
20 morning by my friend and colleague, Neil Hannahs.

21 Without knowing the extent of the damage of this
22 occurring, how fast, where, and how it affects
23 watersheds in this area, how can you make a decision?

24 I think that would be irresponsible. Thousands
25 and thousands of trees and thousands and thousands of

1 acres of forest are being destroyed right now on the
2 slopes of Mauna Kea, Mauna Loa, and Lualualai.

3 Do we know what the diminishing forest do for
4 watersheds and for replenishing the aquifer here?

5 We don't.

6 Three -- and I just got two more. Recently, the
7 legislature legislated that DLNR consider and encourage
8 traditional Hawaiian customs and beliefs in the
9 management of our cultural and natural resources and
10 encourage the practice and establishment of the Aha
11 Moku Councils. This is -- that's just a recent entity,
12 Aha Moku Councils, and it's -- Mrs. DaMate and others
13 are working hard to try to get it going.

14 But, do not look at just that council. Look at
15 the entire Hawaiian community as was so well discussed
16 by (indiscernible) today. Look at the Hawaiian
17 community, not just a council. And again, I would
18 encourage the use of Native Hawaiian organizations as
19 defined by the Advisory Council on Historic
20 Preservation when you consult with them.

21 My last point is that loko ia, traditional
22 Hawaiian fishponds, as developed by our ancient kupuna
23 are ingenious and unique methods of fish ponding and
24 are undisputedly part of the traditional, customary
25 Hawaiian practices. A study in 1989 found 480 -- 488

1 loko ia. Ninety of them were in production.

2 Has this commission ever wondered how your
3 decisions affect this tremendous source of food and
4 protein for not just Hawaiians but for this entire
5 state?

6 I would consider that. Before you make a
7 decision, you consider exactly how it's going to affect
8 not just Kaloko and Aimakapa here but the decisions
9 here and how it's going to affect the other 400
10 fishponds throughout the state and the customary
11 practices that go with it. So, in essence, I'm
12 suggesting that -- strongly suggesting that you fulfill
13 your constitutional and statutory requirements before
14 you make this final decision. And I would suggest that
15 you encourage as many Native Hawaiians to be involved
16 with you.

17 And by the way, there was a sign I saw on upper
18 highway, big sign with flashing words. Reduce water
19 production by 25 percent.

20 Was that yours? Was it the County's? Doesn't
21 that tell you that -- doesn't it tell you something
22 already?

23 And it's right in this aquifer. Reduce water by
24 25 percent. There must have been a reason for doing
25 that.

1 Have you guys figured out who did that and why?

2 At any rate, commissioners, I really appreciate
3 doing this, and I urge you to look at yourselves and
4 tell yourself, have we met our constitutional and
5 statutory responsibilities? Have we met them to the
6 degree that you can stand firm and clear with
7 everything that you're doing?

8 Please ask yourself that question. Mahalo.
9 Mahalo nui loa.

10 CHAIRPERSON CASE: Thank you.

11 MR. BUCK: I got one question. Excuse me.
12 One question, please.

13 MR. CACHOLA: Sure.

14 MR. BUCK: Thank you very much for your
15 testimony.

16 Do you have any other Hawaiian organizations you
17 would recommend?

18 MR. CACHOLA: Royal Order of Kamehameha, Moku
19 O Kona, and Moku O Kohala, the Hawaiian civic clubs.
20 The senior citizens have a lot of kupuna, and that's
21 who you got to go to, the people who have lived here
22 whose ancestors go back generations. And if you like,
23 I can get the list of Native Hawaiian organizations
24 that the Advisory Council on Historic Preservation uses
25 when they encourage agencies to consult with Native

1 Hawaiians. Here's a list. The Department of Defense
2 has a list, and whenever they affect historic sites
3 like in Pohakuloa (indiscernible), they send notices to
4 everybody, the NHOs. Use that list. Mahalo.

5 CHAIRPERSON CASE: Thank you.

6 MR. PAVAO: Mr. Cachola, that sign that you
7 saw on the highway.

8 MR. CACHOLA: Yes.

9 MR. PAVAO: That has nothing to do with the
10 health of the aquifer. That's only because some of the
11 pumps have burnt or are not working. So, it has
12 nothing to do with the healthiness or the effectiveness
13 of the aquifer.

14 MR. CACHOLA: Thank you very much for that
15 clarification, Mr. Pavao, but when I saw that sign, the
16 first thing that comes to me is we don't have enough
17 water. That's what comes to my mind. And nobody
18 explains, oh, because the pumps are not working
19 correctly.

20 CHAIRPERSON CASE: Thank you.

21 MR. CACHOLA: Thank You.

22 CHAIRPERSON CASE: Yvonne Izu, Yvonne Izu.
23 No. Nakama, Teresa.

24 MS. NAKAMA: Aloha. I know it's been a long
25 day. This is just the beginning of testimony. I'm

1 Teresa Nakama, born and raised and will die here on the
2 island. This is what we are. We are an island. But,
3 you can put all the other islands on this island, and
4 we still have more room for another island to be here.

5 This island is forever evolving. It changes. The
6 ecosystem changes. Along with the changes are
7 shoreline changes. We can compare what's happening to
8 this island to what has happened on the other islands
9 of Maui, Oahu, and Kauai. We need to take a look at
10 the whole picture.

11 Protection is vital.

12 What are the future developments of this area? Is
13 it 25,000 house lots going south of Keauhou? Is it
14 another 2,500 house lots just mauka of this area? What
15 is the future when you look at the whole picture when
16 you make a decision here? Is it just a protection of
17 water and why we must protect the water and why this
18 designation is needed? Do you protect your bodies? Do
19 you protect your kidneys?

20 Water is life. If we don't have this layer of
21 protection for our water, what is future development
22 effects going to come about?

23 This is -- this is something that's vital, to have
24 another layer of protection.

25 Our ahupuaa system, mauka to makai, you all have

1 that knowledge. You've all looked at it.

2 But, do you implement what you've learned? Do you
3 know the waters from mauka, makai nourishes our shores?

4 This is how replenishment is done for our limu and
5 our marine species.

6 If development comes without this layer of
7 protection, is there a lack of responsibility from our
8 State and County to fulfill their obligations? And if
9 it wasn't for the national park bringing this about,
10 would they have still looked at how they're looking at
11 it now?

12 I think because of the national park asking for
13 this protection, everybody is on their toes to bring
14 about this protection. This is why this designation is
15 needed, not because developers are not going to get
16 what they want, not because of homeowners who have
17 large track of properties to develop, they're not going
18 to get what they want. This is a layer of protection.
19 This is what we're looking at. Let's integrate what
20 the County has to do with this layer of protection.

21 I support the designation.

22 As far as the rapid ohia death, I was at a meeting
23 last night, and JB Friday, the person involved in
24 looking into what's really happening, they're not even
25 close to solving the problem. And mainly, it's the

1 Puna area right now that's been affected. They're
2 looking at temperature control, heat and cold. They
3 have not found a resolution as to how they can stop the
4 spreading of the sap when it's attacked by this -- by
5 this fungus. It is at the very core of the ohia tree,
6 and they found two areas that it comes from, one from
7 Asia and one from Central America. And they -- they're
8 still asking for questions. They don't have any
9 answers to the rapid ohia death at this time.

10 Have you asked indigenous knowledge? Did you go
11 and find out from our kupunas what is the replenishment
12 of our natural resources? What is the effect that we
13 have on your decision today that's going to have on our
14 water uses of tomorrow? Do we have all the facts in
15 front of us?

16 This is important. This is my life. This is my
17 kidney. This is the water I drink. This is the food I
18 eat. Me and many others behind me.

19 It is not about development. It is not about
20 people wanting to develop. It's not about the
21 homeowner. It has nothing to do with that. It's not
22 about people's pocket.

23 This is about life-sustaining water because our
24 island is alive. It lives. It has an ecosystem. But,
25 it cannot speak for itself.

1 So, look at this layer of protection as something
2 as if you were to protect your body from any disease.
3 This is how your na'au must tell you that we need this
4 designation because our government fails us time to
5 time.

6 CHAIRPERSON CASE: Can I ask you to wrap up
7 your testimony?

8 MS. NAKAMA: Yeah. So, I ask you to allow
9 this designation to happen, the process to continue,
10 public hearings to come about, and let's look at
11 indigenous knowledge. Mahalo.

12 CHAIRPERSON CASE: Thank you.

13 Judith Hayducsko. Peter Young.

14 Just because we haven't been successful with our
15 time so far, if you don't mind, I'm going to put my
16 timer on.

17 MR. YOUNG: Okay. I understand the
18 importance of meeting management.

19 CHAIRPERSON CASE: That's why I'm starting
20 with you.

21 MR. YOUNG: So, now my time starts?

22 CHAIRPERSON CASE: Go ahead.

23 MR. YOUNG: Thank you. I wasn't sure I was
24 going to testify, but I decided I would. I provided
25 written testimony before, but there are some things I'd

1 like to call attention to.

2 Just in a broader case, if you think about it,
3 what this is, is a federal agency using a state law to
4 take jurisdiction away from a County agency. Yet, they
5 say they want to work with everyone. But, effectively,
6 that is what it is.

7 The premise of their petition is that withdrawal
8 from wells, high-level water wells, will increase the
9 salinity in the park's water resources. The first bit
10 of paper that I gave you, this one (indicating), is
11 something that they finally disclosed in May of 2016
12 that said, actually, the contrary is what's happening
13 in the park. The salinity in the park's water
14 resources, their ponds, is decreasing, not increasing.
15 So, what they want is what they're getting.

16 The next one, quotes from the hydrologist from the
17 national park as well as the park's superintendent.
18 There is no evidence of negative impact of withdrawing
19 water from the wells. And it's not just those guys
20 that are worried about it. Other people that have
21 studied the water resources in the national park for 20
22 years or more, guys like Tom Nance and Steve Dollar and
23 Richard Brock and Steve Bowles and others all say there
24 is no evidence of any impact. And in fact, Dr. Don
25 Thomas says neither the National Park Service or anyone

1 else's field data has shown a likely impact from use of
2 high-level water to supply the Kona residents.

3 Department of Health has said there's no quality
4 issue at the national -- at -- for groundwater in the
5 Keauhou Aquifer.

6 The Department of Water Supply shows you that we
7 are well under sustainable yield, well under. Out
8 until 2035, we're still well under sustainable yield.
9 There is no problem of quantity or quality of water in
10 the Keauhou Aquifer, and there is no evidence of impact
11 at all from -- from drilling.

12 The national park also has a -- kind of a do as I
13 say, not as I do kind of thing, and they'll pull out of
14 the spirit report and their management plan information
15 when it's convenient.

16 I'll skip through this (indicating) one. This is
17 some background on it. This is -- that wasn't three
18 minutes.

19 CHAIRPERSON CASE: It was. That's the sound
20 I woke up to 5:00 this morning. Sorry. I can't stop
21 it.

22 MR. YOUNG: It's been 1,000 -- it has been
23 1,250 days since the national park petition was filed
24 September 13, 2013. If they had removed one kiawe tree
25 per day, we would have 1,250 kiawe not in the -- not in

1 the national park. UHERO did a study at Kiholo and
2 said that there's a net positive gain if you remove the
3 kiawe. Kiawe is sucking up the fresh groundwater.
4 Kiawe is growing all around the parks -- the ponds. A
5 hundred acres in the -- of the 600 acres is kiawe
6 forest. The anchialine pond that you guys were taken
7 on a tour to go see had Christmas berry growing over
8 the anchialine pond. Half of the pond is covered by
9 that Christmas berry, and the leaf litter is falling
10 and clogging it up.

11 It is not the time to designate. It doesn't mean
12 it shouldn't be followed. The staff recommendation is
13 reasonable.

14 The addition of the four things that the national
15 park is asking for is -- is effectively an end run
16 around designation. It's going to require a water use
17 permit process subject to a contested case, and it's
18 just not fair to Kona because there is no evidence of
19 any quantity or quality problem.

20 And I think you should go with the staff
21 recommendation. I worked with those guys for four and
22 a half years. I know they look at all of the data
23 that's given to them, and I know that they make a
24 recommendation based on what they think is best for the
25 aquifer, not best for the people, not best for the

1 politics. It's best for the aquifer. I lived with a
2 that with them for four and a half years. Their
3 recommendations are reasonable. Don't pile on with
4 these other ones. Thanks.

5 CHAIRPERSON CASE: Thank you. Halealoha
6 Ayau. Taimiroa Pajimola. Kim Crawford.

7 UNIDENTIFIED SPEAKER: Hold on. Taimiroa
8 will be right up.

9 CHAIRPERSON CASE: Okay. Tanya Power.

10 MS. POWER: Good morning. As I'm not orator,
11 I'm going to have to read. I apologize.

12 MR. PAVAO: Good afternoon.

13 MS. POWER: Oh, yeah. Afternoon. I was
14 reading. Good morning. Good morning. I'm Tanya
15 Power. I'm a resident of Kailua Kona.

16 When this issue was first brought to my attention
17 several years ago, I felt the responsibility to learn
18 about it. I first attended a forum where both sides
19 were presented. And then, every time you've had a
20 meeting here, in Kona, I've made the time to come and
21 listen.

22 There was hours and hours of testimony,
23 scientists, environmentalists, and conjectures. After
24 all these hours, this is the first time I've chosen to
25 testify. In all those hours of listening and learning,

1 in the end, there has been no science to support the
2 designation of Keauhou Aquifer at this time. None of
3 the eight criteria used in considering designation have
4 been met. After all the hours of studying and
5 listening, I cannot find any science to warrant the
6 designation at this time.

7 Continuing monitoring would be prudent. Rather
8 than designation, I think The Kaloko-Honokohau National
9 Historic Park can use its resources, money, tax
10 dollars, and energy to clear out the invasive species
11 that are competing for the fresh water adjacent to the
12 pond, ensuring more fresh water to the ponds. Further,
13 they could benefit by joining the watershed partnership
14 in this area. I don't believe they belong. And the
15 Volcanoes National Park did join the watershed
16 partnership on their side. I'd rather them become a
17 contributing member to this local community rather than
18 being so divisive.

19 Thank you for hearing my testimony. Have a great
20 day. Thank you.

21 CHAIRPERSON CASE: Thank you. You, too.

22 (Indiscernible). Yeah.

23 MS. PAJIMOLA: Hi. Sorry. I was outside.
24 Aloha, everybody --

25 CHAIRPERSON CASE: You got to press the

1 button so it turns red.

2 MS. PAJIMOLA: Okay. Hello. Aloha,
3 everybody. My name is Taimiroa Pajimola. I'm born and
4 raised in Kona. For the past five years, I've been
5 living over in Maui. We were fortunate enough -- my
6 other half and my baby, while I was pregnant, we got to
7 go to COP 21, Conference of the Parties, in Paris,
8 France, and we got to learn a lot about climate change
9 and what's happening with our earth right now. And I
10 just want to say that we're in a very critical state.

11 Something that I'd like to comment on that I think
12 is very important, that's something that we should
13 recognize, is that earlier, when we had first come in,
14 my baby was making a little bit of noise, and then
15 there was a comment that someone said, you know,
16 someone should get that baby out of here. I think it's
17 very important that we recognize this because I think
18 that a lot of the decisions that we're making right now
19 is in dismissal of that future generation.

20 I also want to, you know, make note that what the
21 hydrologist, Roy, was saying is that in 69 years from
22 now, that's when our 90 percent sustainability will be
23 reached. And yeah. A lot of us will have passed away.
24 But, my baby girl will still be alive, and her children
25 will be alive, yeah, and I don't want her to have to

1 come back to these meetings and beg you guys to
2 petition again to support a water designation again.

3 And I would also like to make note that in 1992,
4 the water commission did designate Molokai, the entire
5 island of Molokai, as a water management area despite
6 finding that none of the eight criteria were met. I
7 believe that this was what's called seven generation
8 decisionmaking. They thought about not just their
9 future but their future's future and beyond that. And
10 even though none of the eight criteria were yet met,
11 they decided collectively that this is something that
12 we need to protect before we come back to one of these
13 meetings and before we have to petition again to
14 designate this water management area.

15 And it's not going to stop development, because I
16 was living in Maui for five years, and I was part of
17 the Na Wai Eha cases. I was not directly a petitioner,
18 but I was involved in sign waving. And we did go and
19 testify at every meeting, and we did go and sign wave.

20 And let me tell you, there's plenty of development
21 still going on. It doesn't stop it. It does slow it
22 down and allow developers to become accountable for the
23 sustainable yield and sustainable practices that they
24 should be already implementing in their developments
25 because our island is only small. We can only put so

1 much concrete on this island.

2 So, I just want to mahalo you guys for staying and
3 coming and listening to all of us give our thoughts.
4 And I just want to say that I'm in support of the
5 national park designating this water management area as
6 a -- yeah, as an area for -- we're protecting. Mahalo.
7 Thank you.

8 CHAIRPERSON CASE: Thank you. Lowrey Power.

9 MS. CRAWFORD: I think I was after Taimiroa,
10 and we just got passed up real quick, so is it okay if
11 I go?

12 Kimberly Crawford.

13 Kala mai for the stuttering. I'm terrible at
14 public speaking. I'm better at working in the loi and
15 the loko. My name is Kimberly Makalapua Crawford. I'm
16 23 years old, and I'm submitting this testimony as a
17 lifelong resident of Hualalai, a mother, and a kiai
18 loko. From the waters of Hualalai, my family will be
19 nourished and cleansed for our entire lives.

20 When I think of the increase in development and
21 population in my short time alive combined with the
22 proposed and upcoming development in the Kona region, I
23 am fearful for my daughter's quality of life and the
24 kanaka maoli. She descends from a people who are not
25 only deeply connected with all of their resources but

1 also more times than not improve the quality and
2 functionality of them. And that's something that we
3 are lacking in these formal meetings, and that needs to
4 change.

5 As a young kiai loko at Kaloko-Honokohau -- I am
6 one of the practitioners that he asked Jonathan about
7 -- I spiritually and visibly understand the importance
8 in ensuring our estuaries, anchialine ponds, and loko
9 ia are receiving the highest quantity and quality of
10 water possible. It is my duty to make sure these
11 unheard voices are heard, and right now, they are
12 asking for help. The limu, the ia, the native flora
13 and fauna, the birds, the puhi, the damselflies, and
14 the native people are asking for help. And right now,
15 I am here to fight for their right to thrive.

16 When I hear you want to begin pumping waters from
17 South Kona, I worry about our people who can no longer
18 afford to live in Kona and are being pushed to those
19 more southern rural areas. And I worry about their
20 future of their water. When I hear we haven't met the
21 criteria for designation, I reflect on all the water
22 wars around the world, and I ask you to implement these
23 measures of designation to safeguard our keiki from
24 having to make this -- to having to fight for this
25 vital resource in the future.

1 It's our kuleana as makua to ensure our keiki a
2 good future, and I think it's important you know that
3 we're not going anywhere.

4 Thank you for your time.

5 CHAIRPERSON CASE: Thank you. Lowrey Power.

6 MR. POWER: Good afternoon. My name is
7 Lowrey Power, and I'm fourth generation resident of
8 Hawaii. Been in Kona since 1973. I grew up in
9 Honolulu.

10 And at this time, I do not support the
11 designation. I have many concerns about designating
12 the Keauhou Aquifer as a special management area at
13 this juncture without more convincing evidence of the
14 impact that the community will endure once a
15 designation is enacted.

16 It would be prudent for the decision process to
17 gather all the facts in all areas before plowing into a
18 situation prematurely that many -- excuse me -- that
19 many have -- that many would have unintended
20 consequences both good and bad. I feel the current
21 findings do not warrant designation at this time while
22 future monitoring and additional studies as to the
23 impact of the designation should be studied in order to
24 make the best decision for all concerned. Mahalo.

25 CHAIRPERSON CASE: Thank you.

1 Martha Tumbleson. Jean Gray. Kamalani D.

2 MS. D: Aloha, Commissioners. Thank you for
3 the opportunity for members of the community to voice
4 their opinions, whether in proactively wanting the
5 designation or not. My name is Kamalani, and I am
6 kanaka. I am of this land. Kona is my home.

7 I'm here today to urge the commission to accept
8 the staff's recommendation to deny the designation of
9 the Keauhou Aquifer. There are hugely adverse
10 consequences in designating the aquifer for the
11 community and ultimately water access for locals.

12 A result of the designation means no new water
13 permits or water meters will be issued. Existing water
14 permits will be subject to review and need to be
15 reapproved or possibly revoked. So, no new water
16 access means no new development or construction. Even
17 for individuals wanting to build or improve on a single
18 lot, it can become very difficult.

19 So, according to the science, there is not enough
20 water -- or there is enough water to go around and
21 sustain our community. The scientific evidence shows
22 that the quality of water and quantity of water is in
23 no way endangered at this time, based on the
24 commissioners' staff report.

25 From the Natural Energy Laboratory of Hawaii

1 Authority, or NELHA, which neighbors the
2 Kaloko-Honokohau park -- says 32 years of monitoring
3 results. NELHA's monitoring program has no evidence of
4 harmful change to its anchialine pond communities.

5 Community members, residents, and locals are not
6 disconnected or unaffected by this decision.

7 Designating the Keauhou Aquifer is harmful to the
8 people of Kona. Our community, our economy, our
9 housing, and our culture rely on access to this water.

10 According to the research and environmental impact
11 studies done, there's no need for water management area
12 designation at this time. The scientific evidence has
13 determined that none of the eight criteria cited in the
14 HAR statute which the commission must put into
15 consideration have been met. The national park's own
16 studies have concluded that designation of the aquifer
17 is not necessary. The salinity levels are going down,
18 as Peter Young stated.

19 According to the park's own superintendent, she
20 says we do not have any evidence that pumping wells
21 have adversely affected water resources in the park.
22 There are a number of proactive members -- measures and
23 actions that the national parks can implement and
24 continue to do to improve grounds and cultural
25 practices within Kaloko-Honokohau area.

1 The commission's own staff has urged that the
2 designation is not needed, and staff recommends that
3 the national park's petition be denied. So, I urgently
4 plead the commission to please accept the staff's
5 recommendation to not designate the Keauhou Aquifer at
6 this time. Mahalo.

7 MR. BUCK: Thank you very much for your
8 testimony. It's more of a comment. The last three and
9 a half years, I've heard a lot that if somebody's a
10 water management unit, no new permits would be. And
11 that's just wrong. It's important that we don't, kind
12 of, demonize what the Water Code is. Most of Oahu's a
13 water management unit. There's plenty permits. It's
14 not the same process and it might be longer, but to be
15 able to state that, it's just wrong. And it's really
16 important that we respect the Water Code as the
17 (indiscernible).

18 MS. D: Mahalo, Commissioner, but the intent
19 of my statement is to really urge the commission to
20 accept the staff's recommendation to not approve the
21 designation. Mahalo.

22 CHAIRPERSON CASE: Thank you.

23 Henry Giltner. David Honma.

24 MR. HONMA: Good afternoon, Chairperson Case
25 and commission members. My name is Dave Honma, and I

1 have the privilege of serving as a chairman of the
2 board for Hawaii Planning Conference -- Leeward Hawaii
3 Planning Conference here in West Hawaii. It's a member
4 based 501(3) -- 501(c)(3) organization incorporated in
5 1974. Since the inception of our organization, we've
6 been working diligently with both the private and
7 public sector to advocate for sound planning decisions
8 that promote the long-term benefits of the Hawaiian
9 community in general.

10 With regards to the petition, HLPC maintains its
11 opposition submitted -- as submitted by the National
12 Park Service. And while HLPC recognizes and fully
13 supports protecting the natural and cultural resources
14 including, but not limited to, water, we strongly feel
15 there is no strong evidence to indicate the need for
16 this designation at this time, as supported by what Roy
17 mentioned earlier and what Peter mentioned.

18 So, HLPC humbly requests the commission deny the
19 petition and approve the County of Hawaii Water Use and
20 Development Plan Phase 2 update.

21 And just wanted to thank you for the opportunity.

22 CHAIRPERSON CASE: Thank you.

23 MR. HANNAHS: Question. David, how many
24 members (indiscernible) of the land use? How many of
25 your members are -- have joined the watershed

1 partnership (indiscernible)?

2 MR. HONMA: That's a good question. We got
3 72 members, businesses, individuals, in the
4 organization, so I would say at least a third of it.

5 MR. HANNAHS: Good to have that number
6 higher.

7 MR. HONMA: Yeah. Thank you.

8 MR. BUCK: I'm just wondering. The staff had
9 eight recommendations.

10 MR. HONMA: Yes.

11 MR. BUCK: Would you have any problem with
12 that?

13 And I'm curious how your members would react to us
14 encouraging you -- an applicant to install a deep
15 monitoring well within the specific area of concern.

16 Do you sense that's going to be a problem with
17 your members?

18 MR. HONMA: Well, we need to do what's right
19 for the community and -- to protect our natural
20 resources. So, you know, I would probably defer to our
21 board and our members. But, I would feel strongly that
22 what's to the best interest of the public would be okay
23 with the organization. Obviously, it would be okay
24 with the organization, with HLPC.

25 MR. BUCK: Thank you.

1 CHAIRPERSON CASE: Thank you.

2 Alapai Kaulia. Sharon Willeford.

3 MS. WILLEFORD: Aloha. My name is Sharon
4 Willeford. I've lived in Keauhou for 35 years as a
5 dedicated teacher, elementary school, third grade. I
6 try to teach the children to aloha aina, and we all
7 must do that now. It is a critical time, as you've
8 heard.

9 Water is an issue. Water is life. Hopefully,
10 you've all been following what's happening in North
11 Dakota, and that Nestle is selling all of the water out
12 of the lakes and all around.

13 I would like to challenge the fact that it was
14 stated that the Department of Health did not determine
15 that the water was contaminated. I lived in Keauhou
16 adjacent to a golf course where they sprayed over a
17 hundred different chemicals -- herbicides, fungicides,
18 pesticides. I watched the white residue go down the
19 driveway into Keauhou Bay. I was poisoned there,
20 forced to retire, and in bed for two years. It shuts
21 down all your systems, and it's a horrible thing.

22 And we need to really test the water. We need to
23 test for the sewage that's going in the water. I don't
24 know if you folks have anything to do with the ocean,
25 but you are water protectors, I hope.

1 And I'm very concerned for the community. Every
2 well that's drilled, it seems that more homes are
3 built, and the people are foreigners that are coming
4 here. The local people, we can't find affordable
5 rentals because of what's going on here. We are stuck
6 in traffic for hours, but the highway's going north for
7 the rich, the wealthy people.

8 And we need to take care of the local people,
9 especially the Hawaiians. There are so many Hawaiians
10 that are homeless, and they're forced out of Kona.
11 This is their home. This is their place. And we need
12 to be careful not to overdevelop and not to use all the
13 water now.

14 They're saying now these studies are valid, but
15 what about the future? If you drill all the wells you
16 can drill, then all the water's gone and what happens?

17 So, I'm not quite sure about the designation, but
18 I'm quite sure that we need to be careful and protect
19 the water.

20 Thank you so very much.

21 CHAIRPERSON CASE: Thank you.

22 Rick Vollstedt.

23 MR. VOLLSTEDT: Thank you. Rick Vollstedt.
24 I've been following this process for the last couple of
25 years. I've attended several formal meetings

1 discussing the pros and the cons. From what I've heard
2 and read plus staff's analysis that I've also read, I
3 see no logical or scientific reason to designate the
4 Keauhou Aquifer System as a groundwater management
5 area.

6 I live in the Palisades area, and this past year,
7 there have been a number of new homes constructed.
8 Typical purchaser is local, full-time resident.

9 Why?

10 Because they're affordable.

11 There are several condo projects in the planning
12 stages right now that will also be affordable within
13 the next year. And just recently, in the paper,
14 legislation was talking about floating a big bond issue
15 for affordable and low-income housing.

16 We're also seeing a lot of -- or seen a number of
17 large expensive projects currently happening --
18 Kohanaiki, Hokulea, Waikoloa Beaches. Obviously,
19 purchasers will probably not be local, but the
20 construction jobs are for locals, good paying jobs for
21 engineers, contractors, electricians, plumbers, and
22 laborers, plus ongoing jobs needed to support these
23 developments. All this would come to a halt or be
24 severely cut back if a designation goes through. We
25 have a shortage of good paying jobs on the island, and

1 this would only further to exacerbate that issue, which
2 the health of our local economy does not need.

3 On page 2 of my report, something that Peter kind
4 of alluded to, too, was the parks management system of
5 1994 was very clear. Remove all alien vegetation from
6 in and around the ponds. And yet, they showcase their
7 pond in the park surrounded by that Christmas berry
8 tree and invasive species, which is kind of
9 interesting.

10 If you turn to the third page, their neighbor,
11 Kohanaiki, did a cleanup project on their grounds prior
12 to the development and everything, but they cleared
13 away a pond area that was full of vegetation sucking
14 the life bread out of that pond thirty days later
15 (indiscernible). 30 days. Amazing.

16 And then, Hualalai, another neighbor of theirs,
17 has won numerous awards for their stewardship of the
18 land. And I think the protection, really, starts
19 within the park boundaries, and they should take heed
20 of their neighbors and what they've been able to
21 accomplish by eradicating these invasive species. And
22 I think if they did that, they would find that those
23 ponds would come back to full life.

24 Thank you.

25 CHAIRPERSON CASE: Thank you.

1 Mike Druter. Stephen Arnett. Kaleo Manuel.
2 Leimana DaMate.

3 MS. DAMATE: Thank you, Chair. You have my
4 written testimony, and so, I'll stand on that.

5 What I wanted to just bring up is that in all the
6 testimony that I've heard today, nobody has brought up
7 the lineal descendents of Honokohau Iki, the ahupuaa
8 where Kaloko-Honokohau is. When the park became a park
9 in the '80s, there were families that were living there
10 for generations who were displaced.

11 The -- we have so much respect for kupuna, for
12 Mr. Cachola. As I know it now, he has also been
13 selected by our po'o of Moku O Keawe for the Aha Moku
14 to be the Moku representative of Kohala. And nobody
15 would ever question his knowledge of Kohala.

16 When he was talking about the people who founded
17 the park, the Hawaiians who brought this forward, I'm
18 intimately acquainted with most of them. Four of the
19 names he mentioned, two are from Kona. The rest are
20 not. None of them, as far as I know, are actually
21 lineal descendents of Honokohau Iki.

22 So, the point that I'm trying to make is that the
23 traditional practitioners, the descendents, lineal
24 descendents, of that particular place have brought
25 forward their information to the water commission, to

1 the Department of Land and Natural Resources through
2 the Aha Moku system, which is not just an organization
3 but an entity that was created by over 200 kupuna from
4 all eight islands to address and bring forth
5 generational knowledge of each site-specific place in
6 the 46 moku and 606 ahupuaa within the pae'aina. So,
7 the information in my testimony comes directly from the
8 lineal descendents of that place who now tell me that
9 they're forced to go over to Kona Iki to clean that
10 place because that's the closest they can get to their
11 traditional place, Kaloko-Honokohau, now.

12 This is not information that they're willing to
13 come forward in public to talk about, although some of
14 them did say that in the last water commission meeting
15 that was held. So, I was asked to put it into the
16 testimony so it does come forward.

17 The lineal descendents of that place do not
18 support the petition and stand in opposition. They
19 need to have a stronger relationship with the park.
20 They need to have a stronger relationship with the
21 young people who are now there trying to do what's
22 right but do not have the historical generational
23 knowledge that the families have. So, I just wanted to
24 bring that forward.

25 Thank you.

1 CHAIRPERSON CASE: Thank you.

2 Linda Riviere. Charlie Parry. Delania -- can't
3 read the last name. Savannah Lights. Reggie Lee.

4 MR. LEE: Aloha, Commissioners. You know,
5 today, we're here to represent our family. We are born
6 and raised here, and we never left here. We've -- you
7 know, we've visited this whole area, the whole Kekaha
8 area, you know, that belongs to our ohana, and there
9 were just limited families here. And we know who we
10 are, and we know, you know, what we did back then.

11 But, one of the main reasons we're here for is to
12 keep -- my mom just passed away in August, and we're
13 trying to keep her spirits alive to being here. She
14 always was involved in this -- in this process here,
15 and we want to just keep it alive. And one of her --
16 her famous saying back then was, you know, Kekaha area,
17 (speaking in Hawaiian). You know, we come from a
18 darkness. This area was all dark, you know, and now to
19 live there, you need money. And we lived in the
20 darkness back then, and we know what happened here.

21 We don't come from any other place. We don't come
22 from Oahu. We don't come from Kohala. We don't come
23 from any place. And it's not our -- it's not our job
24 to go to these ahupuaas and tell these people what to
25 do, you know, or families from the area, the kanaka

1 maolis from this area. We are from Kekaha area, and we
2 are so protective of what we have. And we know that
3 the water resource is so important to us. We're back
4 in the days where our first water came off the roof,
5 catching it in tall barrels, you know, to feed the
6 hogs, to take a bath, you know, water tanks. And as I
7 look around this room, I see just a handful of people
8 that remember those days, and they were the Kona that
9 we have today.

10 My -- I just want to thank the County. I want to
11 thank the County for being transparent, you know, all
12 the studies that they did, and came out first with all
13 the studies so we could catch up. And, you know, takes
14 us some time to read on it. And they were very
15 transparent in producing all their manao to us and --
16 with their management plans and everything. And we're
17 -- you know, we're able to -- you know, to study it,
18 and we're very confident, you know, that this -- you
19 know, the water will be protected.

20 We -- we've been in this process for couple years.
21 I see some new faces. I see, you know, a lot of old
22 faces. But, I just want to thank everybody that -- and
23 hopefully, we can come to, you know, a compromising
24 decision where we can all work together and make -- and
25 take care of this aquifer, you know. And I just want

1 to thank everybody for their time together. I know
2 it's a long day, and I think it's going to be a longer
3 day, too, you know. Mahalo.

4 CHAIRPERSON CASE: Thank you.

5 Susan Kim. Sharon Diedrichs. Aki Lindstrom.
6 John Kennedy.

7 MR. KENNEDY: Good afternoon. My name is
8 John Kennedy. I've been a resident of the Big Island
9 for about five years. I've been a resident of the
10 planet earth for a little over 50 years.

11 Water's precious. It's my heart's desire that my
12 grandchildren have a sustainable, adequate, affordable
13 supply of water, and it's my heart's desire to see
14 historical sites preserved so they can enjoy the
15 history that they grow up with.

16 Looking at the data, I think there are some valid
17 concerns being raised today with the fishponds and with
18 the -- with the shaft that had the increase in
19 salinity, it's interesting to know that the salinity
20 increased even while pumping decreased.

21 I'm an optimistic kind of guy. I'm very glad to
22 see that our glass is more than half full. 61 percent.
23 That's worst case scenario. I'd like to think it's
24 more like 84 percent full as far as what the aquifer
25 can supply. So, that -- the data really doesn't show

1 that there's a correlation between increased pumping
2 and problems with fishponds.

3 So, I would like to respectfully request that we
4 do not consider designation at this time. Time is also
5 a valuable resource, and so, I would request that we
6 spend our time and efforts and energy in resources that
7 we have working together for a solution. And I think
8 there will be other solutions presented today besides
9 designation, so please do not consider designation at
10 this time.

11 Thank you.

12 CHAIRPERSON CASE: Thank you.

13 Shannon Rudolph.

14 MS. RUDOLPH: Aloha. Thanks for coming to
15 Kona. And first off, I want to say hallelujah for the
16 National Park Service because we would be in big
17 trouble without them.

18 I've been -- I've been a resident -- average
19 resident of Kona, and I have real no academic expertise
20 on water issues. But, I have been interested in Kona
21 water resources, and I have attended many, many water
22 meetings over the past 25 years.

23 It's hard to separate the actual facts from the
24 alternative facts. Past County administrations and
25 water officials. Many rumors and scare tactics are

1 spread throughout the community. Every time there's a
2 water meeting, they say that the water management area
3 designation will stop all water meter permits and the
4 feds are trying to steal our water. But, these
5 alternative facts have proven not to be true on other
6 islands with water management areas.

7 I was shocked at one meeting where the water board
8 was forced to admit they were counting a million
9 gallons of (indiscernible) water. And if water's so
10 plentiful, a water management area should not cause any
11 alarm. The practical and pragmatic provisions only
12 kick in if there's a problem.

13 I strongly support the national park in its
14 petition and hope that you decide this issue very
15 carefully. I also support the constitutional and
16 customary rights of the Native Hawaiian people, and I
17 hope your actions do not lead to costly lawsuits.

18 Thank you.

19 CHAIRPERSON CASE: Thank you.

20 Linda Johnson. Malvina Mikelson. Duke Kamaka.
21 Shani Armbruster. Teri. Dwayne Fong. Nancy Burns.

22 MS. BURNS: Good afternoon. My name is Nancy
23 Burns, and I'm a civil engineer. I've been in Kona,
24 Hawaii, for 27 years, and I live in the ahupuaa of
25 Kaloko Mauka.

1 Anyway, I've heard a lot of interesting
2 conversation. I'm -- I was trained as a hydrologist,
3 and I worked with water resources for 20 -- for 35
4 years. A lot of the statements made by the National
5 Park Service, they were very confusing to me as, I
6 think, Commissioner Pavao, too. And -- for instance, I
7 was -- when they say -- if a million gallons comes out
8 of the ground, it disappears. But, I live in Kona, and
9 I know that most people in Kona have septic systems,
10 and the water goes directly to the ground from your
11 faucet. So, water that's pulled from the high level
12 down at 1,400 feet gets distributed in the shallow
13 aquifer which may reach the basal a lot better than if
14 it didn't get pulled from the -- from the 1,400.

15 So, you question, okay. So, salinity is
16 decreasing.

17 Why? Why is it decreasing? If climate change is
18 causing less rainfall and sea level is rising, how are
19 we getting a decrease in salinity?

20 Well, maybe we're putting more water where those
21 ponds need it, and maybe that's coming from the
22 high-level aquifer. And maybe we're managing a
23 watershed not by ahupuaa but water is pumped across.
24 So, water is coming from the south. The shaft was
25 always in the south, was feeding North Kona for many,

1 many years, and so, the park started out with maybe a
2 net positive on water injected into the ground.

3 These are all things that should be considered if
4 you're talking about a decision based on science. So,
5 I think we need to really dig into the science a little
6 more and see if this petition is science based or not.
7 That was my first thing.

8 And then, the second thing that has bothered me as
9 I sit here and listen is everybody keeps saying, well,
10 manage -- water management area will not create a
11 problem for people wanting a water meter. I disagree.
12 I was at a meeting with the National Park Service, and
13 I asked them pointblank, if this area gets designated,
14 will you file a contested case, and I was told by the
15 National Park Service representatives that are sitting
16 here today that they will have to file a contested case
17 for every single water use. It's what they have to do
18 to protect their resource.

19 So, I don't know how the other islands -- maybe
20 the National Park Services there don't have the same
21 group that we have, but that was the answer that was
22 given to me, and that scares me as far as future
23 generations having to fight the federal government to
24 get a water meter.

25 Anyway, those are my -- that's my input, and thank

1 you for coming to Kona.

2 CHAIRPERSON CASE: Thank you.

3 Anne Harvey. Bo Kahui. Avery Kramer.

4 MR. KAHUI: Good afternoon. Good afternoon
5 again, commissioners. My name is Bo Kahui, and I'm the
6 executive director for Lai Opua 2020 --

7 CHAIRPERSON CASE: Is the microphone on?

8 MR. KAHUI: Test, test. Oh, okay. Here we
9 go. Okay. Start the clock again.

10 CHAIRPERSON CASE: Gosh, forgot to start it.

11 MR. KAHUI: Oh, shucks. Okay. Yeah. For
12 the record, my name is Bo Kahui, and I'm the executive
13 director for Lai Opua 2020. I'm also director for the
14 Villages of Lai Opua Homesteaders Association here, in
15 Kealakehe.

16 We are in support of the staff's recommendation to
17 deny the national park's petition for area management.
18 We take this matter seriously. We believe that the
19 report is not just suspect by Roy. It's not a suspect
20 document that they provided this commission and the
21 public. They worked diligently to provide accurate
22 data that we rely on. I'm taken aback by the national
23 park's analysis that would then say that, you know, the
24 report is suspect.

25 The other thing is that we -- we would request

1 that this commission deny the national park additional
2 four requests to be added on to the staff's
3 recommendation. It's like going -- getting another
4 bite at the apple. We don't think it's fair. We've
5 done and gone through the petition. The commission
6 went through a mitigation process in which they -- in
7 which the national park sought a smaller area
8 management petition, and we were taken aback by that,
9 the community was. So, we are opposing any additional
10 recommendation with respect to what the staff is
11 proposing.

12 We, Lai Opua 2020, the Department of Hawaiian Home
13 Lands, are involved in major home development. Native
14 Hawaiians are at the top of the homeless --
15 homelessness crisis. We have a problem. But, we need
16 to build homes. To do that, we need water. We need to
17 build community facilities. We need water. We need to
18 create economic opportunities for our homesteaders. We
19 need water.

20 So, it's not just, oh, we going designate because
21 we want to take either the Precautionary Principle or
22 some emotional respect to the others in which they want
23 to designate. I applaud those guys, you know, from
24 that perspective.

25 But, the evidence, the data, the information you

1 have before you, and the recommendation by staff is to
2 not -- to deny the petition. Thank you.

3 CHAIRPERSON CASE: Thank you.

4 MR. KAHUI: That was my cue, right?

5 CHAIRPERSON CASE: You're right on, so thank
6 you.

7 Avery Kramer. Okay. Leanora Prince. Cherie
8 Griffore. Ronnie Strickler. George Bennett. Mana
9 Purdy. Janice Palma-Glennie -- sorry.

10 MR. PURDY: Aloha, Chair Case, and members of
11 the Commission on Water Resource Management. My name
12 is Mana Purdy, and I am submitting the written
13 testimony on behalf of the Queen Liliuokalani Trust.
14 And this is in opposition to the National Park Service
15 petition to designate Keauhou as a water management
16 area.

17 I -- I was going to read this testimony, but I
18 think I'm just going to speak to what's on my mind, a
19 couple things that popped up.

20 So, I think it's unfair that some of the staff in
21 the national parks are, I guess, putting the blame on
22 others and pointing fingers for something that may or
23 may not be happening in the national park under their
24 -- under their management. I think there's a lot of
25 really good people, conscious people, up and down this

1 coast that are doing, and have been doing, work for
2 many years, the restoration work to restore the health
3 and balance of their loko ia, their loko waiopai, and
4 the near-shore environment. And we're -- I mean, we're
5 all in this together. We're all trying to accomplish
6 the same thing. But, it's the hana, it's the actual
7 real work, that should be the first step, the first
8 action step, before looking to external sources.

9 But, don't get me wrong. There's a lot of really
10 good people in national parks that are doing really
11 good work right now, and some of those are -- are my
12 friends I've gained really good relationships with in
13 the last year or two. And I think the national parks
14 are doing a really good job in terms of this
15 conservation movement or the efforts that are happening
16 right now. And I like the fact that they're now hiring
17 local brothers and sisters to do the work. I mean, I
18 really appreciate that good work. However, that
19 movement has happened after the petition has been
20 submitted, actually, a couple years after the petition
21 was submitted.

22 And so, I guess, what I'm trying to say is we --
23 we cannot -- we cannot put the blame on other
24 (indiscernible) external sources if we cannot malama
25 our kuleana first.

1 So, I guess, that's all I wanted to say on behalf
2 of the Queen Liliuokalani Trust. We are opposed to
3 national park's petition, and we stand behind the CWRM
4 staff submittal. And we believe that this designation
5 is premature, and if anything were to change, we'd be
6 the first one to reevaluate our land use and our water
7 -- and our water use, as well, because that is our
8 kuleana as stewards of Keahole.

9 So, mahalo for your time. Appreciate the
10 opportunity.

11 MR. BUCK: Sir, a question.

12 CHAIRPERSON CASE: Yes.

13 MR. BUCK: Yeah. Mana, well, it's, you know,
14 divisive -- has been a divisive issue. One reason we
15 ordered in late December in (indiscernible) was trying
16 to give the community a little more time to, kind of --
17 kind of -- what specific actions would you recommend
18 (indiscernible) after whatever ruling we have that we,
19 kind of, heal some of the wounds that this might have
20 (indiscernible) at that point because of the petition?

21 MR. PURDY: Are you speaking directly to
22 natural resource action --

23 MR. BUCK: Just from your position within a
24 Native Hawaiian organization, Queen Liliuokalani Trust,
25 and a member of this community. You know, we are going

1 to make a decision today one way or another, but how
2 does the community begin to heal some of the
3 divisiveness that has occurred?

4 MR. PURDY: That's a -- that's a good
5 question. I honestly just think we need to work
6 together. A lot of the efforts -- I can only speak to
7 what I -- what I do as far as my role in the trust, and
8 that's -- that's malama our aina and what we own. And
9 I feel that a lot of the community groups that have
10 been happening in terms of malamaing Kaloko loko --
11 loko ia, I think that should continue, and I think it
12 should grow. And I think we -- we actually have a loko
13 ia and a loko waiopai network where managers get
14 together, and we discuss strategies on how to manage
15 our resources, what's the challenges, and how we can
16 get together to solve those changes. And I think if
17 that continues and grows in capacity, that we're on our
18 way to solving some of the challenges.

19 MR. HANNAHS: Chair, one more question.

20 Mana, thank you for your testimony.

21 (Indiscernible).

22 What's been -- how have they fared? Are you
23 seeing any increased salinity, or are they degrading?

24 MR. PURDY: So, when I got on board about
25 three and a half years ago, prior to that, there hasn't

1 been any water quality -- formal water quality testing,
2 because back then, the uncles who have been there for
3 30-plus years, they just go. They just do the work.
4 So, since I've got on board, we've done in-house as
5 well as contract Steve Dollar at UH Hilo to do water
6 quality for us. Since then, we haven't seen an
7 increase or decrease, more or less, in the
8 (indiscernible). So, yeah, pretty same, yeah.

9 CHAIRPERSON CASE: Thank you.

10 Janice Palma-Glennie.

11 MS. PALMA-GLENNIE: Aloha, Commissioners. My
12 name is Janice Palma-Glennie. I'm testifying on behalf
13 of the Kona Kai Ea Chapter of Surfrider Foundation.

14 Our members strongly agree that the national
15 park's petition has serious merit and that regulations
16 or designation is a preemptive commonsense tool for
17 managing the resources upon which our group's members
18 and all the people who live in and visit Hawaii Island
19 depend. Fake news is getting a lot of press on the
20 national stage. But, that's not the only place where
21 it can do damage. These days, like with the current
22 designation petition, Goliath tends to use fake news or
23 at a minimum stretch-the-truth news to conquer David,
24 this community, and available avenues for protecting
25 critical and diminishing natural and cultural

1 resources.

2 So, what's the fake news surrounding this
3 petition?

4 First, there's no truth that designation stops
5 development nor that it harmfully slows it down.
6 Second, there's no truth that the County's threat to
7 suspend water meters is related to aquifer designation,
8 as testifiers have continued to say in error. There's
9 no truth that the National Park Service has overreached
10 or hasn't tried hard to work with private and public
11 entities to avoid the need for designation.

12 I sat in the same room for years listening to the
13 County reps say that they're just about to take care of
14 what's been neglected, the issues that led to this
15 petition being filed. Yet, unfortunately and for
16 unclear reasons, that has never happened, including the
17 staff recommendations that have no teeth and exclude
18 public input into the placement of wells as we continue
19 with the County recommendation.

20 CHAIRPERSON CASE: Do you mind slowing down
21 just a little bit --

22 MS. PALMA-GLENNIE: I'm always afraid I'm
23 going to --

24 CHAIRPERSON CASE: No. I'll give you an
25 extra 30 seconds, but she needs to be able to follow

1 what you're saying.

2 MS. PALMA-GLENNIE: Thank you. Sorry.

3 Okay. Fourth, there's no truth that designation
4 will result in federal control of our watershed.
5 National Park Service is clearly petitioning the State
6 to do its job since state waters are under State
7 jurisdiction.

8 Fifth, there's no truth that the Kona community at
9 large is against designation, but many who have heard
10 or read about it are afraid of its ramifications due to
11 the lies that have been spread about it. As a fox and
12 other fake news, just because it's loud and persistent
13 doesn't mean it's true. And I appreciate Commissioner
14 Buck pointing out that same fact regarding the water
15 meters.

16 What is true is that the development in real
17 estate community have made a big deal with false
18 claims, and just like national fake news, they do it to
19 create fear around proposed actions that would, in
20 other more civilized times, like when most of Oahu and
21 large portions of Maui were designated, be welcomed as
22 sensible methods for protecting the water upon which
23 all of us depend for life, culture, and economy.

24 Coastal resources are critically important for all
25 people in Kona and especially members of our

1 organization, and all of us in the web of life depend
2 upon the flow of fresh water. This is a critical time
3 for progressive state governments to protect public
4 trust resources despite the pressure by corporate and
5 other development interests. The current staff
6 submittal appears to ignore the public interest as
7 included in the petition as it contains no teeth and no
8 room for public input. And it tries to make this an
9 issue just about the park, but it's about all of us.

10 To close, we feel that denying the petition at
11 this time will increase already significant disputes
12 over water in Keauhou, not to mention foot dragging and
13 avoiding a sensible and legally viable way to protect
14 our region's waters for the future.

15 The commission should not vote to deny the
16 petition today but should hold a formal public hearing
17 and develop new findings of fact as a basis of their
18 decision. And (indiscernible) include the four
19 compromised suggestions presented by the park to avoid
20 designation while still securing safety of our public
21 trust resources in a way that acknowledges our
22 community's needs, not just those of developers.

23 Mahalo for your time.

24 CHAIRPERSON CASE: Thank you.

25 MR. PAVAO: Question.

1 CHAIRPERSON CASE: Yeah.

2 MR. PAVAO: In your mind, what good does
3 designation do?

4 MS. PALMA-GLENNIE: I think designation
5 provides a layer of public input that is otherwise
6 lacking in the permitting of wells on private lands. I
7 think that's one (indiscernible) I am not an expert,
8 but that's the thing that I feel is very important.

9 I feel like it also encourages the State to do --
10 do its kuleana, which is to take care of state's
11 waters. And I believe that is their kuleana, and so, I
12 do believe this designation is wise. And I feel that
13 it's been a helpful thing for the other islands where
14 there is designation. I don't see it being harmful.

15 And I just feel that the public has an inherent
16 distrust of how things are going as far as protecting
17 our public -- our natural resources. In every survey
18 and everything I've worked in and everything I've seen,
19 the public is very concerned -- conservation of our
20 natural resources is their top priority which, of
21 course, they understand is part of their economic
22 security and our quality of life as -- and -- and very
23 important, if not most important, is protecting the
24 culture of our islands, which depends upon
25 (indiscernible) natural resources.

1 MR. PAVAO: It seems that the public referred
2 to -- more people than not that come here is in favor
3 of it, so I was just kind of wondering about what you
4 think good will come out of it.

5 MS. PALMA-GLENNIE: Well, I think,
6 Commissioner Pavao, that the people that come here to
7 testify, if you asked where a lot of them worked, a lot
8 of them work in the real estate development industry.
9 And other than that, I respect those people. There's a
10 good -- you know, a lot of good people. They can be my
11 friends. But, at the same time, a lot of the regular
12 public -- I'm here representing at least 150 people.
13 They're working people. A lo of them are parents.
14 They couldn't -- I mean, it was so unbelievably awesome
15 that there were people here today with their keiki.
16 That's how committed they were to being here and
17 protecting their island an our resources. But, a lot
18 of people just can't do that. And, you know, I don't
19 blame any of them for not being here.

20 And the other thing is I think that there's been a
21 lot of misinformation spread, as my testimony said,
22 about what this designation would do. And I think that
23 has just seeped into the community, and I think a lot
24 of people are just -- I think that they're just sick of
25 politics and political things, and they feel they have

1 no power.

2 So, I applaud everyone who's here today, but I
3 think that you should take the testimony -- I don't
4 think that you can say, well, the people sitting in
5 this room are exactly what the community represents. I
6 think that the facts are really important, and I've
7 listened to all the facts. And I think if other people
8 in the community have had the opportunity to listen,
9 they would hear that the National Park Service is not
10 out to do anything except for protect the natural
11 resources which you and I, all of us, own and care
12 about.

13 CHAIRPERSON CASE: Thank you.

14 MS. PALMA-GLENNIE: Aloha. Thanks very much
15 for spending so much time with us here.

16 CHAIRPERSON CASE: Abel. Lindsey Kramer.
17 Thomas Yeh.

18 MR. YEH: Aloha, Madame Chair and members of
19 the commission. I have submitted written testimony
20 previously. We do represent one of the owners of
21 property that is mauka of the park that has 1,400 units
22 of water. It and its predecessors have already
23 developed and provided a substantial investment in this
24 area in the way of Hina Lani Street, a water well
25 development at Holualoa that the -- worked with the

1 County with, developed a 1 million gallon reservoir.

2 So, we talked about investment-based
3 decisionmaking and reliance that can be undertaken on
4 that kind of entitlement. There is a level of
5 uncertainty that exists with respect to this current
6 proceeding.

7 In looking at, and listening to, the staff's
8 recommendation, which we fully support, and listening
9 to the National Park Service's presentation, I did have
10 some comments or questions about some of the staff's
11 recommendations only with respect to, I believe, No. 7.
12 And I think it's pretty clear that, you know, with
13 additional studies and modeling, we'll get a better
14 idea to where a take of water can be, for instance.
15 So, No. 7, when it talks about the commission will
16 commence public informational meetings when a certain
17 threshold is met, I think that question is really going
18 to be dependent on what the models that are upcoming
19 are going to be able to establish. So, I think it
20 probably better to say may, because then you're not --
21 you're taking away some of those assumptions
22 themselves.

23 With respect to the National Park Service's
24 recommendations, you know, I do agree that currently,
25 under the current statute and regulatory framework,

1 when a well permit is issued, it doesn't call for a
2 public hearing or contested case in that context.
3 Based on National Park Service's trying to accomplish
4 what denial of a designation would, the National Park
5 Service also recommended that -- or is requesting the
6 commission issue findings of fact. I looked at the
7 statute while this testimony was occurring, and under
8 174C-42, they only require a public hearing or findings
9 of fact once a determination is made -- been made to
10 proceed to a public hearing.

11 So, based on the record today, I think there's
12 very clear, substantial, reliable, and probative
13 evidence that would support this commission's denial of
14 the petition as is. There's plenty on the record to
15 sustain that. I don't think you need to go through
16 this findings of fact process. You've got clear record
17 that exists at this point in time that would support --
18 support that.

19 Let's not talk about triggers. There are plenty
20 of tools that are available to you. We have staff
21 that's going to be monitoring well -- well production.
22 We have the Water Use and Development Plan that the
23 County submitted that you've approved. There's plenty
24 of stuff along the way that allows you to continue to
25 monitor and regulate the take of water in the aquifer.

1 Some of the calculation that I did -- even to get to
2 APU, it would be 38 years from now.

3 The end thing that I want to say is that, look,
4 the sky is not falling. You've got plenty of tools in
5 front of you and plenty of public input. Thank you.

6 CHAIRPERSON CASE: Thank you.

7 MR. HANNAHS: Question.

8 MR. YEH: Yes.

9 MR. HANNAHS: So, you're representing a
10 client who's a landowner developer?

11 MR. YEH: Yes.

12 MR. HANNAHS: Are they members of the
13 watershed partnership?

14 MR. YEH: Not at this time. They recently
15 acquired it. Basically, they took it over because of
16 financial issues from the previous owner. But,
17 certainly, something I would recommend -- one of the
18 other things that we did raise in our letter is when we
19 look at planning policies and things like plan
20 approval, one thing that really wasn't mentioned was
21 landscaping. We talked about irrigation and recharge
22 and what water goes back in the ground. Let's talk
23 about using native landscaping in the area that your
24 development is. That would probably reduce --
25 substantially reduce water input.

1 MR. HANNAHS: Appreciate you being here.
2 Appreciate that kind of counsel to your client, because
3 that's going to help a lot --

4 MR. YEH: Thank you.

5 MR. HANNAHS: -- creating a culture, you
6 know, not only the landowner's role to being in
7 watershed partnership of -- with the 1,400 unit owners
8 becoming part of that culture of conservation and
9 understanding that they draw a perpetual benefit from a
10 watershed that they should be investing in and
11 protecting.

12 MR. YEH: Right. And one of the other
13 portions of the public trust concept is, of course, we
14 mentioned that we're developing at least 80 affordable
15 housing units along with multiple-family residential,
16 which does tend to be more affordable in that context.
17 So, this public trust action is for everybody.

18 MR. BUCK: Chairman, just a comment. Folks,
19 you know, the watershed partnerships are nonregulatory,
20 voluntary agreements among landowners that are
21 interested in protecting the source water supply,
22 completely nonregulatory. People can join and it is
23 voluntary. There are no dues. But, people are asking
24 people to kind of -- to hui up and take care of the
25 mauka lands. So, that's just for people -- we keep

1 referring to watershed partnerships.

2 MR. YEH: Thank you.

3 CHAIRPERSON CASE: Thank you.

4 Alex Leonard.

5 MR. LEONARD: Aloha, Commissioners. I don't
6 have any written testimony today. Hadn't thought I
7 would speak today. But, I felt it important. I
8 thought, perhaps, valuable to you, too, to point out
9 some -- some observations that I've made today.

10 And I have been following this proceedings for,
11 you know, quite some time. And in my training as a
12 scientist, I try to be very critical of the facts that
13 are presented, and I think that you've been presented
14 with some information that maybe needs to be clarified
15 somewhat. I believe that in the absence of a smoking
16 gun with respect to effects -- direct effects on
17 salinity by water withdrawals mauka, I believe the
18 National Park Service is asking you to add -- or pay
19 particular attention to the potential effects on
20 endangered species and, in particular, the damselfly.

21 The science that they have presented to you has --
22 they've presented to you as peer reviewed, and they've
23 asked you to place particular stress on the fact that
24 it's peer reviewed by comparison to other studies and
25 reports that you have seen. The fact of the matter is

1 that that science, that report, is actually a master's
2 thesis by a young lady that -- you know, she was from
3 the University of Hawaii Hilo in 2010. It was never
4 published in the peer review journal. And I believe
5 that most of my science colleagues would agree that a
6 master's thesis would not qualify for the designation
7 of peer review. And I think it's important that you
8 realize -- that you understand that when one looks at
9 the facts behind that study, it's -- the data are based
10 on an analysis of the project of exactly 10
11 damselflies, not hundreds, not thousands, but a project
12 of 10 damselflies that were collected over three
13 separate collection trips, not hundreds of collection
14 trips. These were collected in one particular area.

15 I'm not saying that the science is bad. I'm just
16 saying it's very limited, and I think that it does not
17 necessarily point in -- in the direction at least as
18 strongly as these -- as the results that are presented
19 would have us -- would have us go.

20 That said, there are couple of other observations
21 that I'd like to -- that I'd like to bring forward
22 since I -- since I am here. The recommendation by the
23 National Park Service of alternatives to designation
24 that, perhaps, we place upon the petitioner the onus of
25 demonstrating the effect or no effect of water

1 withdrawals on cultural, traditional practices makai of
2 a well or on water seepage into the near-shore --
3 near-shore environment. I believe that this is not
4 appropriate. I believe it's technically not feasible
5 at this point in time, and I think it really does not
6 -- although it sounds good, I don't think that it
7 really gives us an opportunity to make a fair
8 evaluation, because right now, the fact of the matter
9 is that the science can't tell us what's happening to
10 the entire recharge mauka as it flows through -- flows
11 into the -- into basal water lens.

12 How is it -- how would we possibly use those same
13 models to predict how a million gallons per day would
14 flow through or the withdrawal of simply a million
15 gallons would flow through the aquifer?

16 We have -- we don't have the information to make
17 those evaluations, so putting that onus on the
18 petitioner, all we're doing -- all we would be doing is
19 asking them to bring their experts forward to argue
20 with experts on other side, and we'd be going around in
21 circles. I don't think it solves the problem.

22 Lastly, I do believe that we do need more data in
23 order to solve this -- to answer these questions and to
24 approach this from a logical and well reasoned
25 perspective. And so, I do support the idea of

1 collecting more information. Particularly, I believe
2 the use of deep water monitoring wells is particularly
3 appropriate. However, I don't believe that that is,
4 again, the kuleana of a well developer. I believe it's
5 the kuleana of the State, because it's the State's
6 kuleana to -- to manage the resources. And I think
7 that asking -- asking private developers to do that
8 would just -- would be inappropriate.

9 That's what I have.

10 CHAIRPERSON CASE: Thank you.

11 Riley Smith.

12 MR. SMITH: Aloha, Chair Case, members of the
13 water commission. Thank you very much for coming to
14 our island to listen to our manao about the issue that
15 directly affects us. Each of you should have a copy of
16 my testimony. I'm going to try to highlight components
17 of it.

18 As included in there, I'm the president of Lanihau
19 Properties. We manage 10,000 acres on Palani Ranch in
20 North Kona. We used to own the ahupuaa of Honokohau,
21 the entire ahupuaa, the portion that ended up being
22 purchased by the federal government for the Honokohau
23 part of Kaloko-Honokohau National Park. Our family
24 business has been around for 165 years. We take our
25 responsibilities very seriously.

1 I ask that you take Roy's report, the staff report
2 -- take it seriously. They put a lot of work into it.
3 They've listened to a lot of the members of the
4 community. I think their eight conditions that are
5 included in there are appropriate. I do not think that
6 the four national park additional conditions are
7 appropriate for the many reasons that were stated
8 earlier.

9 One of the reasons I ask that you deny the
10 petition is that I believe that the National Park
11 Service should focus on the Spirit of Kaloko-Honokohau
12 Report from 1974. Earlier, Fred Cachola talked about
13 that -- he was one of the steering committee members on
14 that report -- all the many things that that report was
15 supposed to focus on. Instead, what the national park
16 does, as Peter's family spoke earlier -- he was quoted
17 in 2014 in saying that many people think the National
18 Park Service, or NPS, stands for the national protest
19 service, because they protest when they don't get their
20 way. They have the resources of the federal government
21 and we don't.

22 If you look at some of the pictures I included in
23 here, one of the goals of the spirit report was to
24 develop a cultural and educational live-in center.
25 When Nainoa Perry and Isaac Harp, members of Makani

1 Hou, approached the Greenwell family to ask if they
2 could source ohia logs to build this hale at the
3 national park, we cooperated with them. We thought it
4 was appropriate that the ohia logs that would be used
5 in the ahupuaa of Honokohau originated from the mauka
6 lands in Honokohau.

7 So, we collected about 100 logs. Some of them you
8 can see in the pictures. They're probably 40, 50 feet
9 long. We harvest them by hand. We haul them down to
10 the park. Built the hale. Hale was finished in 2013.
11 It's been sitting since that time unused. It still has
12 an orange fence around it.

13 Makani Hou -- I'm surprised that Fred Cachola
14 didn't mention this in his testimony. Makani Hou,
15 because of their frustration not being able to utilize
16 this hale as part of the first step of the cultural
17 learning center, has asked the superintendent to
18 dismantle the hale, provide the materials back to them,
19 and they're going to rebuild it on Kamehameha Schools'
20 land in Keauhou in a cooperative project with the Royal
21 Order of Kamehameha.

22 So, again, I ask you to do the right thing. Help
23 the community give the message to National Park Service
24 to do what they said they were going to do when they
25 purchased that land in the 1980s, and continue the loko

1 ia projects that they're doing. But, more importantly,
2 support our (indiscernible) culture in this community.

3 Thank you very much.

4 CHAIRPERSON CASE: Thank you.

5 MR. HANNAHS: Quick question.

6 MR. SMITH: Yes.

7 MR. HANNAHS: Has Palani moved up all the
8 cattle from the (indiscernible) land? In the old days,
9 that's where -- ranching occurred, but it's now pretty
10 much being deemed a watershed purpose.

11 MR. SMITH: You may have a thousand other
12 spots. They're primarily in mauka lands. As you know
13 from your time at Kamehameha Schools, it's really a
14 matter of resource -- resources you have. So, when we
15 have feed, we graze. When we have water, that's when
16 we rotate our cattle. Modern animal husbandry, you
17 rotate your animals often so that you get the prime
18 growth spurt of your pasture grasses. So, more fences
19 allow us more management control to move our cattle.
20 But, most of them are primarily in the mauka area
21 because that's where all the feed and the water
22 resources that we retain in our catchments are.

23 MR. HANNAHS: You think it's impaired the
24 watershed at all?

25 MR. SMITH: I think it's helping it. We've

1 got three fairly large water catchments. Anybody
2 that's grown up in Kona knows how precious water is.
3 When you get it, you save it. Reggie talked earlier
4 about living on catchment, and you only use what you
5 have. So, when we have water, we've got -- our largest
6 catchment is about million and a half. We take that
7 water when it rains, and we save it. And then, we
8 utilize it for our cattle.

9 Thank you.

10 CHAIRPERSON CASE: Thank you. I think I
11 called Gretchen Osgood.

12 MS. OSGOOD: Good afternoon, Commissioners.
13 Thank you for hearing us today. Sorry it took so long.

14 My name is Gretchen Osgood. I'm a Realtor here,
15 in Kona. I write for West Hawaii Today as a real
16 estate writer to real estate experts on economics in
17 Kona and the viability of housing.

18 I'm here to talk to you today about how less
19 housing impacts the ability of local residents and
20 their children to buy and rent and stay in Kona. I've
21 been here 27 years. I raised five stepchildren here.
22 One owns a house. The other four do not because they
23 can't afford it. Rent is astronomical. House prices
24 are exceptionally high. They've actually surpassed
25 where we were in 2004, and we're not even selling that

1 many because there's not very many available.

2 Kona has a limited inventory of affordable housing
3 hence a lot of the homeless population issues we're
4 here hearing. And if we put a restriction on being
5 able to build in Kona affordable, luxury, mid range,
6 we're going to end up with more housing problems. The
7 people aren't going to go away.

8 The U.S. Census Bureau says between North Kona and
9 South Kohala, we're going to add 10,000 people in ten
10 years. The last U.S. census. These people need water.
11 These people are not necessarily newcomers to the
12 island. These are people that are having children, and
13 their children are increasing the populations, or their
14 grandparents are moving over to live with them to help
15 them raise their children. This is a natural increase
16 in our population.

17 Most of the guests we have here only stay a short
18 time and turn their units into an economic generator
19 for our island. They buy things. They rent their
20 properties. They pay GET and TAT tax. That cycle of
21 life on the other side is what feeds taking care of our
22 state and county parks. It's what feeds our education
23 system in Kona and the state. We need housing to
24 continue to be able to house those who want to stay
25 here for the next generation.

1 And I don't think this small section of how the
2 water decision is made has been clearly looked at.
3 It's been looked at in scientific terms. It's been
4 looked at in natural Hawaiian practices. It hasn't
5 been looked at, at how it's going to affect the next
6 generation.

7 I sat here for probably several hours today and
8 listened to testimony and listened to people talk about
9 how it's going to affect their children. Well, it can
10 only affect their children if they house their
11 children. If they can't house their children, they're
12 going to go live somewhere else. We have the lowest
13 priced real estate in all of Hawaii. Let's keep it
14 that way.

15 Thank you.

16 CHAIRPERSON CASE: I have one question.

17 Do you at least agree that water is one of the
18 limiting factors, ultimately, in how many houses we can
19 build in certain areas?

20 MS. OSGOOD: Actually, the current price
21 increase in Kona can be tied almost directly back to
22 the lack of building in the last five years. As the
23 economy has turned up, none of the developers are
24 breaking ground because they know they can't get water.
25 Everybody's been waiting for this decision.

1 CHAIRPERSON CASE: Right. But, I mean, at
2 some point, in a dry area, there are some limits on how
3 much -- how much -- how much you can build --

4 MS. OSGOOD: Agree.

5 CHAIRPERSON CASE: -- because of water
6 supply.

7 MS. OSGOOD: I agree. And I think several of
8 the testifiers talked about changing how we use water
9 in Kona. And I'm a big proponent of how we use water.
10 We have a recycling facility down in Kealakehe that has
11 never been made fully operational to use purple -- you
12 know, purple pipe water, recycled water, for landscape
13 irrigation. And I think there's a whole 'nother way to
14 look at our water issues rather than constraining just
15 the well. We need to look at the bigger picture and, I
16 think, as a community, we have failed to map our way as
17 to what that all looks like.

18 And stopping it -- the lack of new development in
19 Kona in the last few years is dramatic compared to just
20 before the big uptick. We have roughly 800 houses and
21 condos built before 2007, roughly from about 2001 to
22 about 2007. There was 800 houses and condos built and
23 new development. You could see them, not just one-off
24 houses here and there.

25 We've had none of that this time, except for

1 Hualani Estates finishing their project. Other than
2 that, we haven't had any developments break ground.
3 And we have seen a dramatic price increase in our
4 housing and in our rental rates, which are -- I would
5 say they're up at least 30, 40 percent at this point.
6 I have a small property management company. It's
7 outrageous.

8 CHAIRPERSON CASE: I mean, I appreciate you
9 looking at it from the housing supply angle, which is
10 important. And I think one of the things that's been
11 driving this process is -- has been in the past -- the
12 sense that there wasn't a close tie in the planning
13 process between planning for development and keeping an
14 eye on water --

15 MS. OSGOOD: There used to be. I actually
16 used to work for developers. That's what I did when I
17 first got here 27 years ago. I helped build Hualalai
18 Resort. Was at Hokulia.

19 And Nancy Burns, who testified, she's a fabulous
20 engineer, which she didn't tell you. She's actually
21 one of our top engineers here.

22 CHAIRPERSON CASE: I'm not talking about the
23 public planning process.

24 MS. OSGOOD: Right. But, in that process, in
25 that development process, we were required to show

1 where the water was going to come from, how we were
2 going to do the water, what that was going to look like
3 in wells that we dug and drilled. And all of that was
4 part of the process for us. And I don't understand how
5 it's not part of the planning process now.

6 If one of our developers wants to go build a condo
7 project and he has the water commitment rights that
8 went with the land, he should be able to develop it.
9 That was the promise that was made when they got the
10 land. Now, they're concerned that that promise won't
11 be kept, so they're failing to build in Kona.

12 And we've artificially jacked up our prices to
13 where nobody here locally can afford it, unless they're
14 making a hundred thousand dollars a year combined
15 income. That's a lot of money to be able to buy a
16 half-million-dollar house, which is the average price
17 at things listed under a million. If you take that
18 million-dollar cap off, the average price of a home in
19 Kona goes up to \$800,000.

20 So, to afford a house here, we've got to get it
21 down. Real estate is supply and demand. If we don't
22 have enough supply, our prices go through the roof,
23 which is exactly what they've just done, because we
24 can't get any developers to build because everyone's
25 afraid of what the decision is going to be from this

1 committee and that they're going to lose their ability
2 to be able to get water permits in a timely fashion as
3 they break ground.

4 CHAIRPERSON CASE: Okay. Thank you.

5 David Raikow.

6 MR. RAIKOW: Hello. My name is Dave Raikow.
7 I'm an employee of the National Park Service, but I'm
8 not here in any kind of official capacity. I'm only
9 here as a concerned citizen and resident of the island.

10 You know, America's been designating national
11 parks for over a hundred years. And at the time, it
12 made sense. You find something you want to preserve,
13 some kind of character that defines what America is, we
14 draw a line around it on a map and we call it
15 protected. But, we know that these ecosystems exist
16 imbedded within a larger context here in the watershed
17 and the movement of groundwater. So, it's up to the
18 community and local governments to -- if they share any
19 of the values that are (indiscernible) in the national
20 park -- at least some protection in order to maintain
21 the values therein.

22 Secondly, any evidence that's provided that shows
23 that we currently have a development and multiple use
24 within this watershed but we also cannot currently see
25 any impact only speak to current conditions, only speak

1 to the status quo. And we're not talking about that.
2 We're talking about the future.

3 And this leads to my last point, which is if you
4 deny the petition, you are hamstringing yourselves and
5 hamstringing future government's tools that would allow
6 fine scaled adjustments to be made to land use and land
7 management plans. Thank you very much.

8 CHAIRPERSON CASE: Thank you.

9 We went through the list of everyone who had
10 signed up, so who else would like to testify who hasn't
11 already testified?

12 Wait. You already testified, didn't you?

13 MR. OKAMOTO: No.

14 CHAIRPERSON CASE: You didn't testify?

15 MR. OKAMOTO: Not on B.2.

16 CHAIRPERSON CASE: Oh, sorry. Okay. Go
17 ahead.

18 MR. OKAMOTO: And I was kind of wondering
19 because I thought I signed up first. But, anyway,
20 you're saving the best for last, right?

21 CHAIRPERSON CASE: My mistake.

22 MR. OKAMOTO: Oh, no problem, no problem.
23 Yeah. So, thank you, Chair Case. Sorry I didn't
24 formally welcome you folks to our island earlier, but I
25 had good morning. Cross that out. Put good afternoon.

1 Might cross that out and put good evening.

2 But, anyway, so Keith Okamoto, manager and chief
3 engineer, Department of Water Supply. Again, this is
4 regarding B.2.

5 First off, I want to say totally respect the
6 national park. We understand their mission. We're not
7 opposed to the national park. We're in disagreement on
8 their method and means as far as the designation of the
9 Keauhou Aquifer, but we understand the mission. We
10 understand they have a job to do. We have a job to do.
11 So, I wanted to get that stated for the record.

12 Also wanted to thank Deputy Director Pearson,
13 senior staff members Roy Hardy and Lenore Ohye,
14 because, you know, they've been doing this for over
15 three decades each. You know, we trust them. We trust
16 that they're looking out for the best interest of the
17 resources of the State. We trust them as our
18 regulators to work collaboratively with us -- wow, that
19 was fast.

20 CHAIRPERSON CASE: That's not you.

21 MR. OKAMOTO: Oh. -- to make sure that the
22 resources are protected for perpetuity. And that's our
23 commitment, like the mayor, Harry, said earlier. This
24 County is committed. Our previous administration
25 expressed the same thing, and hopefully, our actions

1 with our Water Use and Development Plan and the things
2 we've done thus far indicate our level of commitment to
3 preserving and doing our parts as stewards for this
4 resource, as well.

5 I do want to clarify. And, you know, part of the
6 fault can be a test -- attributed to me on some of the
7 concerns, because my understanding is if there is
8 designation and each well has to undergo a water use
9 permit, my understanding is that no new wells can be
10 turned into production wells until those existing water
11 use permits are finalized, and the allocations of each
12 are then given to the well owners by the commission.

13 So, our concern with, you know, our adoption of
14 the Water Use and Development Plan, we hope that -- you
15 know, it's a good start. I know it's not perfect but
16 committed to -- to moving in the right direction -- is
17 that designation or even possible additional
18 requirements that might have been proposed that
19 essentially become designation without going through
20 the process is -- something we want to caution this
21 body on, also, is you don't want to call it a trigger
22 when it's actually a designation and open to contested
23 case hearings. And basically, we're not going to be
24 able to drill those wells down south that we'd like to
25 and help preserve the health of this aquifer, which

1 means we'll have to go back and rely more heavily on
2 the basal sources again. So, that's one thing that I
3 wanted to bring to light and caution a possibility on.

4 Anyway, so in summary, we concur with the staff's
5 conclusions and recommendations including all the eight
6 recommended actions. We did have concerns about No. 7,
7 but bottom line, all that does is keeps us accountable.
8 Basically, it says if we don't abide by our own plan,
9 we're going to bring this back for public hearing. And
10 we're fine with that. We're fine with that. That
11 means we got to do what we say we're going to do, and
12 that's what we intend to do.

13 So, again, I wanted to just express that we are
14 committed. We live here. We grew up here. We have
15 families here, also, and we want to make sure that this
16 resource here is available for everybody seven
17 generations, ten generations down the road.

18 So, thank you.

19 CHAIRPERSON CASE: Sir.

20 MR. SWEET: Thanks for giving me the
21 opportunity to speak. My name is Ian Sweet (phonetic),
22 and you can guess by my accent I'm not from here. I am
23 a future resident of Hawaii because of my wife.

24 The first thing I thought of when I thought about
25 coming to Hawaii was your natural resource. You're in

1 the middle of the Pacific Ocean. You're talking about
2 fresh water. You're surrounded by salt water. I would
3 have thought a lot of resources of this state would be
4 going into desalination plants. I know they're
5 expensive. I came here first in 1988. I'm in the
6 television business. I was filming the Ironman and
7 discovered there's a Japanese company out in the lab,
8 the natural energy lab, bottling your -- bottling your
9 salt water, changing it into fresh water, exporting it
10 to Japan. I think that's incredible.

11 Secondly, there was another company that does have
12 a huge desalination plant in the natural energy lab.

13 And thirdly, pine trees -- now, konohiki, I think,
14 you call it. Their deep water well is actually a
15 desalination well.

16 So, people are looking at desalination. Water is
17 a valuable resource, and yeah, keep as much of it as
18 you can, but please look to the future. Someone
19 mentioned 60 years, the fresh water available. Well, I
20 think, now thinking of these babies, or keiki, as the
21 local lady called them, you should be looking to the
22 future.

23 Bring in, finally, a little levity into the
24 situation. I did hear the national parks people. I
25 think they mentioned three species. The damselfly. I

1 know nothing about the damselfly, but they did mention
2 the mullet. The mullet lives in salt water or fresh
3 water, so it doesn't care.

4 Thank you very much.

5 CHAIRPERSON CASE: Thank you.

6 Anyone else who has not testified who wants to
7 testify?

8 Sir, I think you already testified, yeah?

9 MR. KAHUI: I'd like to put on the record
10 some other people that weren't here that had e-mailed
11 me.

12 CHAIRPERSON CASE: Why don't you pass them
13 here, and we'll pass them around.

14 MR. KAHUI: Okay. I was just going to read
15 their names off the record.

16 CHAIRPERSON CASE: Okay.

17 MR. KAHUI: Okay. If I might. Again, Bo
18 Kahui from Lai Opua. We received communication by
19 e-mail from members of our association. Daisy Miller
20 opposed -- supports the commissioner's staff position.
21 And all of these are in support of the staff
22 recommendation to deny the petition. So, Daisy Miller.
23 We have Mr. Karin (phonetic). We have Howard and
24 Camille Kent (phonetic). There is Myron Goshasama
25 (phonetic). Mr. Lyman Newton -- excuse me, Newton

1 Lyman (phonetic). And that's it.

2 Thank you.

3 CHAIRPERSON CASE: Thank you very much.

4 Okay. I think we will close testimony.

5 Need a break?

6 Five-minute break.

7 (A recess was taken from 4:01 p.m.

8 to 4:12 p.m.)

9 CHAIRPERSON CASE: All right. We're going to
10 proceed to decisionmaking on the staff submittal of
11 B.2. I would like -- Mr. Balfour.

12 MR. BALFOUR: I just want to say that the
13 last time, somebody stopped me and asked me if I was a
14 mute, and I said certainly not. On the contrary, you
15 don't really want to get me started. So, everybody
16 else talked, so I'll save the best for last.

17 I want to say that the water -- bring a couple of
18 points up. The Water Code says that there are eight
19 criteria the commission shall consider when deciding
20 whether to designate an area for groundwater
21 management. The eight items, or eight criteria, were
22 well vetted by Mr. Roy Hardy and his crew. I think
23 everybody has complimented him so much that he's just
24 -- he's floating on Cloud 9 with all the accolades.
25 But, anyway, he did an outstanding job on it, so I

1 don't think there's any question there.

2 And then, there's the -- there's the points that
3 -- that they were going to do -- things that they were
4 going to do if designating -- designation was not --
5 was not passed and things that he would do to follow up
6 and make things go smoother and (indiscernible).

7 So, having said that, I would like to make a
8 motion that the designation of the aquifer be denied.

9 MR. PAVAO: Second the motion.

10 CHAIRPERSON CASE: Okay. Discussion.

11 MR. BUCK: Commissioner, would you consider a
12 slight amendment to that motion that -- on the
13 conclusion that the number one, we would add Department
14 of Hawaiian Home Lands as well as the Aha Moku Council
15 as people that the commission will refer all water
16 permits --

17 MR. BALFOUR: I thought that was already
18 decided.

19 MR. BUCK: Well, it's not specifically in.
20 We're making the final decision now. So, I would
21 consider that -- would you consider that a friendly --
22 a friendly amendment to your motion?

23 MR. BALFOUR: Yes.

24 CHAIRPERSON CASE: Any other comments or
25 proposed amendments?

1 MR. BEAMER: I'd like to make some comments.
2 So again, thank you, everybody, for ten years and
3 three-plus years that I've been a part of this.

4 You know, having discussions -- I haven't been a
5 mute, but, you know, there's been some really good
6 discussions with people outside over the course of
7 these last several years. And at least, I'm certainly
8 convinced that this entire process has elevated our
9 understanding of water resource management in Keauhou,
10 very important place that many of us live in, perhaps,
11 our future keiki will live in, and many of us value
12 from multiple perspectives. And so, I thank everyone
13 for that process, even though in hindsight, I wish it
14 may have been smoother and less contentious at times.
15 But, the point is where we're at now and where we're
16 going. So, thank you, everyone, for that.

17 I will be voting against this particular motion on
18 this instance. And I feel it's my duty as a
19 commissioner to really lay out the logic to each of you
20 folks on why I'll be voting against this motion.

21 You know, what we have, in my estimation, is
22 clearly a serious dispute with respect to the use of
23 groundwater resources in Keauhou. Incredibly complex
24 with multiple perspectives and, at times, seriously
25 conflicted science. It's very difficult. As a

1 resident of this island, I -- you know, I want to value
2 and respect multiple opinions -- and I do have
3 perspectives as well as arguments -- at the same time,
4 knowing the fiduciary duty that I have here on the
5 commission, you know, as a commissioner on water
6 resource management and my fiduciary duties to protect
7 the resource.

8 So, you know, in instances where it's very clear
9 -- the Waipoo (phonetic) case, the Palakai case -- in
10 instances where we're lacking clear scientific
11 evidence, we're actually required as a commission to
12 take on the Precautionary Principle and to side on the
13 air of managing resource and perpetuity. I can see how
14 that, from some perspectives, could feel difficult.
15 I'm a scientist myself. I value as much as possible
16 objectivity and certainty. But, it's really the
17 mandate of this commission to do that, to take the
18 Precautionary Principle, when we have issues of serious
19 water disputes and to air on the side of caution for
20 the resource and the protection of public trust and
21 traditional and customary rights.

22 So, I respect all decisions of my fellow
23 commissioners, and, you know, in many ways, I would
24 love to have a unanimous decision because of my respect
25 I'll offer each of you and the complexity of these

1 arguments that we've been a part of the last three-plus
2 years.

3 But, you know, I want to make sure that my
4 comments are on record. And I'll be voting against
5 this particular motion.

6 MR. PAVAO: I guess, I'm the vocal mute, if
7 everybody -- referring to mute. This issue has been
8 going on for three and a half years at considerable
9 expense for everybody, moneys that could be spent
10 probably more beneficial someplace else. But, I think
11 this commission has bent over backwards to take into
12 consideration the issues brought up by the National
13 Park Service.

14 I kind of disagree with my distinguished
15 colleague, Kamana. I think there's been a lot of
16 science put into this. You talk about the anchialine
17 ponds.

18 How many studies has been made?

19 You talk about the salinity. It's proven that
20 it's not an issue. We've had scientists come and tell
21 us the ponds are healthy. There's nothing wrong with
22 the ponds. There's no degradation. I think we've done
23 more than we should, I think, sometimes, although
24 talking to some of the fellow commissioners, I guess,
25 the only beneficial thing came out of three and a half

1 years is that we have a wonderful water use development
2 plan now that can be followed and can be used for many
3 years into the future.

4 But, I think we've done enough. I think enough is
5 enough. I honestly believe that no matter what we come
6 up with, there will be more and more that they want us
7 to do. I think we've done enough. I think it's time
8 to stop the bleeding and get on with the rest of our
9 lives.

10 And for that reason, I'll be voting for the -- for
11 the motion to deny and approve the eight conditions
12 that will guarantee there will be no problems. And I
13 urge my fellow commissioners to vote the same way so we
14 can put this to past. It's been too long, way too
15 long.

16 MR. BEAMER: Just a couple things for me.
17 You know, the findings of fact. Given the process that
18 we've gone through, I would feel a high level of
19 comfort as a commissioner if we had very clearly
20 articulated reasons for our rationale. And that's just
21 my personal. And I completely respect Commissioner
22 Pavao. And there is a case to be made to vote for that
23 in that fashion, so I absolutely respect it.

24 But, for myself, I think, we had clear findings of
25 fact as well as -- you know, at least if -- on some of

1 these issues in terms of protection of the resource,
2 you know, the two parties have agreed to -- where we're
3 at right now, I mean, we have basically one petitioner
4 saying they don't feel like any of these criteria end
5 up with better protection. But, you know, again,
6 that's just my own personal manao. I live on the
7 island. I'm going to look everybody in the eye and
8 smile, and I hope you'll do the same. But, just one
9 small opinion.

10 MR. BUCK: I'll be voting in favor of the
11 motion. Just a couple comments. One is I wouldn't be
12 voting in favor of it if I didn't -- had seen the water
13 use development plan that the County put forward this
14 morning. And I think everyone knows that without the
15 petition of the national park, that plan would not look
16 like it looks like today. So, I want to thank the
17 national park for what they've done.

18 And really, for me, without the other eight -- the
19 eight recommendations, the conditions that we're
20 putting on, I think we're giving the County -- when the
21 Water Code was first established, not every place was a
22 water management area. And there was a lot of
23 (indiscernible) issues (indiscernible) the state and
24 the counties. So, we're giving the County of Hawaii --
25 it's time to walk the walk. You've talked the talk.

1 You've come a long way in three years. We think we
2 have safeguards here. We're denying this petition at
3 this time. That doesn't mean that in the future, if
4 conditions change, that it doesn't.

5 But, to me, if we all can step back a little bit,
6 it's really a celebration of the Water Code that we
7 have. It's the most innovative framework, and it
8 provides a finality to how we deal with issues. They
9 all don't have to be dealt with designation and -- but,
10 you know, I trust the people that live here are going
11 to do the right thing. But, we're watching and we're
12 going to continue to watch. And based on what I've
13 heard and the progress that's been made in the last
14 three years, I'll be voting in favor of this motion.

15 MR. KAWAOKA: Thank you, Chair.

16 First of all, I want to thank all of the hard work
17 and dedication that everybody's put into this thing.
18 Like everything in life, there's no black and white
19 type of matters here. There's a lot of gray. There's
20 no 100 percent information that you can gather. You
21 can always get more, actually. If I can put my other
22 everyday hat on as a regulator, there is no zero risk.
23 You know, I tell my children that all the time.

24 Certainly, in terms of this situation, we have to
25 look to the future, as well, and see that, you know, we

1 do protect the resource that we have, because it's the
2 only resource we have. But, in that respect, we also
3 have to achieve some balance in all of our endeavors in
4 life. Certainly, in terms of this situation, there's a
5 lot on both sides of the matter. Everybody puts up
6 good arguments. That's because they are good
7 arguments.

8 But, certainly, in terms of right now, I'll be
9 voting for the motion as described.

10 Thank you, Chairman.

11 MR. HANNAHS: As the latecomer to this -- the
12 commission -- I just joined in July (indiscernible), I
13 want to thank everybody for indulging my questions to
14 get a lot of background that I didn't have. I
15 recognize a lot of emotion, energy, and effort was
16 spent on getting this to this point today
17 (indiscernible) predecessor board, as the commission,
18 as well as the public. So, thanks for that.

19 I don't care what the science says. Water is an
20 issue. We got to wake up. It is. It's the life of
21 the land. And if -- we're not making any more unless
22 we get it here. And so, that's our job. Pua Kanahale
23 told us as a -- when we were managing labs at
24 Kamehameha Schools, your job is to make it rain --
25 that's all our jobs -- and to hold that rain with the

1 way we landscape. So, I have no doubt that water is a
2 serious issue no matter who's disputing what peer
3 reviewed science. But, I don't see this as an end
4 state, this decision we make today.

5 And by the way, Kamana, you know, I applaud your
6 courage. You stand up, step up for your rights. Your
7 (indiscernible) would be proud. That's the way she
8 rolled, and that's the way the Beamers rolled. And
9 you're going to stand up, and I feel no less affinity.
10 I'll vote in favor of the motion, but I feel no less
11 affinity for a difference in vote (indiscernible)
12 because the values are the same. And I think that's
13 the point.

14 This is not a matter of whether we should take
15 care of the water resource. You know, it's about how.
16 I trust Roy's judgment. Staff says we have the tools.
17 We're going to pay attention to these tools. We can
18 use some additional recommendations. He's given us one
19 how. National Park Service believes they had a
20 different how to do it. We're going to choose one, and
21 we're going to do it, and it's going to work or not
22 work. And then, we're going to come back, and we're
23 going to pay attention and say what are we going to do
24 if it doesn't work as well as we thought. And so, I
25 have that expectation in the vote that it doesn't end

1 here. We then have to monitor the impact of our
2 decision in terms of the vote.

3 Secondly, it's not about a Hawaiian issue,
4 tradition and customary right. It's about a human
5 issue. And we have to -- what I've seen -- I've heard
6 based on the clammer or the discord of earlier meetings
7 is that there's a coming closer together. And we need
8 all of us to come closer together as one whole
9 community in order to take care of the resources, the
10 scarce resources, that we have. We're sending a canoe
11 around the world to carry that message of malama honua.
12 And what's good to see is that we're doing it right
13 here. And I see the casting of this vote and taking
14 this action not as a perfect step, you know, in terms
15 of resource management but as a pulling together of
16 community that was fractured previously. And we're
17 still not perfectly together, and it seems like we've
18 got to keep doing more of that.

19 So, finally, it's not really about regulatory.
20 Policy's not going to solve our problem. We have to --
21 it's -- we have to create a culture of stewardship, a
22 culture of care and malama. And that comes from
23 practice. We got to roll up our sleeves and get to the
24 aina. We have to take care of that aina. That will
25 lead to values, and that will lead to the

1 (indiscernible) and, you know, and where we can start
2 to think about leading a world that's abundant for our
3 children and grandchildren and multiple generations
4 thereafter.

5 So, yeah, not a perfect world, not a perfect body
6 of information to act upon. But, it seems decisive.
7 It seems like we can take a step. And I see in this
8 step many good outcomes.

9 Thank you.

10 CHAIRPERSON CASE: Thank you.

11 You want to go ahead?

12 MR. PAVAO: Yeah. As my fellow commissioner
13 said, this is about water. You're correct, absolutely
14 correct. This is about water. And you also mention
15 that you trust Roy. I trust Roy with my life. I mean,
16 Roy and his staff has been wonderful.

17 And, Roy, don't take advantage of that. But, I
18 trust you.

19 But, by the same token, I trust the Department of
20 Water Supply and the integrity and the fact that I know
21 it will do the right thing. They will not let anything
22 degradate the purity and quantity of our water
23 resources, and I know they will do that. So, I have no
24 problems with that.

25 MR. BEAMER: I just want to be clear with my

1 perspective. It's not an issue of trust with me. I
2 certainly trust Department of Water. You guys are
3 doing an incredible job. You know, our island is so
4 spread out, difficult to connect water resources,
5 limited funding. And so, it's certainly not a matter
6 of trust by any stretch.

7 I certainly trust -- don't quite trust you with my
8 life, Roy, but maybe we can work towards it at some
9 point.

10 But, I want to tremendously applaud our staff and
11 the County, you know, in getting to this process where
12 we're at and putting together an incredible Phase 2
13 water development plan.

14 I guess, I recognize that there seems to be
15 structural barriers that -- short of designation with
16 the tools that we have that I'm not convinced are
17 enabling us to protect the resources, and one of those
18 is that spacing of wells issues for me. I mean, you
19 were clear it's, sort of, outside of your guys'
20 jurisdiction. Short of designation, you know, we
21 can't, sort of, space out the amount of straws that are
22 in one area, and we've already experienced upwelling in
23 one of our wells as a result.

24 So, again, it's a structural issue. It's not
25 trust at all with anyone. And I respect, you know, the

1 real estate development community. We're doing a lot
2 of lead work here. We need homes for residents. And
3 so, it's nothing about trust by any stretch for myself.

4 CHAIRPERSON CASE: Thank you. I guess I have
5 closing remarks. I want to thank everyone so much for
6 hanging in with us on a very long process, and I want
7 to thank very much the National Park Service for
8 bringing these issues to our attention collectively as
9 a community over a long period of time. I don't think
10 we would have nearly the quality of the plan that we
11 have now or the attention to the connection between --
12 between development in Kona and our available water and
13 the impacts of using that water on our natural and
14 cultural resources.

15 I'm going to be voting for the submittal, but I do
16 look at it a little bit. Somebody -- I think somebody
17 said they look at it from makai to mauka, and that's
18 kind of my view of this, because I was born in Hilo and
19 I lived on this island till I was ten. I really feel
20 this is my place, and I spent a lot of time in Kona
21 when I was growing up. I went off to college, and the
22 first year I was in college, the highway was put in
23 here, in Kona, and I cried the whole year. My mother
24 would send me newspaper articles about it, and I just
25 -- I must have just felt what it was going to do to

1 this place that is about incredible anchialine ponds on
2 the coastline and the cultural resources and the open
3 space that is -- we're losing here in Kona which is
4 part of what people love about Kona.

5 And so, I think it's critical to have a very, very
6 clear plan that is tied to our available resources and
7 that we keep a constant eye on that and keep a very
8 careful eye on how -- as we move along in that plan and
9 what we do here, in Kona, that we don't cross -- cross
10 over the line. And so, that's the -- that's the
11 purpose of the -- of the eight conditions. I'm quite
12 comfortable with -- that the criteria are met for
13 designation.

14 When I started in this job, one of the first
15 meetings that I went to early on was one of the
16 meetings here, in Kona. And I was first petrified,
17 really, because it was such a big issue, and I -- you
18 know, I didn't have enough information to really
19 understand, kind of, what the issues were. And I'm
20 very happy that we took our time to carefully listen to
21 everyone and study it and -- because I really do feel
22 comfortable with the decision today because I -- I just
23 -- I think -- I think the National Park Service has
24 absolutely asked the right question. I just think the
25 answer is we're not there yet. And to me, it's a very,

1 very important, kind of, shot across the bow that
2 they've given us and that we should be happy to have,
3 because we need to keep our eye on these questions so
4 that we -- we really protect the Hawaii that we love.

5 So, again, thank you, everyone, for -- for all of
6 your time and thought and for making this process
7 better.

8 So, with that, take a vote. All right. All in
9 favor of the motion as amended. Aye.

10 MR. PAVAO: Aye.

11 MR. BUCK: Aye.

12 MR. BALFOUR: Aye.

13 MR. HANNAHS: Aye.

14 CHAIRPERSON CASE: ~~Opposed~~ Aye.

15 MR. BEAMER: Opposed.

16 CHAIRPERSON CASE: Thank you.

17 So, the motion to adjourn.

18 MR. PAVAO: Motion to adjourn.

19 MR. HANNAHS: Second.

20 CHAIRPERSON CASE: All in favor. Aye.

21 MR. BUCK: Aye.

22 MR. BEAMER: Aye.

23 MR. BALFOUR: Aye.

24 (Proceedings adjourned at 4:35 p.m.)

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C E R T I F I C A T E

I, Paige Christian, C.S.R., in and for the State of Hawaii, do hereby certify:

That I was acting as shorthand reporter in the foregoing matter on the 14th day of February, 2017;

That the proceedings were taken down in computerized machine shorthand by me and were thereafter reduced to print under my supervision; that the foregoing represents, to the best of my ability, a correct transcript of the proceedings had in the foregoing matter;

I further certify that I am not counsel for any of the parties hereto, nor in any way interested in the outcome of the cause named in the caption.

Dated: April 14, 2017

Paige Christian, C.S.R. 426
Registered Professional Reporter
Certified Realtime Reporter