

BEFORE THE  
CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

Douglas and Heidi Cole            )  
and Marble Mountain Ranch        )  
  )  
Stanshaw Creek in Siskiyou        )  
County                                )  
  )  
Public Hearing                        )  
\_\_\_\_\_ )

REGION 5 AUDITORIUM  
CENTRAL VALLEY WATER QUALITY CONTROL BOARD  
11020 SUN CENTER DRIVE, SUITE 200  
RANCHO CORDOVA, CA

Wednesday, November 15, 2017

9:30 A.M.

Volume 3

Pages 1 - 274

Reported by: Peter Petty

APPEARANCES

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

Division of Water Rights

Board Members Present:

Steven Moore, Vice Chair (Hearing Officer)

Hearing Team Members Present:

Lily Weaver, Staff Counsel

Mara Irby, Staff Environmental Scientist

Jean McCue, Staff Engineer

Connie Mitterhofer, Senior Water Resource Control  
Engineer

Jane Farwell-Jensen, Staff Environmental Scientist

Michael Buckman, Hearing Unit Chief

Prosecution Team Members Present:

Kenneth Petruzzelli, Attorney III, Office of Enforcement

Heather Mapes, Attorney I

INTERESTED PARTIES

For Douglas and Heidi Cole, Marble Mountain Ranch (MMR)

Barbara A. Brenner, Partner, Churchwell White, LLP  
Kerry Fuller, Attorney

For California Department of Fish & Wildlife (CDFW)

Stephen Puccini, Senior Staff Counsel  
Nathan Voegeli, Staff Counsel

For Karuk Tribe

Drevet J. Hunt, Attorney, Lawyers for Clean Water

For Old Man River Trust

Konrad Fisher

For National Marine Fisheries Service (NMFS)

Christopher Keifer

APPEARANCES (Cont.)

WITNESSES:

Douglas Taylor Cole, for Douglas and Heidi Cole, Marble Mountain Ranch (MMR)

Witness Panel for National Marine Fishery Service (NMFS)

Shari Whitmore  
Margaret Tauzer

Witness Panel for California Department of Fish and Wildlife (CDFW)

Jennifer Bull  
Caitlin Bean  
Curt Babcock

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P R O C E E D I N G S

9:30 A.M.

RANCHO CORDOVA, CALIFORNIA

WEDNESDAY, NOVEMBER 15, 2017

HEARING OFFICER MOORE: Good morning and welcome back to the Marble Mountain Ranch hearing. Appreciate everyone returning in a prompt manner. I'm Steven Moore, Vice Chair of the State Water Board and the Hearing Officer for this proceeding. I will be assisted by Staff Counsel Lily Weaver, Staff Environmental Scientist Mara Irby, and Staff Engineer Jean McCue. And we also have other Staff assisting us today.

Once again, before we get started, in case you hear a fire alarm or emergency sound, please proceed in an orderly fashion toward the exits to my left, to your right, and we'll meet out in the parking lot before we get the all clear to come back in.

We're broadcasting this hearing on the internet and recording both audio and video.

In addition, a Court Reporter, Peter, is present to prepare a transcript of the proceeding. Anyone who would like an expedited

1 copy of the transcript must make separate  
2 arrangements with the Court Reporter.

3           When you speak, please be sure to use the  
4 microphone so everyone can hear you here in the  
5 room and on the internet.

6           Please take a moment to turn off or mute  
7 your cell phones. Even if you think it's already  
8 off or muted, please double check, and we  
9 appreciate that.

10           Some housekeeping items. Today we'll  
11 resume cross-examination of Marble Mountain  
12 Ranch's remaining witness, Doug Cole, by the  
13 Karuk Tribe. Then we continue with direct  
14 testimony from the National Marine Fishery  
15 Service, California Department of Fish and  
16 Wildlife, and remaining witnesses from the Karuk  
17 Tribe and Old Man River Trust.

18           And a couple of housekeeping items. The  
19 tables that Mr. Cramer discussed on Monday are  
20 now posted and labeled as MMR-22. We have hard  
21 copies, if any of the parties would like them.  
22 Also, we will be posting Staff Exhibit 1, labeled  
23 as SWRCB-1, which was the diagram from Mr.  
24 Anderson with approximate flow measurement  
25 locations, as discussed yesterday.



1           Are there any questions or other  
2 housekeeping items before we continue?

3           Mr. Petruzzelli?

4           MR. PETRUZZELLI: Do we have another hard  
5 stop for time for later today?

6           HEARING OFFICER MOORE: I'm going to  
7 propose a 4:30 stop time today.

8           MR. PETRUZZELLI: Okay. Thank you.

9           HEARING OFFICER MOORE: Yes. So we'll do  
10 our best to be as efficient as possible. Okay.

11          MR. FISHER: One question?

12          HEARING OFFICER MOORE: Yes, Mr. Fisher?

13          MR. FISHER: Am I able to question Mr.  
14 Cole? That was one of the things you said.

15          HEARING OFFICER MOORE: Yes.

16          MR. FISHER: Okay. And then direct  
17 testimony at some point in this process? We  
18 talked about that yesterday.

19          HEARING OFFICER MOORE: Yes.

20          MR. FISHER: Okay. Thanks.

21          HEARING OFFICER MOORE: Okay. Would Mr.  
22 Cole, Ms. Brenner and Mr. Hunt please come back  
23 up? And we have Mr. Hunt up here. And we can  
24 get underway as soon as you're comfortable and  
25 ready to go. Thank you.

1 MR. HUNT: Good morning everyone.

2 Good morning, Mr. Cole.

3 WITNESS COLE: Good morning.

4 DOUGLAS TAYLOR COLE,

5 called as a witness for Marble Mountain Ranch,

6 having been previously duly sworn, was examined

7 and testified as follows:

8 CONTINUED CROSS-EXAMINATION BY

9 MR. HUNT: Do you measure the amount of  
10 water that you divert from your -- at the  
11 diversion point?

12 WITNESS COLE: There's no measuring  
13 device at the diversion point. There is a  
14 measuring device, rudimentary though it is,  
15 further down ditch.

16 MR. HUNT: So at the point of diversion,  
17 you don't have a way of measuring the diversion?

18 WITNESS COLE: It's a rock and rubble  
19 berm. There's no structure in that rock and  
20 rubble berm.

21 MR. HUNT: And the measuring device that  
22 you talked about further down the ditch, what is  
23 that?

24 WITNESS COLE: Hash marks placed on the  
25 side of a retaining culvert that the captured

1 flow passes through so that it acts as a stream  
2 site, the equivalent to what you would see at a  
3 stream measuring station where you have a stadia  
4 rod that has a conversion table attached, to CFS  
5 flows. So I have arbitrary units that I call  
6 Stanshaw units marked on the side of a culvert in  
7 an automotive paint pen. And based on any given  
8 year and the condition of the ditch at that  
9 point, I have the capacity to convert that to a  
10 rough CFS flow. I also have several points along  
11 the ditch line where I routinely measure flows  
12 using a swoofer.

13 MR. HUNT: Have you ever filed with the  
14 State Water Board, made a filing with the State  
15 Water Board stating that you comply with the  
16 diversion measurement regulations?

17 WITNESS COLE: Do you know?

18 MR. HUNT: Are you conferring with your  
19 counsel on the answer to this?

20 WITNESS COLE: I -- a lot of what I do  
21 that's relative to the State Water Board, I refer  
22 to our attorneys. So -- and prior to my engaging  
23 Churchwell White, I filed some annual reports.  
24 Is that what you're referring to?

25 MR. HUNT: I'm just wondering whether you

1 filed anything with the State Water Board stating  
2 that you comply with diversion measurement  
3 regulations?

4 WITNESS COLE: Historically, I've turned  
5 in annual reports that were requested by State  
6 Water Board, asking for summaries of flows in the  
7 ditch line. So on that point, yes.

8 MR. HUNT: But you're not sure whether  
9 those are --

10 WITNESS COLE: I don't know if --

11 MR. HUNT: -- in compliance with --

12 WITNESS COLE: -- those are in compliance  
13 with the regulation that you're citing.

14 MR. HUNT: All right. I'd like to pull  
15 up MMR-11 Exhibit, and we can look at page one.

16 (Document displayed on screen)

17 And in your testimony yesterday, and  
18 written testimony, you indicate that the fire  
19 crews divert up to three CFS for fire  
20 suppression?

21 WITNESS COLE: I did not state that. I  
22 said they divert from the -- from the ditch line,  
23 but the ditch is conveying three CFS. The  
24 capacity at the ditch is three CFS, and so they  
25 withdrew from the ditch for fire suppression.

1           MR. HUNT: Is there any actual  
2 measurement of the amount of water that they're  
3 withdrawing?

4           WITNESS COLE: No.

5           MR. HUNT: So looking here at Exhibit  
6 MMR-11, it -- I can't turn that. Sorry, I was  
7 trying to turn the screen and it didn't work.

8           Looking at this Exhibit MMR-11, which is  
9 a -- it looks like a statement from David Markin,  
10 who is -- who is a -- who is David Markin?

11          WITNESS COLE: David Markin is a --

12          MR. HUNT: Oh, here he is.

13          WITNESS COLE: Yeah.

14          MR. HUNT: The District Fire Management  
15 Officer for the United States --

16          WITNESS COLE: Correct.

17          MR. HUNT: -- Forest Service? And in it,  
18 it says,

19          "As part of those activities, we use water  
20 from the diversion ditch that provides water  
21 to the ranch at its full capacity of three  
22 cubic feet per second."

23          Does this document state that the Forest  
24 Service uses three cubic feet per second from the  
25 ditch for fire suppression service?

1                   WITNESS COLE:  No, that's a  
2  characterization of what the ditch is.  He's  
3  stating that he's diverting water for fire  
4  suppression on a routine basis, and that the  
5  ditch provides a total availability of three  
6  cubic feet per second, which is my position all  
7  along, that that's the capacity -- capacity of  
8  the ditch, of three cubic feet per second.  This  
9  document isn't saying how much they've diverted  
10 out of the ditch at any given time.

11                   MR. HUNT:  Okay.  Thank you.  Do you know  
12 that the United States Forest Service has a  
13 policy of not allowing the filling of fire trucks  
14 from areas that service thermal refugia along the  
15 Klamath River?

16                   WITNESS COLE:  I don't have any knowledge  
17 of any U.S. Forest Service policies on those  
18 points.

19                   MR. HUNT:  Do you know that the United  
20 States Forest Service has a method for using  
21 water from the mainstem of the Klamath River to  
22 fill up the fire trucks in order to avoid using  
23 water from thermal refugia areas?

24                   WITNESS COLE:  I've seen that.

25                   MR. HUNT:  And what is that, that you've

1 seen?

2 WITNESS COLE: Water tenders back up into  
3 the river and pump water directly from the river.

4 MR. HUNT: It's just a little cleanup  
5 item.

6 I'm curious if you can direct us to the  
7 place in your written testimony where you  
8 indicate that you increase -- increased the  
9 capacity of your penstock?

10 WITNESS COLE: I didn't increase the  
11 capacity of my penstock. I've replaced a section  
12 of the penstock, upgraded it. There was a  
13 section that was leaky, but it is not an increase  
14 in capacity.

15 MR. HUNT: Okay. I believe yesterday  
16 during your testimony that you mentioned that  
17 fish end up in the ditch at times?

18 WITNESS COLE: That's correct.

19 MR. HUNT: So those fish that end up in  
20 the ditch, where -- where do they subsequently  
21 end up?

22 WITNESS COLE: They reside -- they --  
23 from my observation, the ditch is used for  
24 habitat, refugia, and especially in the deeper  
25 sections. Especially in the sections that have

1 cover over the top, there are places where I've  
2 got protection over the ditch, and so they'll  
3 reside in areas that -- that is a little bit  
4 deeper than the normal flow of the ditch, and  
5 that there's cover, and that's where they reside.

6 MR. HUNT: And once they're in the ditch,  
7 is there any way for them to get out of the  
8 ditch?

9 WITNESS COLE: They can easily swim back  
10 up. There's no obstructions to an outward flow.

11 MR. HUNT: Would that be the same under  
12 all hydrologic conditions?

13 WITNESS COLE: The ditch is pretty  
14 constant in its flow, based on our best  
15 management practices. And so they could do that  
16 at any given time.

17 MR. HUNT: I'd also like to clarify a  
18 little bit on the cost of alternative electricity  
19 sources from your testimony yesterday. I wasn't  
20 clear, so maybe you can help us.

21 How much are you actually spending on  
22 diesel fuel on an annual basis?

23 WITNESS COLE: I'm going to need to look  
24 at my documents, if that's okay?

25 MR. HUNT: Sure.



1           WITNESS COLE: I have 2016 receipts here.  
2 I don't have a total. I could run that, given  
3 time, five minutes.

4           MR. HUNT: Are these receipts something  
5 that's in the record?

6           WITNESS COLE: I'm not aware that they  
7 are.

8           MR. HUNT: Okay.

9           WITNESS COLE: I can -- I can run down  
10 these numbers, if you'd like.

11          MR. HUNT: And this is just like monthly  
12 numbers --

13          WITNESS COLE: Correct.

14          MR. HUNT: -- for 2016? Sure.

15          WITNESS COLE: In 2016: December 9th,  
16 \$2,781; 11/22, \$2,318; 11/01, \$1,392; 10/06,  
17 \$1,174; 9 of 12; \$1,559; 8 of 30, \$1,818; 8 of  
18 08, \$2,098; 8 of 17, \$1,290; 7 of 20, \$2,173; 6  
19 of 28, \$1,764; 6 of 16, \$1,496. And then my  
20 numbers stop, so I'm going to have to look at the  
21 rest of my --

22          MR. HUNT: Did you --

23          WITNESS COLE: Yeah.

24          MR. HUNT: And this --

25          WITNESS COLE: That's a half a year.

1 MR. HUNT: This is 2016, so this is a  
2 year --

3 WITNESS COLE: That's correct.

4 MR. HUNT: -- where you've indicated you  
5 did not divert water from the stream during --

6 WITNESS COLE: This is correct.

7 MR. HUNT: -- the summer?

8 WITNESS COLE: Right. No water diversion  
9 for hydro -- for hydro plant generation. This is  
10 running the ranch. This is a half-year figure.

11 MR. HUNT: Okay. Do you deduct the  
12 diesel fuel costs from your taxes?

13 WITNESS COLE: They're an operating  
14 expense.

15 MR. HUNT: So does that mean you deduct  
16 them?

17 WITNESS COLE: Yes.

18 MR. HUNT: I have a couple questions  
19 about your wet season diversion management. So  
20 this is Exhibit MMR-1. I think it has a small A  
21 next to it, as well. No. She's -- somebody will  
22 pull it up here. Oh, there it is. For some  
23 reason, when I saved the .pdf, it shows MMR-1a on  
24 my file name. That's my fault.

25 Can we turn to page 11? That's -- there

1 we go. Heading 6. Let's see, I can control  
2 this. All right.

3 Can you -- do you see the third sentence  
4 that begins, "Since;" can you read that for us?

5 WITNESS COLE: I'm not there yet. Are  
6 you able to highlight it?

7 MR. HUNT: Maybe.

8 WITNESS COLE: Okay, I'm there now.

9 MR. HUNT: Okay. Can you read it aloud?

10 WITNESS COLE: "Since I took ownership of  
11 the ranch in 1994, I have been deepening and  
12 improving the diversion ditch by removing  
13 sediment from the ditch bed and placing that  
14 material along the berm for reinforcement.  
15 The maintenance effort has proven to be  
16 successful to avoid erosion and overtopping."

17 MR. HUNT: By deepening the diversion  
18 ditch, have you increased its capacity?

19 WITNESS COLE: The capacity is determined  
20 at the point of diversion by how much I entrain  
21 at the head. The successful conveyance is  
22 dependent on the amount of freeboard and the  
23 stability of the berm. So my efforts in the --  
24 in the body of the ditch line to reinforce the  
25 berm by removing accumulated sediment doesn't

1 affect captured water. It affects the amount of  
2 water that can be safely conveyed without failure  
3 of the berm.

4 MR. HUNT: So how do you know that you  
5 haven't increased the capacity at the point of  
6 diversion? Do you do maintenance activity there?

7 WITNESS COLE: Well, the point of  
8 diversion is an evolutionary thing. It changes  
9 season by season because it's a primitive rock  
10 and rubble berm that evolves from high season --  
11 high flow season through low flow season.

12 So how do I know that I haven't captured  
13 more water than what the ditch can carry?

14 MR. HUNT: No, that's not my question.

15 How do you know you haven't increased the  
16 capacity of the amount of water you can divert?

17 WITNESS COLE: Because in 25 years of  
18 operation the amount of water available at the  
19 downstream sections that are fixed and more  
20 stable has not overtopped. I haven't exceeded  
21 its capacity. The capacity of my hydro plant has  
22 been actually diminished when I improved the  
23 power plant from the larger World War II era  
24 generator. The anecdotal observations, which I  
25 can line out, but primarily based on fixed points

1 in the ditch which have remained the same  
2 historically over two-and-a-half decades.

3 MR. HUNT: But you can't actually measure  
4 the amount of water that's being diverted; is  
5 that correct?

6 WITNESS COLE: I've already answered  
7 that. I can measure it using those points along  
8 the ditch where I have swoofer measurements and  
9 where I have a culvert that's been there for the  
10 25 years I've been there with measurement points  
11 on it.

12 So when we bought the ranch 25 years ago  
13 there was a culvert at a crossing where an access  
14 road goes over the ditch. That culvert is a 24-  
15 inch culvert. It hasn't been replaced. It has a  
16 fixed capacity. I put measurements on it soon  
17 after we arrived at the ranch, and I've watched  
18 how much water flows by that point as an easy,  
19 accessible point to see how much water is in the  
20 ditch. It is an arbitrary unit of measure I call  
21 Stanshaw units, but it is a point -- it's a point  
22 of management that I use to observe how much  
23 water is in the ditch.

24 So improving maintenance -- or conveyance  
25 efficiency, improving stability of the ditch is

1 the goal of what I'm doing. Incidental increase  
2 in conveyance capacity, I don't think is possible  
3 based on work that I'm doing mid-ditch when I  
4 have limiting point of capture, and also limiting  
5 point of consumption in passage at several points  
6 along the ditch.

7 MR. HUNT: At each of those points,  
8 though, there's not an actual measurement of how  
9 many CFS are traveling down the ditch?

10 WITNESS COLE: There is a Stanshaw unit  
11 measurement that I installed when we first moved  
12 there.

13 MR. HUNT: Right. I understand that.

14 WITNESS COLE: Yeah.

15 MR. HUNT: That's not my question.

16 So actual CFS, ability to measure actual  
17 CFS in the ditch --

18 WITNESS COLE: There is the ability --

19 MR. HUNT: -- you don't do that?

20 WITNESS COLE: -- to convert those --

21 MR. HUNT: But you don't do that?

22 WITNESS COLE: -- the Stanshaw unit or do  
23 the swoofer measurements and convert velocity to  
24 flow.

25 MR. HUNT: Yesterday you mentioned that

1 after storms, you go to dig out material from the  
2 ditch?

3 WITNESS COLE: I did mention that.

4 MR. HUNT: And if you failed to do this  
5 in a timely manner after storms, what would  
6 happen?

7 WITNESS COLE: As I mentioned, the ditch  
8 acts as a natural entraining device to capture  
9 sediment normally carried in Stanshaw Creek. So  
10 without removing the debris, the first thing that  
11 happens is the top end of the ditch line, most  
12 close to the point of diversion, will capture the  
13 larger rubble. That remains in place and impedes  
14 the capturing of water into the ditch, so that  
15 the main body of Stanshaw Creek continues  
16 downstream towards the main Klamath. If I don't  
17 go up and clean out the ditch as it fills up, the  
18 ditch becomes occluded and won't capture any  
19 water at all. So not removing sediment is a  
20 maintenance issue if I want to have drinking  
21 water.

22 It's a density gradient, the ditch line,  
23 just like a sluice box would be if you were a  
24 miner. So the larger, denser material gets  
25 entrained at the head of the ditch. The farther

1 downstream you go --

2 MR. HUNT: Yeah. I understand that.

3 We -- and you testified to that yesterday.

4 WITNESS COLE: Okay. So the -- it

5 stops --

6 MR. HUNT: I think you've actually

7 answered.

8 WITNESS COLE: -- the ditch functioning.

9 MR. HUNT: You've actually answered the  
10 question.

11 WITNESS COLE: Okay.

12 MR. HUNT: All right, let's turn to

13 Exhibit WR-83. And these are the notes from the  
14 December 14th, 2017 meeting.

15 Can you explain to me why the Lennihan  
16 Report was prepared?

17 WITNESS COLE: Sure. Earlier attempts to  
18 gain funding to do improvements on the ranch,  
19 such as the 2004 proposal to completely pipe the  
20 ditch and the return flow to the main body of the  
21 Klamath River above the anadromous stretch were  
22 prohibited because funders were under threat of  
23 lawsuit if they funded a project which didn't  
24 have a verified water right.

25 And so there was an effort, in order to



1 enable funding for improvements for physical  
2 solutions that we had to have an independent  
3 third party visit the topic of water rights in  
4 order to enable funders to successfully fund  
5 projects. This was an example of our early on,  
6 ongoing -- and ongoing cooperation with  
7 stakeholders to look for solutions. This, in  
8 fact, failed because at the time when we had this  
9 short window of opportunity to --

10 MR. HUNT: I didn't ask that. I asked --

11 WITNESS COLE: Okay.

12 MR. HUNT: I asked, what was the purpose  
13 of the report? And I think --

14 WITNESS COLE: Yeah. To try to get --

15 MR. HUNT: -- you answered that.

16 WITNESS COLE: Try to get a statement  
17 from an independent, non-vested party in an  
18 analysis of our water right so that we could  
19 obtain funding to find physical solutions.

20 MR. HUNT: Okay. Thank you. And at the  
21 point -- the time that this meeting, had the  
22 State issued an opinion regarding the scope of  
23 your right?

24 WITNESS COLE: I'm not aware that they  
25 had.

1           MR. HUNT: Okay. So if we can go to  
2 Bates 2475 on this exhibit, which I know the  
3 internal pagination number of it? It looks like  
4 it's going to be about the fifth or sixth page.  
5 I can scroll, too. It seems like I have control.  
6 So this is Bates 2475, and we were looking at  
7 this yesterday, also.

8           So there's -- sorry. I don't know if  
9 it's Taro or Taro, my apologies, but he says, "We  
10 can render an opinion, a staff finding in the  
11 matter. That's what we intend to do."

12           So that's, just to be clear, that's what  
13 I just asked, whether the State had -- made an  
14 opinion at that point, and his answer seems to be  
15 that it has. But based on what he's saying here,  
16 it seemed that they hadn't.

17           So just for context, I just want to read  
18 it quickly. Oh, my god. This will work better.

19           HEARING OFFICER MOORE: The Central  
20 Valley Board is already a little grumpy. Try not  
21 to break anything.

22           MR. HUNT: Sorry. I knocked the screen  
23 over again.

24           "The State Water Resources Control Board says  
25 that there's a pending complaint currently.

1 A likely next step would be an investigation  
2 report, as there was in 1998 and 2002. I'd  
3 expect to be able to make findings on whether  
4 there would be an enforcement action. This  
5 would determine the level of pre-1914 right.  
6 Get concerns about Martha's report to the  
7 State Water Resources Control Board now.  
8 Will probably make a report in the next few  
9 months."

10 So what's Martha's report?

11 WITNESS COLE: What is Martha's report?

12 MR. HUNT: Yeah.

13 WITNESS COLE: It's her analysis of the  
14 extent of our pre-1914 water right and whether or  
15 not it was a valid water right at all.

16 MR. HUNT: So is that -- Martha's report  
17 is the Lennihan Report?

18 WITNESS COLE: Martha Lennihan is the  
19 full name, so Martha is Martha Lennihan.

20 MR. HUNT: Okay. Thanks.

21 "Barbara," which I believe is Barbara  
22 Brenner, "did the Water Board not yet have the  
23 opportunity to comment on the report," presumably  
24 referring to Martha's report; would you agree  
25 with that?

1           WITNESS COLE: That sounds like that's  
2 the correct context.

3           MR. HUNT: Right. And then Taro says,  
4 "This is the first time we've had a chance to  
5 look at the report;" again, we're talking about  
6 Martha's report?

7           WITNESS COLE: Uh-huh.

8           MR. HUNT: And Barbara says,  
9 "We're still of the opinion this is a three  
10 CFS water right. The question is: Can we  
11 agree to some kind of physical solution?"

12           Taro says, "I don't think we can get to  
13 the final stage without us giving an opinion."

14           Konrad says, "What do NFWF and NOAA need  
15 to fund a solution?"

16           Are NW -- NFWF and NOAA the funders that  
17 you were referring to when you were describing  
18 the purpose of the Lennihan Report with the --  
19 provide a figure so that the funders --

20           WITNESS COLE: As I'm recalling, those  
21 were two of the potential funders.

22           MR. HUNT: Okay. And then Bob says --  
23 Bob is with NOAA, I believe; is that true?

24           WITNESS COLE: I don't know.

25           MR. HUNT: We'll correct that in a

1 second.

2 But anyways, Bob says,

3 "We need a number to move forward with a  
4 solution. We don't want to revisit in 10 or  
5 15 years. We have money set aside. We need  
6 a number that's going to make everyone feel  
7 comfortable."

8 And then Doug says, and that's you,

9 "What's wrong with the number in the report?"

10 And are you referring to the Lennihan  
11 Report when you say this?

12 WITNESS COLE: I probably was at that  
13 point.

14 MR. HUNT: Would you agree that at this  
15 point this suggests you were agreeing to move  
16 forward with the solution that provided you with  
17 the water amount identified in the Lennihan  
18 Report?

19 WITNESS COLE: My position has always  
20 been that the bottom line for me is the physical  
21 survival of Marble Mountain Ranch fiscally and  
22 the environmental survival of the resources.  
23 There is common ground there. If money is  
24 available to do remediation for whatever the  
25 project of the day is that makes the resource

1 preserved, and we are preserved fiscally and with  
2 our business and family heritage, that's  
3 acceptable. If the funding from NOAA and NFWF is  
4 dependent on a number from the Lennihan Report  
5 that is acceptable and can allow for the survival  
6 of my business, any number is acceptable. If  
7 NOAA and NFWF --

8 MR. HUNT: Okay.

9 WITNESS COLE: -- can fund --

10 MR. HUNT: I understand.

11 WITNESS COLE: You understand what I'm  
12 saying?

13 MR. HUNT: I understand.

14 WITNESS COLE: The bottom line is our  
15 survival, regardless of whatever number that is.

16 MR. HUNT: So just yes or no, do you  
17 agree that this suggests you are agreeing to move  
18 forward with the solution that provided with you  
19 the water in the amount identified in the  
20 Lennihan Report?

21 WITNESS COLE: Yes, presuming funding is  
22 available for --

23 MR. HUNT: Okay. That --

24 WITNESS COLE: -- and improvements are  
25 made.

1           MR. HUNT: Thank you. So do you recall  
2 the diversion rate described in the Lennihan  
3 Report, whether it included --

4           WITNESS COLE: I do not at this point.

5           MR. HUNT: -- ditch losses?

6           WITNESS COLE: I do not at this point.

7           MR. HUNT: Can we bring up Water Rights  
8 80 Exhibit? And turning to Bates pages, if I  
9 have control -- oh, I don't, oh, I do -- 25 --  
10 let's see, 2430 and 2431, this looks like it's a  
11 section on the conclusion.

12           So the question was: Do you recall  
13 whether the diversion rate described in the  
14 Lennihan Report included ditch losses? And if  
15 you look at the sentence that goes from page 2430  
16 to 2431, it says,

17           "The pre-1914 appropriative water rights  
18 supports diversion and use of up to 0.35 CFS  
19 for domestic and irrigation, 0.31 CFS for  
20 power generation, plus reasonable losses in  
21 the range of 0.5 CFS, for a total water right  
22 of 1.16 CFS."

23           Does that help you recall whether the  
24 Lennihan Report discussion of the diversion rate  
25 included ditch losses?

1           WITNESS COLE: Well, that sentence does  
2 mention ditch losses, yes.

3           MR. HUNT: And so that's -- that -- and  
4 in the quantification of the water right, they  
5 included the ditch loss as a 0.5 CFS?

6           WITNESS COLE: Can we go back to the  
7 sentences prior to that?

8           MR. HUNT: Sure. Take your time. How  
9 about we start -- you can --

10          WITNESS COLE: Yeah.

11          MR. HUNT: Let me know if you need me to  
12 scroll.

13          WITNESS COLE: "On balance documentation  
14 provided supports the conclusion that there  
15 is a viable pre-1914 appropriative water  
16 right that has and continues to be exercised  
17 on the Marble Mountain Ranch. However, there  
18 was a period from the 19" -- oh, I'm sorry.

19          MS. BRENNER: Can you repeat the question  
20 pending?

21          MR. HUNT: Yeah. I'm going to let Doug  
22 finish reading and then I'll ask him, if that's  
23 okay?

24          WITNESS COLE: Okay. Go ahead.

25          MR. HUNT: Do you feel like you have the



1 context now?

2 WITNESS COLE: Yeah, I do.

3 MR. HUNT: Okay. So the question was  
4 whether the Lennihan Report's quantification of  
5 the water right included ditch loss?

6 WITNESS COLE: It does mention ditch  
7 loss.

8 MR. HUNT: And it mentions it as how  
9 much?

10 WITNESS COLE: A half a CFS.

11 MR. HUNT: Okay. So according to the  
12 Lennihan Report, the total beneficial use would  
13 be 0.66 CFS?

14 WITNESS COLE: Under that analysis,  
15 that's what she's stating.

16 MR. HUNT: Okay.

17 (Pause in proceedings)

18 MR. HUNT: Can I take one -- excuse me,  
19 Mr. Moore. Can I take just one moment to confer  
20 with my client?

21 HEARING OFFICER MOORE: Yes, you may.  
22 Let's stop time.

23 (Pause in proceedings)

24 MR. HUNT: Thank you. I think this is --  
25 this will be the last of it.

1           So did you not propose a schedule and a  
2 process for moving forward to comply with the  
3 Cleanup and Abatement Order?

4           WITNESS COLE: I'm not sure I can  
5 identify which Cleanup and Abatement Order and  
6 what my response had been. Can you --  
7 apparently, you've got a response you want to  
8 bring up. Can you --

9           MR. HUNT: No, I don't, actually. I  
10 don't. It's just I wanted to -- I wanted to know  
11 something, just generally related to it, not  
12 specific to a document. But let me get the  
13 number of the Cleanup and Abatement Order. It  
14 was -- it was issued by the Regional Board.

15           WITNESS COLE: Okay.

16           MR. HUNT: Do you know which one I'm  
17 talking about now? Is there some other Cleanup  
18 and Abatement Order that I'm not aware of related  
19 to your --

20           WITNESS COLE: To be honest with you --

21           MR. HUNT: -- diversions?

22           WITNESS COLE: -- there's been so much  
23 dialogue back and forth, I don't recall exactly  
24 which document you're talking about.

25           MR. HUNT: Okay. Well, did you -- did

1 you propose a schedule in order to comply with  
2 directions from the Regional Board about what  
3 needed to be done to --

4 WITNESS COLE: Can I consult with my  
5 counsel on this? Because I'm -- I'd like to give  
6 you an accurate answer. Okay.

7 I would presume that we did.

8 MS. BRENNER: You need to indicate  
9 whether you recall or not.

10 WITNESS COLE: I don't recall exactly.

11 MR. HUNT: Have you -- have you set out a  
12 schedule for addressing the complaints in the --  
13 that the Regional Board has made regarding the  
14 condition of your ditch and fixing those  
15 problems?

16 WITNESS COLE: I'm remembering a proposal  
17 which was rejected by the Water Board.

18 MR. HUNT: Okay. You -- but you didn't  
19 make -- did you make commitments to do something  
20 in order to address what the Water Board wanted  
21 you to do? You made a proposal?

22 WITNESS COLE: I'm recalling that we made  
23 a proposal and made some improvements and did our  
24 most recent -- all I'm remembering is that our  
25 most recent proposal has been rejected by Water

1 Board.

2 MR. HUNT: Okay. So -- and in terms of  
3 complying with what the Water Board wants you to  
4 do, are you on schedule with that?

5 WITNESS COLE: I don't think that I am in  
6 compliance with what the Water Board wants. And  
7 it's impossible --

8 MR. HUNT: And why --

9 WITNESS COLE: -- for me.

10 MR. HUNT: Why is that?

11 WITNESS COLE: It's impossible for me to  
12 meet most of the requirements. Some of them I  
13 can and have met, and others I haven't. It's  
14 impossible for me to meet.

15 MR. HUNT: Okay. Let's take a look at --  
16 back to MMR-1, and this is it. I just want to  
17 quickly understand what this says. It's not  
18 totally clear to me about -- in Section 8, which  
19 begins on page 13 of the document, it says,  
20 "Continuing diversion improvement efforts." And  
21 then the second sentence -- no, first sentence,  
22 last -- well, you're describing that these are  
23 the projects that you plan to complete. And it  
24 says, "provided the outcome of the public hearing  
25 results in the continued use of my full pre-1914

1 three CFS water right."

2           What will you do if it doesn't result in  
3 that?

4           WITNESS COLE: So are you asking me what  
5 I will do if I cannot -- I'm sorry, can you  
6 repeat your question?

7           MR. HUNT: Well, I'm just trying to  
8 understand what you mean when you say that you  
9 plan on completing a number of projects,  
10 "provided the outcome of the public hearing  
11 results in the continued use of my full pre-1914  
12 three CFS water right."

13           WITNESS COLE: Presuming I have access to  
14 use the full three CFS, which is what's required  
15 for me to operate the hydroelectric plant in the  
16 winter, I would improve -- continue to make  
17 ongoing improvements in the ditch so that it is  
18 more stable. I would pipe sections of the ditch.  
19 I would prefer not to pipe the entire ditch for  
20 reasons I mentioned previously about sediment  
21 conveyance in a pipe. So my approach has been  
22 spot reinforcements and repairs to the ditch  
23 line, improvements to the hydroelectric plant,  
24 improvements to the ranch, electrical  
25 infrastructures to become more efficient, all

1 these things would be happening were I not  
2 distracted by trying to fund defensive maneuvers  
3 in court and hiring consultants to provide  
4 analyses of sediment loading in the ditch and  
5 neighboring drainages. My resources are  
6 redirected to other areas right now, rather than  
7 improvements to the infrastructure of the ranch  
8 and the ditch conveyance capacities.

9           So presuming that there's a resolution  
10 that can come -- come to fruition with the Water  
11 Board, and presuming we have an agreed allowance  
12 to run the hydroelectric plant and stop, I'm  
13 going to use the word persecution, and so please  
14 don't take offense to that, but that's the sense  
15 that I have and the -- and the feeling that we  
16 have as a family and business. If I'm allowed to  
17 my job as a facility manager and steward of this  
18 resource, my intent is to continue to improve our  
19 operations so that our impact and the resource is  
20 minimized. It's to my benefit and my business to  
21 have a successful resource in the area, as much  
22 as it is to any other individual that resides in  
23 the area or in the larger human population.

24           I want this resource to be preserved as  
25 much as Water Board does, as much as Karuk Tribe

1 does, as much as Old Man River. This is my home.  
2 My intent is to improve the resource. In order  
3 for me to do that, I have to be enabled to  
4 fiscally and emotionally and with personal energy  
5 to make that happen. And that's my intent when I  
6 say, presuming this comes to a successful  
7 fruition, then that's my plan. That's what I  
8 have been doing prior to all of this and what I  
9 intend to continue.

10 MR. HUNT: Those are all --

11 WITNESS COLE: My willingness to  
12 cooperate --

13 MR. HUNT: Those are all --

14 WITNESS COLE: -- has been made clear.

15 MR. HUNT: Okay. Thank you. Those are  
16 all the questions I have.

17 HEARING OFFICER MOORE: Okay. Thank you,  
18 Mr. Hunt.

19 Next, I would invite Old Man River Trust  
20 to ask questions under cross-examination.

21 CONTINUED CROSS-EXAMINATION BY

22 MR. FISHER: Mr. Cole, before you  
23 purchased Marble Mountain Ranch, had you had  
24 experience living off the grid or maintaining  
25 diversions from creeks?

1                   WITNESS COLE: No. I lived in an urban  
2 setting, but had my profession in the wilderness  
3 as an outfitter and guide. However, I did not  
4 reside in an off-grid situation.

5                   MR. FISHER: Okay. And before that had  
6 you stayed at a business, like a tourist business  
7 or any form of hospitality business that existed  
8 off of the power grid?

9                   WITNESS COLE: I may have, but I can't  
10 say for certain.

11                  MR. FISHER: Before you purchased the  
12 property, did you evaluate other such properties  
13 off the grid to see what it entailed?

14                  WITNESS COLE: I wasn't in the market to  
15 purchase Marble Mountain Ranch when the -- when  
16 we first were solicited to purchase the property.  
17 We were using the facility for a number of years  
18 as a white water rafting outfitter. And so we  
19 became familiar with it in the course of  
20 outfitting and guiding out of Young's Ranch  
21 Resort.

22                  So does that answer your question?

23                  MR. FISHER: I think so. I'm just trying  
24 to get an idea of how much you investigated what  
25 it takes to run a gravity water system and a



1 hydro -- and a hydropower system off the grid  
2 before you decided to spend the money to purchase  
3 the property?

4 WITNESS COLE: I didn't investigate  
5 anything at all for hydroelectric generation. I  
6 knew nothing about it at all.

7 MR. FISHER: Okay. Since -- and how  
8 about of the specific property before you  
9 purchased it, did you evaluate the hydro system,  
10 maybe ask -- did you ask any third parties what  
11 they thought of it, about the practicality of it?

12 WITNESS COLE: No.

13 MR. FISHER: And how -- same question for  
14 the water conveyance system, did you ask any  
15 third parties if this method of diversion was  
16 either in keeping with the local norms or  
17 practical from a management standpoint?

18 WITNESS COLE: No.

19 MR. FISHER: The cost estimates you  
20 mentioned yesterday, a half million dollars for  
21 solar, that is based on a presumed need of how  
22 much power?

23 WITNESS COLE: I'm assuming you're asking  
24 about how Hal Slater's sales pitch for his  
25 product, which is roughly a half million dollars.

1 And that was based on his distant evaluation of  
2 what our energy needs are based on what I told  
3 him our power generation plant currently  
4 produced.

5 MR. FISHER: Okay. Of all the estimates  
6 in the record submitted by Marble Mountain Ranch,  
7 were they all essentially based on the starting  
8 point of your stated need of power -- power  
9 output?

10 WITNESS COLE: I wouldn't solicit an  
11 estimate for anything less than what we were  
12 currently using.

13 MR. FISHER: You're -- okay. I'm trying  
14 to decipher between your stated need versus  
15 actual. You've also said you don't measure --  
16 yesterday, that you don't measure power usage at  
17 your houses, so I'm trying to get at actual need  
18 as opposed to, perhaps, stated need.

19 WITNESS COLE: In the case of Hal Slater,  
20 as I recall, he asked me to do an appliance  
21 summary, taking a look at amperage requirements  
22 for each of the major appliances, typical  
23 household appliance needs in the homes. And so  
24 there was an evaluation done by him to take a  
25 look at what his estimate would be to operate the

1 ranch in its current configuration for electrical  
2 needs based on existing infrastructure, so he  
3 came up with his proposal for an installation  
4 based on those kinds of numbers.

5 MR. FISHER: So I'm trying to get at who  
6 is deciding the primary basic power need. The  
7 California Water Board in its -- has requested  
8 that you conduct an energy audit, which I would  
9 presume means determining actual normal,  
10 reasonable power consumption.

11 WITNESS COLE: Yeah. This is Hal's  
12 attempt at that. And as you recall, Joey Howard  
13 also did look at that. And so an energy  
14 evaluation, this is one version of it.

15 MR. FISHER: So I guess I'll go back to  
16 this question.

17 Did Joey Howard calculate based on  
18 standard protocols or based on your statement of  
19 power need?

20 WITNESS COLE: On a physical summary of  
21 the ranch, similar to what I did for Hal, if I  
22 can recall correctly.

23 MR. FISHER: Okay. Have you conducted  
24 what would be considered an energy audit, as  
25 requested by the California Water Board?

1           WITNESS COLE:  Would you consider this to  
2 be an energy audit?

3           MR. FISHER:  It depends, honestly, on  
4 how -- on who determines needs by -- in the same  
5 we calculate consumptive water needs based on  
6 this is standard per household, it's the same.  
7 The same goes for energy.

8           WITNESS COLE:  So I would reply, we did  
9 do that.  And the efforts of Joey Howard, Hal  
10 Slater and the electrician, three individuals who  
11 have looked at the ranch, the needs of the ranch,  
12 the consumptive energy patterns, the distribution  
13 on the ranch, and so I would call that an energy  
14 audit.

15          MR. FISHER:  Okay.  What's the  
16 manufacturer date on the Pelton wheel you  
17 currently use?

18          WITNESS COLE:  I don't know when it was  
19 manufactured.

20          MR. FISHER:  All right.  Well --

21          WITNESS COLE:  We installed it roughly 20  
22 years ago.

23          MR. FISHER:  Okay.  So it's about 20  
24 years old.  And the maximum output of the Pelton  
25 wheel, I think you said was 40 kW?

1           WITNESS COLE:- Yes. That's based on the  
2 generator that it's attached to right now.

3           MR. FISHER: Okay. When you chose to  
4 upgrade this, I know you spent a lot of money.

5           Did you consider a system that would  
6 be -- that would have had a battery bank and  
7 higher efficiency in terms of water use per power  
8 output?

9           WITNESS COLE: Twenty years ago, battery  
10 technology was pretty inefficient for storage.  
11 That wasn't even a consideration. We looked for  
12 a hydroelectric plant that fit the system and was  
13 appropriate for the needs of the moment.

14          MR. FISHER: By fit the system, you mean  
15 utilize current point of diversion?

16          WITNESS COLE: Available head to drive a  
17 generator.

18          MR. FISHER: Available -- and who  
19 determined available head?

20          WITNESS COLE: Who determined?

21          MR. FISHER: How do you determine --

22          WITNESS COLE: The head is an existing --

23          MR. FISHER: How do you -- how do you  
24 determine available head?

25          WITNESS COLE: You take a vertical

1 measurement from the top to the bottom of a pipe  
2 and you measure the diameter of the pipe and the  
3 available flow moving into the penstock, and you  
4 can create a hypothetical energy production based  
5 on how much kinetic energy can be transferred  
6 down that system.

7           So imagine a straw. You have a skinny  
8 straw that's filled to the top of 12 inches. You  
9 can produce so much power. You lengthen the  
10 straw, you can produce more power. You widen the  
11 straw, for the same width you can produce more  
12 power. The Kinetic energy is going to be  
13 dependent on the volume of flow and the head  
14 pressure, which is determined by the elevation  
15 from top to bottom of the penstock.

16           MR. FISHER: So elevation from top to  
17 bottom of the penstock. If you look at this map,  
18 there's a dot for the current point of diversion  
19 and a potential point of diversion.

20           Would the potential point diversion  
21 provide you with considerable more head?

22           MS. BRENNER: Can you please identify  
23 what you're referring to?

24           MR. FISHER: This.

25           MS. BRENNER: You need to identify it,

1 not just by this.

2 MR. FISHER: Exhibit 1, OMRT-1.

3 MS. BRENNER: Thank you.

4 WITNESS COLE: I can see a potential  
5 point of diversion.

6 Konrad, you need to understand that I  
7 will never agree to relocating the point of  
8 diversion another 1,000, 2,000 feet up and  
9 reinstituting a new intrusion with new ditch  
10 lines and unstable conveyances and new access  
11 roads. I will never go there. And this ditch in  
12 its current location has been stabilizing for 150  
13 years. A minimal impact has got to be a piece of  
14 the solution.

15 An intrusion like this is beyond  
16 comprehension for me. I don't want to go there.

17 MR. FISHER: Okay. Can we speak about  
18 impacts for a minute --

19 WITNESS COLE: Sure.

20 MR. FISHER: -- on my diversion and my  
21 property?

22 Do you -- are you -- you said, in your  
23 previous testimony, that the ditch captures  
24 rubble that would otherwise flow down Stanshaw  
25 Creek?

1 WITNESS COLE: It does.

2 MR. FISHER: Does it catch rubble  
3 infinitely, or does that rubble sometimes get  
4 released?

5 WITNESS COLE: I'm not sure of the  
6 question you're asking. Does it capture rubble  
7 infinitely?

8 MR. FISHER: It captures rubble. I  
9 assume the rubble stacks up?

10 WITNESS COLE: Correct.

11 MR. FISHER: Does it stack up forever, or  
12 does it sometimes get released into the creek?

13 WITNESS COLE: It will be the same as any  
14 piece of Stanshaw Creek drainage. It will fill  
15 up to a point. Imagine a riffle in Stanshaw  
16 Creek. Gravel is going to fill it up, and then  
17 it will be blown down to another spot lower and  
18 then it will fill up. So as slides happen  
19 alongside of the Stanshaw drainage, there's an  
20 infinite amount of gravel and sand and sediment  
21 that can be put into Stanshaw Creek.

22 So does it capture gravel infinitely? I  
23 would say, yes, because there's an infinite  
24 amount of sediment that can be captured in  
25 Stanshaw Creek.



1           MR. FISHER: We're talking about the  
2 ditch versus the creek.

3           Are you aware of mudslides that have  
4 occurred in the winter, sending a plume of mud  
5 down the creek, into my water system and into the  
6 Klamath River?

7           WITNESS COLE: Stanshaw Creek has regular  
8 sloughs under every single winter year. If you -  
9 - when I go to maintain the ditch and shut it off  
10 in anticipation of a storm, I can, at times, see,  
11 looking downstream and on the opposite side of  
12 the river, entire hillsides that have moved.  
13 Stanshaw Creek routinely flows muddy. It  
14 routinely carries sediment. I've made that point  
15 over and over again. There's an infinite amount  
16 of -- yes, there's infinite sediment that it  
17 carries, and it happens naturally, regardless of  
18 the ditch existence.

19           MR. FISHER: The video that was shown on  
20 Monday showed evidence of historic mudslides on  
21 the ditch into Stanshaw Creek.

22           WITNESS COLE: It did not show mudslides  
23 entering into Stanshaw Creek.

24           MR. FISHER: The -- okay. I guess we  
25 would characterize what we saw differently. A

1 break in the ditch with a plume of mud going  
2 down, I would -- I would consider a mudslide.

3           When the Klamath -- the mouth of Stanshaw  
4 Creek looks like you see in the photo, have you  
5 ever examined the mouths of other creeks at times  
6 when this is occurring?

7           WITNESS COLE: I've lived on the Klamath  
8 for 25 years. As I drive the highway, in a large  
9 storm I see muddy creeks all up and down the  
10 highway, Stanshaw, Ti Bar, every single tributary  
11 will flow muddy, given the right storm.

12           MR. FISHER: And driving down 96, I'm  
13 not -- or being at your house, I'm not certain  
14 that's possible.

15           When the mouth of a creek looks like what  
16 you see in this photo, have you actually gone to  
17 the mouth of Sandy Bar Creek or Irving Creek or  
18 any other creeks?

19           WITNESS COLE: When I've seen Stanshaw  
20 muddy, have I gone to other creeks; is that what  
21 you're asking?

22           MR. FISHER: Yeah, to see if -- to see  
23 what impacts your diversion may be having  
24 relative to other watersheds?

25           WITNESS COLE: I'm not sure what Stanshaw

1 Creek's impact has on other creeks' watersheds.

2 MR. FISHER: I'm speaking to --

3 WITNESS COLE: That's confluence.

4 MR. FISHER: I'm speaking to the impact  
5 of your diversion ditch on Stanshaw Creek. The  
6 photo shows a washout from your ditch filling the  
7 Klamath River with mud at the time when the  
8 other --

9 WITNESS COLE: It doesn't show that.

10 MR. FISHER: -- okay -- at the time this  
11 happens. Go ahead.

12 At the time this happens, have you or  
13 have you not examined other creeks to see if they  
14 look the same way?

15 WITNESS COLE: Konrad, I see mudslides  
16 routinely on Stanshaw Creek, regardless of  
17 whether they're creek right, creek left, up  
18 ditch, down ditch. Stanshaw Creek is a high  
19 gradient stream. It always has mudslides and it  
20 always will have mudslides. And I capture that  
21 mud in my ditch on occasion if I don't shut the  
22 ditch off.

23 MR. FISHER: Okay.

24 WITNESS COLE: So my ditch gets shut off  
25 in high-flow scenarios to prevent overtopping.

1           When you see mud entering the Klamath  
2 River from Stanshaw Creek, that mud is a  
3 naturally-occurring slide in the drainage of  
4 Stanshaw Creek. My ditch is off.

5           MR. FISHER: One more question.

6           When there are -- when there's mud going  
7 out of the mouth of Stanshaw Creek, have you  
8 walked above your point of -- above your  
9 diversion, and below, to see where the mud is  
10 actually coming from?

11          WITNESS COLE: I have to say that when  
12 Stanshaw Creek is flowing like that, I stay as  
13 far away as possible from getting in Stanshaw  
14 Creek. It's fairly risky.

15          MR. FISHER: So, no, you haven't been  
16 able to check everything?

17          WITNESS COLE: I have not walked up  
18 Stanshaw Creek in flood stage.

19          MR. FISHER: Okay.

20          MS. WEAVER: Mr. Fisher, could you  
21 identify the exhibit you're -- you have up on the  
22 screen, just for the record?

23          MR. FISHER: Yes. If the mouse -- if the  
24 mouse worked, I could. There. OMRT-5.

25          MS. WEAVER: Thank you.

1           MR. FISHER: Are you aware of the  
2 impact -- or you stated in your earlier testimony  
3 that to manage the ditch, to manage your  
4 diversion, you must sometimes cease diverting  
5 completely to maintain the ditch; is that right?

6           WITNESS COLE: I do.

7           MR. FISHER: And does that sometimes  
8 happen in the summer and the winter, or mostly  
9 summer?

10          WITNESS COLE: And --

11          MR. FISHER: Well, does that happen all  
12 times of year? Is that required all times of  
13 year?

14          WITNESS COLE: It's not required all  
15 times of year, as far as to prevent overtopping.  
16 But I do shut it off periodically for  
17 maintenance.

18          MR. FISHER: Okay. Are you aware of the  
19 impact that that has on my downstream diversion,  
20 that it has had in the past when you've shut off  
21 the diversion, thereby increasing the flow  
22 rapidly?

23          WITNESS COLE: I thought your diversion  
24 was from a tertiary point off the site.

25          MR. FISHER: Two points of diversion, one

1 from the mainstem, one from the tributary.

2 WITNESS COLE: Okay. I have not  
3 consulted with you. When I shut the ditch off, my  
4 agenda is to maintain the ditch and to prevent  
5 erosive of events.

6 MR. FISHER: And when I have told you  
7 there's mud coming out of my kitchen sink as a  
8 result of your management, how have you  
9 responded?

10 WITNESS COLE: Can you prove to me that  
11 mud from your kitchen sink has arrived from my  
12 ditch?

13 MR. FISHER: Can you prove that it  
14 hasn't?

15 WITNESS COLE: Excuse me.

16 MS. BRENNER: Do you have a question?  
17 Arguing --

18 MR. FISHER: I'm asking how --

19 MS. BRENNER: Your arguing with the  
20 witness.

21 MR. FISHER: It's -- sorry. It's about  
22 more. It's getting to corrective actions and  
23 remedies that would meet both of our needs as  
24 water right holders.

25 MS. BRENNER: I'm not asking the purpose

1 of the question. I'm asking, what is the  
2 question?

3 MR. FISHER: Are you aware that when you  
4 cease diverting completely, particularly in the  
5 summer, and the flow of Stanshaw Creek increases  
6 exponentially, that it adversely impacts  
7 downstream diversions?

8 MS. BRENNER: That was asked and  
9 answered.

10 MR. FISHER: Back to my initial question,  
11 are you aware of the impact on downstream  
12 diversions when you cease diverting rapidly?

13 WITNESS COLE: I have not ceased  
14 diverting in graduated increments, other than  
15 to -- let me explain the process of how I shut  
16 the ditch off, and maybe that will give you some  
17 insight.

18 The first step is to go to my most  
19 downstream weir, which is used as a flow control  
20 point, and remove the freeboard boards which  
21 entrain the ditch water. So there is a partial  
22 exit of ditch water at that point. I then walk  
23 upstream, do the same thing at the second weir,  
24 and then move upstream to the point of diversion  
25 and move rocks into the ditch, out of the berm,

1 to the stop water there. That process to  
2 completely shut off the ditch is about, well,  
3 probably 45 minutes to an hour process by the  
4 time I get into the ditch and move enough rocks  
5 to stop the flow.

6 So on that point, if that's considered an  
7 instantaneous shutoff, that's what I do.

8 MR. FISHER: During the forest fire last  
9 summer, did the U.S. Forest Service fill its  
10 trucks on your land, using water diverted from  
11 Stanshaw Creek?

12 WITNESS COLE: They did.

13 MR. FISHER: And was that out of your  
14 ditch or out of the pond?

15 WITNESS COLE: All of the above.

16 MR. FISHER: And are you -- do you know  
17 where that fire started?

18 WITNESS COLE: I do not. Which fire are  
19 we talking about, the --

20 MR. FISHER: The fire that happened last  
21 summer.

22 WITNESS COLE: The Haypress fire --

23 MR. FISHER: No, the Marble fire that  
24 happened last summer.

25 WITNESS COLE: I do not.



1 MR. FISHER: You're not aware of where it  
2 started? Okay.

3 Are you aware of how it started?

4 WITNESS COLE: No.

5 MR. FISHER: Are you aware that it burned  
6 the upper portion of my water system?

7 WITNESS COLE: It burned my water system,  
8 as well, Konrad.

9 MR. FISHER: Okay. Is there an  
10 investigation to determine how that fire started?

11 WITNESS COLE: There was.

12 MR. FISHER: Was it completed?

13 WITNESS COLE: Yes.

14 MR. FISHER: When determining your  
15 consumptive water use -- when determining  
16 consumptive water use in her report, on -- where  
17 did Martha Lennihan arrive at the number for  
18 irrigated acres? Where did Martha Lennihan get  
19 the -- get her estimate for irrigated acres to  
20 come to her calculation for consumptive water  
21 use?

22 WITNESS COLE: I can't speak for Martha  
23 Lennihan.

24 MR. FISHER: her report assumes 40 acres  
25 of irrigated alfalfa. You're not -- you don't

1 know where she got that number?

2 WITNESS COLE: She -- I can provide  
3 hearsay or conjecture on this point of how she  
4 did her evaluation. I don't recall.

5 MS. BRENNER: If you don't know the  
6 answer --

7 WITNESS COLE: I don't know.

8 MR. FISHER: Do you know where historic  
9 water use occurred, pursuant to the Stanshaw  
10 mining claim?

11 MS. BRENNER: I'm going to object to  
12 continued line of questions on historic pre-1914  
13 water rights. It's not at issue in this hearing.

14 HEARING OFFICER MOORE: Can you explain  
15 why this line of questioning is relevant?

16 MR. FISHER: It gets -- it relates to  
17 historic versus current water use and the  
18 reliance on a ditch that's, in Marble Mountain  
19 Ranch's statements, is carrying a level that is  
20 in keeping with what was historically diverted  
21 for mining. So the capacity of their ditch, if  
22 it is based on the full use of Sam Stanshaw's  
23 original allotment, it would have been  
24 constructed differently than if it was only for a  
25 portion of or none of the Stanshaw allotment.

1 It's about the capacity of the ditch.

2 HEARING OFFICER MOORE: I'm struggling to  
3 see --

4 MR. FISHER: Okay.

5 HEARING OFFICER MOORE: -- the connection  
6 to the key issues of this proceeding.

7 MR. FISHER: Okay. So in the  
8 considerable analysis that has gone into  
9 corrective actions or remedies, and during this  
10 period of cooperation, have any of the third  
11 party reports evaluated standalone solar systems  
12 or, again, hydro systems that rely on less water  
13 and higher head?

14 MS. BRENNER: Can you be more specific?  
15 Third party reports?

16 MR. FISHER: Any of the reports that are  
17 in the record for this hearing that speak to  
18 hydropower production and water consumption,  
19 Cascade Stream Solutions or the Lennihan Report  
20 or any of the ones submitted to this record.

21 MS. BRENNER: I'd still object as vague.

22 HEARING OFFICER MOORE: Try again. Try  
23 to phrase that question a little more directly so  
24 that --

25 MR. FISHER: Okay.

1 HEARING OFFICER MOORE: -- to facilitate  
2 an answer.

3 MR. FISHER: Mr. Cole, do you recall our  
4 conversation the day before the meeting in  
5 Orleans that was referenced in this -- in the  
6 previous testimony?

7 MS. BRENNER: Can you give me a date of  
8 the Orleans --

9 MR. FISHER: I'm looking for it --

10 MS. BRENNER: -- meeting?

11 MR. FISHER: -- right now. The --

12 MS. BRENNER: Are you talking about the  
13 12/17/2014 meeting, the stakeholder meeting?

14 MR. FISHER: Yes.

15 MS. BRENNER: Okay.

16 MR. FISHER: Do you recall our discussion  
17 approximately 24 or 48 hours before that about  
18 whether we could agree to three classifications  
19 of potential remedies, standalone solar, hydro  
20 using current point of diversion, and hydro using  
21 a higher point of diversion, those three  
22 general --

23 WITNESS COLE: I remember you sent me a  
24 document with your proposals trifurcating some  
25 sort of an energy system.

1 MR. FISHER: Do you remember us meeting?

2 WITNESS COLE: I don't remember.

3 MR. FISHER: Okay. Do you remember us  
4 meeting and going for a long walk and ultimately  
5 talking about three paths of solutions that we  
6 had agreed to --

7 WITNESS COLE: I remember.

8 MR. FISHER: -- go forward with the --

9 WITNESS COLE: Yes, I remember going on a  
10 walk with you.

11 MR. FISHER: Do you remember tentatively  
12 agreeing to -- that we would both agree to three  
13 solutions, standalone solar, hydro using current  
14 point of diversion, and then hydro using higher  
15 point of diversion, and that we would go into the  
16 meeting in Orleans with that shared agreement?

17 WITNESS COLE: My position then and now  
18 has always been any solution that protects the  
19 resource and enables Marble Mountain Ranch's  
20 survival is an option to consider, whether it's  
21 one of your three, one of -- or any other  
22 solution. That's my bottom line. I am less  
23 concerned about the technicalities of it. It has  
24 to be a manageable system. Whatever physical  
25 solutions come in place has to minimize the

1 impact. I'm not going to move the point of  
2 diversion higher up, as per your suggestion, so  
3 that leg of your trifurcation of solutions is  
4 out, in my opinion.

5 Again, preserve the resource, easily  
6 manageable and long-term viability, Marble  
7 Mountain Ranch survives and anything is on the  
8 table.

9 MR. FISHER: And in this list of  
10 requirements for a proposed solution, where does  
11 downstream -- where does my exercise of my water  
12 right, my -- my livelihood come in, the impact on  
13 my downstream --

14 MS. BRENNER: I'm going to object as  
15 outside the scope of --

16 COURT REPORTER: You're microphone is not  
17 on there.

18 MS. BRENNER: Sorry.

19 I'm going to object on the -- outside of  
20 the scope of this hearing.

21 MR. FISHER: Within the reasonable use  
22 doctrine, is it relevant whether a diversion  
23 impedes other beneficial uses and users of water?

24 HEARING OFFICER MOORE: On -- yeah. I'll  
25 allow the question in terms -- you know, narrow

1 the question so it can be a yes or no or --

2 MR. FISHER: Okay.

3 HEARING OFFICER MOORE: -- you know,  
4 something. You know, be straightforward --

5 MR. FISHER: Okay.

6 HEARING OFFICER MOORE: -- with the  
7 question.

8 MR. FISHER: You've listed the parameters  
9 that you'd require for a proposed solution.

10 Will you also -- how would you also  
11 address protecting downstream beneficial uses and  
12 users of water?

13 MR. FISHER: Unfortunately, Konrad, one  
14 of those answers is that by utilizing hydro plant  
15 generation on Marble Mountain Ranch, the  
16 downstream user, Blue Heron, can survive.  
17 Removal of hydro plant generation eliminates that  
18 downstream user's capacity to utilize their  
19 permitted and authorized hydroelectric plant.

20 I have nothing against your survival,  
21 Konrad. My point of concern in this hearing is  
22 whether or not I have -- I've been accused of  
23 wasteful use of the water. And in my opinion,  
24 how you survive is outside the scope of this  
25 hearing. I hope you do survive. I hope you can

1 find a way to find a viable source of water for  
2 your operations. That doesn't have an impact on  
3 what we're discussing here today.

4 MR. FISHER: How I survive is outside the  
5 scope of this hearing? Okay.

6 Is infringement upon other legal users of  
7 water and instream uses of water outside the  
8 scope of this hearing?

9 WITNESS COLE: Konrad, I'm being accused  
10 of wasteful use of water. That's what this  
11 hearing is about.

12 MR. FISHER: I'm trying to get --

13 MS. BRENNER: I'm going to object. This  
14 line of questioning has just become an argument  
15 between two parties.

16 HEARING OFFICER MOORE: No. While  
17 empathetic to the objection, I will remind  
18 everyone here that in any proceeding with respect  
19 to waste and unreasonable use or unreasonable  
20 diversion, et cetera, the downstream water users'  
21 interests are relevant.

22 WITNESS COLE: Okay. Then I'll expand.

23 MS. BRENNER: Wait for a question to  
24 answer.

25 WITNESS COLE: Okay.



1           Ask me a question, Konrad.

2           MR. FISHER:   What remedies would you  
3 propose to protect my ability to divert water for  
4 domestic use, fruit trees, and to protect  
5 instream beneficial uses of water from, yeah,  
6 from your diversion?

7           WITNESS COLE:   I'm not understanding how  
8 my diversion impacts your survival or your  
9 operation there, so I have a difficult time  
10 answering that.   Mud in Stanshaw Creek is not  
11 caused by the diversion of Marble Mountain Ranch.  
12 A lack of water to you is -- if I have bypass  
13 flows at the diversion, you have water at your  
14 diversion.

15          MR. FISHER:   From our conversations over  
16 the last 20 years, are you aware of the impact  
17 of, one, diverting the vast majority of Stanshaw  
18 Creek, or two, rapid fluctuations of your  
19 diversion when you maintain your ditch or  
20 rapid -- or rapid fluctuations toward the  
21 beginning of the summer when you fortify your  
22 diversion, thereby decreasing flows rapidly in  
23 Stanshaw Creek when there are fish in it; are you  
24 aware of those impacts?

25          WITNESS COLE:   I do recall you calling me

1 and asking that I not divert some much water  
2 because you were having a swim party at the  
3 refugial pool and you wanted to make sure there  
4 was sufficient water for the swim party.

5 I do recall a phone call where you said  
6 that the ditch was creating mud in the stream and  
7 what was I doing when Stanshaw Creek was flowing  
8 muddy above the diversion and below the  
9 diversion. And I was capturing muddy water, as  
10 well. So many of the times when you've accused  
11 me of creating muddy water, I have also been  
12 trying to filter muddy water, which is why I have  
13 designed a system to shut off my ditch to allow  
14 major storm -- storm pulses to pass before I have  
15 to capture water. That's what my storage system  
16 is about, so that I can live for a brief period  
17 on un-muddied water.

18 I would suggest that you invest in a  
19 storage system, as well, and that your intake  
20 system has something equivalent to what I've  
21 designed. That would be an intake system with a  
22 filter system and some sort of storage device.  
23 I'd be happy to talk with you about that and show  
24 you what I've got going, if that would help you.

25 MR. FISHER: And how would you propose

1 accommodating hydropower production on both  
2 lands, yours and mine?

3 WITNESS COLE: I don't know anything at  
4 all about producing hydropower generation on your  
5 property, other than that you want to establish  
6 it. What's available -- I'm limited by what I  
7 can do at my point of diversion by my survival  
8 and by minimum bypass flows. What you have  
9 available for you at Old Man River, I just -- I  
10 hope you can succeed. I'm not in a position to  
11 offer editorial on it.

12 MR. FISHER: Would you agree that the  
13 bypass reach of Stanshaw Creek used by a hydro  
14 system of yours and a hydro system of mine would  
15 be relevant to a potential remedy? By bypass  
16 reach, I mean point of diversion and point of  
17 return flow for hydro system. Is that not  
18 relevant, which bypass reach you have versus  
19 which one I have? Is that not relevant to a  
20 proposed remedy?

21 WITNESS COLE: Well, the first remedy we  
22 had, which was to pipe all of our effluent back  
23 to the anadromous stretch would have provided you  
24 two-and-a-half to three CFS of water, pressurized  
25 at probably 120 psi, and you could generate more

1 power than I do. That system was lost when that  
2 grant was -- when that grant application failed.

3 Again, I have no problem with anything  
4 you do for your survival. And I'm happy to --

5 MS. BRENNER: Just answer the question.

6 WITNESS COLE: Yeah.

7 MR. FISHER: By bypass reach that you're  
8 currently using, I'm referring to this point of  
9 diversion.

10 MS. WEAVER: Can you state the exhibit  
11 number please?

12 MR. FISHER: OMRT-1 again. Sorry.

13 The current bypass reach you use, Mr.  
14 Cole, correct me if I'm wrong, is this the  
15 current bypass reach you use as point of  
16 diversion, returning to Irving Creek?

17 WITNESS COLE: I can't see topographical  
18 elevation lines on this, but I would presume that  
19 it is if you've gone ahead and done that.

20 MR. FISHER: Okay.

21 WITNESS COLE: We're roughly at 1,200  
22 feet.

23 MR. FISHER: For there to be two hydro  
24 systems on this creek without adversely impacting  
25 this stretch of creek on my land, which is where

1 anadromous fish use, would you not agree that  
2 this is -- the bypass reach that it must share is  
3 that which is above Highway 96, or bypass reaches  
4 that must be shared are above Highway 96?

5 MS. BRENNER: I'm sorry, the question is  
6 vague. I'm not understanding your question.  
7 Could you repeat it or reword it? I'm not  
8 following you.

9 MR. FISHER: Okay. Again, this is  
10 getting to potential remedies and protection of  
11 uses.

12 So my question is, okay, which bypass  
13 reach do you currently use, Mr. Cole? Where does  
14 it begin?

15 WITNESS COLE: Well, the point of  
16 diversion is marked on your map. I would presume  
17 that you would have ability to utilize riparian  
18 water rights, or you could make an application  
19 for appropriative water rights and use the  
20 mainstem of Stanshaw, or this tributary which  
21 comes in downstream of my point of diversion and  
22 before the anadromous stretch.

23 MR. FISHER: Okay.

24 WITNESS COLE: So hypothetically, there  
25 appears to be about three-quarters of a mile

1 worth of water and head that you could use to  
2 generate some hydro plant system for yourself  
3 based on either the main tributary of Stanshaw or  
4 that secondary leg, which we see.

5           The details of that, other than what I'm  
6 seeing on the map here, I can't do anything but  
7 offer conjecture on.

8           MR. FISHER: You said earlier, if you had  
9 gotten the grant to return the flow to Stanshaw  
10 Creek, is it correct that your bypass reach would  
11 have, well, yeah, your bypass reach -- would your  
12 bypass reach have been from the current point of  
13 diversion to the highway, had that grant come  
14 through?

15           MS. BRENNER: Again --

16           MR. FISHER: Again, bypass reach is the  
17 portion of creek that has less water as a result  
18 of a hydro system.

19           MS. BRENNER: I'm sorry. I'm not  
20 understanding the actual question.

21           MR. FISHER: What's the current bypass  
22 reach right now?

23           MS. BRENNER: Of whom?

24           MR. FISHER: Of Marble Mountain Ranch's  
25 hydro system.

1                   WITNESS COLE:   Bypass reach?   I'm  
2   guessing your definition of that is the length of  
3   the tributary downstream of our point of  
4   diversion.   Is that what you're calling it?

5                   MR. FISHER:   Again, my definition is,  
6   yeah, the portion of the creek that has less  
7   water as a result of a non-consumptive hydro use.  
8   That is -- that's the bypass reach.   So if you  
9   return it, then the bypass reach would be at the  
10  point of diversion and the point of return flow.  
11  That's the bypass reach.

12                  WITNESS COLE:   Okay.   So had that grant  
13  been approved, you would have had all of our  
14  hydro plant effluent piped back to your property,  
15  and you could have installed the hydroelectric  
16  plant that would have been higher pressure and  
17  more head.   You would have had more capacity to  
18  generate electricity than Marble Mountain Ranch.  
19  So the bypass reach question, I don't know how to  
20  answer that.

21                  MR. FISHER:   Okay.

22                  WITNESS COLE:   Is that what you're --  
23  because, yes, you would have had, had that been  
24  approved, beneficial use on top of -- you would  
25  have robbed Blue Heron of their beneficial use,

1 but you would have gained beneficial use at your  
2 location.

3 MR. FISHER: Is it true that under this  
4 scenario, my bypass reach would have been limited  
5 to Highway 96 to the mouth of Stanshaw Creek?

6 WITNESS COLE: No. It would have been  
7 rerouted through the piping system.

8 MR. FISHER: What would my bypass reach  
9 have been if I built a hydro system after you  
10 were able to install the proposal -- my bypass --  
11 again it's back to what my bypass reach would  
12 have been under this proposed solution.

13 WITNESS COLE: If we're talking  
14 hydroelectric plants at Old Man River, you would  
15 have been able to install one at the end of the  
16 return pipe.

17 MR. FISHER: Which is, yes or no, at the  
18 confluence, at the -- where Stanshaw Creek meets  
19 Highway 96?

20 WITNESS COLE: It's above that. It's  
21 above the anadromous stretch.

22 MR. FISHER: Okay. For clarification,  
23 your return flow would have been roughly where --  
24 where Stanshaw Creek crosses the Klamath River  
25 and --



1 WITNESS COLE: Upstream of it.

2 MR. FISHER: Okay.

3 WITNESS COLE: Above the anadromous  
4 stretch.

5 MR. FISHER: Yes -- yes or no, my --  
6 under this scenario, my bypass reach would have  
7 had to dewater the portion of the stream on my  
8 land that is Cojo habitat?

9 WITNESS COLE: No.

10 MR. FISHER: Okay.

11 WITNESS COLE: Bypass flow -- bypass  
12 flows from my point of diversion would have been  
13 maintained. The water returning to Stanshaw --  
14 the water that we diverted would have been  
15 returned to Stanshaw above the point of anadromy.  
16 So your refugial pool would have been renovated  
17 or rejuvenated by the flows. That was the  
18 purpose of the return.

19 MR. FISHER: Where -- where would my  
20 point of diversion be under this scenario?

21 WITNESS COLE: I don't know how to answer  
22 this question.

23 MR. FISHER: Is it that my point of  
24 diversion could not have been any higher than  
25 your point of return flow?

1 MS. BRENNER: I'm going to object to this  
2 line of questioning, continued line of  
3 questioning. It's not really at issue. It's  
4 beyond the scope of anybody's testimony.

5 MR. FISHER: Okay. That's fine. I would  
6 ask --

7 HEARING OFFICER MOORE: I'll sustain the  
8 objection this time. And the reason is, you  
9 know, it feels like you're doing a pop quiz, you  
10 know?

11 MR. FISHER: Okay.

12 HEARING OFFICER MOORE: Okay, answer this  
13 question, you know?

14 MR. FISHER: So --

15 HEARING OFFICER MOORE: Is the point of  
16 your --

17 MR. FISHER: Yes, I apologize. I'm  
18 trying -- I'm trying to get at proposed remedies,  
19 and this has been going on for nearly two  
20 decades, so, like, that's all. I'm trying to get  
21 at proposed remedies.

22 HEARING OFFICER MOORE: Yeah. But  
23 you're --

24 MR. FISHER: That's --

25 HEARING OFFICER MOORE: -- referring to

1 something that was a proposal 13 years ago.

2 WITNESS COLE: 2004.

3 HEARING OFFICER MOORE: Right. And so  
4 these are hypothetical.

5 MR. FISHER: Okay.

6 HEARING OFFICER MOORE: I'm struggling to  
7 see --

8 MR. FISHER: Do you have any new  
9 proposals, proposals newer than this one, to  
10 meet -- that would satisfy?

11 MS. BRENNER: Satisfy what? Meet what?

12 MR. FISHER: Downstream water rights and  
13 instream beneficial uses.

14 MS. BRENNER: Are you saying a new  
15 hydropower used for you? Are you talking about a  
16 new use?

17 MR. FISHER: In part a new use, and also  
18 existing domestic uses, and also instream  
19 beneficial uses for fisheries.

20 MS. BRENNER: Well, you've been talking  
21 about hydropower.

22 MR. FISHER: Okay.

23 MS. BRENNER: So are you -- what are you  
24 asking for?

25 MR. FISHER: You said the Cascade Stream

1 Solutions report -- or solution is old. I am  
2 asking what solutions you would propose? Let's  
3 make it broader. What solutions are you willing  
4 to agree to in this proceeding? Yesterday you  
5 did say foregoing hydro use in the summer. And  
6 again, this is to meet all downstream uses,  
7 instream beneficial domestic, and unexercised  
8 rights.

9 WITNESS COLE: To --

10 MS. BRENNER: Unexercised rights? What  
11 are those?

12 MR. FISHER: They are the rights that  
13 would ultimately build a hydro system for my  
14 land.

15 MS. BRENNER: So you're asking for a  
16 solution for a new use --

17 MR. FISHER: Well, I've been asking  
18 this --

19 MS. BRENNER: -- your hydro use?

20 MR. FISHER: I've been asking for this  
21 all along.

22 How about this, Mr. Cole, just to the  
23 public trust impacts --

24 MS. BRENNER: I'm going to again object.

25 Any -- the issue of your new hydro use on Klamath

1 is not an issue for this hearing.

2 MR. FISHER: I'm trying. A remedy that  
3 meets --

4 HEARING OFFICER MOORE: So I'm going to  
5 make a suggestion --

6 MR. FISHER: Yes.

7 HEARING OFFICER MOORE: -- because it  
8 feels a little bit like a cart-horse situation  
9 here.

10 MR. FISHER: Okay.

11 HEARING OFFICER MOORE: A lot of what  
12 you're bringing up probably is best brought up  
13 with your direct testimony --

14 MR. FISHER: Okay.

15 HEARING OFFICER MOORE: -- or opening  
16 statement. That's the best I can do for this --

17 MR. FISHER: That sounds good. Okay.

18 HEARING OFFICER MOORE: -- because it  
19 sounds like, you know, you're leading down a path  
20 that wasn't part -- it wasn't noticed.

21 MR. FISHER: Okay.

22 HEARING OFFICER MOORE: But I have  
23 acknowledged --

24 MR. FISHER: Yeah.

25 HEARING OFFICER MOORE: -- in my comments

1 that the downstream water rights are always  
2 pertinent to these type of discussions.

3 MR. FISHER: Okay.

4 HEARING OFFICER MOORE: But you are  
5 taking it --

6 MR. FISHER: Let --

7 HEARING OFFICER MOORE: -- in a different  
8 direction. And maybe you can provide some clarity  
9 with your direct testimony.

10 MR. FISHER: Okay. Thank you. Yes, I'm  
11 trying to get to proposed remedies.

12 So, Mr. Cole, yesterday you indicated  
13 that you were willing to -- I guess, are you  
14 willing to comply with NMFS bypass flow  
15 recommendations?

16 WITNESS COLE: I'll restate what I just  
17 said earlier. My bottom line is survival of  
18 Marble Mountain Ranch, beneficial uses  
19 continuing, minimized impact on the resources,  
20 manageable physical solutions that don't fail in  
21 the first storm of other natural event, such as  
22 wildfire. So I'm looking for physical solutions  
23 that can be maintained and that have a longevity  
24 that I can predict, and that are also easily  
25 managed. I don't want to change points of

1 diversion. I don't want to install some physical  
2 solution which is going to cost a lot of money,  
3 fail in the first seasonal change. And so that's  
4 my bottom line.

5 I have a water right that we claim for  
6 three CFS. I have stated previously and will  
7 state again, the exact number of what I divert  
8 for beneficial use is not the bottom line for me.  
9 The bottom line for me is can we survive in a  
10 reasonable fashion, protect the resource, and  
11 find solutions? I have been operating on the  
12 presumption that that's out there.

13 MR. FISHER: Yeah. I understand.

14 WITNESS COLE: And --

15 MR. FISHER: This is --

16 WITNESS COLE: And they aren't mutually  
17 exclusive to you, only to the sense that they  
18 become mutually exclusive to who gets any  
19 effluent out of our hydroelectric plant, which is  
20 currently being beneficially used when we run it  
21 by --

22 MR. FISHER: Yeah.

23 WITNESS COLE: -- Blue Heron.

24 MR. FISHER: Okay. And are you willing  
25 to calculate -- to divert for domestic purposes

1 an amount limited to that which is based on the  
2 State of California standard calculations that  
3 were described in earlier testimony?

4 WITNESS COLE: I have to keep pastures  
5 green --

6 MR. FISHER: It's --

7 WITNESS COLE: -- dust abated, laundry  
8 washed, toilets flushed.

9 MR. FISHER: Right.

10 WITNESS COLE: It's a very --

11 MR. FISHER: Right. There's --

12 WITNESS COLE: It's -- that's what I  
13 need.

14 MR. FISHER: There's standard  
15 calculations for each of those uses.

16 WITNESS COLE: Yeah.

17 MR. FISHER: Are you willing to comply  
18 with those?

19 WITNESS COLE: Those numbers that were  
20 generated by both ECORP and by Joey are  
21 similar --

22 MR. FISHER: Okay.

23 WITNESS COLE: -- and I accept those. I  
24 mean, that's the standard.

25 MR. FISHER: Okay. And again, trying to



1 get at remedies, what, in your mind, went wrong  
2 when grant money was available to have a remedy?

3 WITNESS COLE: Which grant are we talking  
4 about, the --

5 MS. BRENNER: Time period?

6 MR. FISHER: The grant that would have  
7 implemented the Cascade Stream Solutions  
8 proposal, return flow, grants that would have --

9 MS. BRENNER: 2003? 2010? 2012?

10 MR. FISHER: I'm speaking -- this was  
11 over many years, the proposal to return the flow.  
12 What went wrong with the grant proposals?

13 WITNESS COLE: There have been several --  
14 there's been an ongoing effort to utilize grant  
15 monies for beneficial solutions and win-win  
16 alternatives.

17 The first failure was the 2004 grant  
18 which was going to return all of the hydro plant  
19 effluent to the Stanshaw Creek drainage above the  
20 point of anadromy, filling rewatering the  
21 refugial pool and, incidentally, providing you  
22 with pressurized power. That failed because  
23 funders did not want to put themselves at risk of  
24 suit with funding a project which, in their  
25 minds, had an undetermined water right validity.

1 That was the purpose of the Martha Lennihan  
2 Report.

3           We later then had a second substantial  
4 failure when we were trying to fund a piping of  
5 consumptive and domestic use water with a six-  
6 inch pipe, and on the day of funding were  
7 informed that, should we accept the money, that  
8 we would be required to relinquish any hydro  
9 plant diversions. This last-hour addition to the  
10 proposal was unsatisfactory. We denied the grant  
11 based on this surprise revelation that it was  
12 going to require us to abandon our pre-1914 water  
13 right, allowing us to use hydro plant, you know,  
14 hydro plant-generated electricity.

15           So -- and then we had our ongoing  
16 failures with staff abandoning the grant process  
17 because of the constant issuance of Cleanup and  
18 Abatement Orders or Streamside Solutions left us  
19 because of their unwillingness to get involved in  
20 mitigations and litigation. Our Mid Klamath  
21 Watershed projects were abandoned because of  
22 Cleanup and Abatement Order issues. So the  
23 regulatory process has, in a large regard, been  
24 detrimental to our process because grant funders  
25 apparently, I didn't know this, but apparently

1 they are, by policy, unable to fund projects  
2 which are in the middle of a cleanup order,  
3 abatement, or some sort of remediation that's --

4 MR. FISHER: Were you warned by the  
5 funding agencies that if this became an  
6 enforcement action, then public money would be  
7 off the table?

8 WITNESS COLE: No. This is something  
9 that was a surprise to me as it came out. We --

10 MR. FISHER: The --

11 WITNESS COLE: We got Cleanup and  
12 Abatement Orders immediately after the release of  
13 the final designation from -- as I recall, it was  
14 like the day after we got the evaluation on what  
15 our water right was. Funders can't get  
16 involved --

17 MR. FISHER: So grant --

18 WITNESS COLE: -- in grant proposals --

19 MR. FISHER: Okay.

20 WITNESS COLE: -- when we're under a  
21 Cleanup and Abatement Order.

22 MR. FISHER: So can you just explain a  
23 bit more? You rejected, you ultimately rejected  
24 or you at some point pushed -- rejected a  
25 proposal because it would require you to give up

1 your pre-'14 water right or --

2 WITNESS COLE: I was given a binary  
3 proposal: Accept a six-inch pipe being funded to  
4 install in our ditch line to convey domestic and  
5 consumptive water and reject our hydro plant  
6 generation uses, or do whatever I'm going to do  
7 to improve the ditch on my own and argue for  
8 ongoing hydro plant generation and the  
9 preservation of the full water right. It was an  
10 untenable situation. I can't accept -- even  
11 though it was free money, it would be free money  
12 to pipe something that was a partial solution, I  
13 mean free in the sense of I didn't have to come  
14 up with the money for the pipe, but it wasn't a  
15 full solution. And where that came from, I can't  
16 tell you.

17 MR. FISHER: What would have -- what  
18 would have made it complete, a full solution?

19 WITNESS COLE: Well, a consideration of  
20 the rest of the needs of the ranch, power  
21 generation. And that's my position. The hydro  
22 plant is a viable option for us, especially in  
23 high-flow times. Acceptance of a funding project  
24 or a grant funding for installation of a pipe  
25 that's going to require me to abandon my winter

1 hydro plant uses is an untenable solution. It had  
2 nothing to do with you --

3 MR. FISHER: Okay.

4 WITNESS COLE: -- that I'm aware of.

5 MR. FISHER: Well, I mean, I feel like we  
6 were trying, but thank you.

7 WITNESS COLE: Okay.

8 HEARING OFFICER MOORE: Okay. I'm under  
9 the impression, there probably won't be any more  
10 cross-examiners, but I'll just, for due  
11 diligence, check.

12 Klamath River Keeper? California  
13 Sportfishing Protection Alliance? No? PCFFA?  
14 No?

15 So I think you could use a break.

16 WITNESS COLE: Yeah.

17 HEARING OFFICER MOORE: And so I think  
18 all of us could.

19 So what I was going to propose is you'll  
20 have the opportunity to redirect testimony after  
21 we take a 15-minute break.

22 MS. BRENNER: Thank you.

23 HEARING OFFICER MOORE: You're welcome.

24 (Off the record at 11:05 a.m.)

25 (On the record at 11:25 a.m.)

1 HEARING OFFICER MOORE: It's been a  
2 little longer than 15 minutes. Our apologies,  
3 and thanks.

4 We'll now reconvene the proceeding, and  
5 we'll hand it over to Ms. Brenner for redirect  
6 testimony of Mr. Cole.

7 MS. BRENNER: Thank you.

8 REDIRECT EXAMINATION BY

9 MS. BRENNER: Doug, do you recall the  
10 conversations you've had regarding the Lennihan  
11 Report referencing a 1.16 CFS?

12 WITNESS COLE: I do.

13 MS. BRENNER: And the 12 -- December  
14 14th, 2017, do I have that -- no, December 17th,  
15 2014 stakeholder meeting in Orleans?

16 WITNESS COLE: I do recall it.

17 MS. BRENNER: And you had -- there was  
18 some conversation during that meeting regarding  
19 the 1.16 CFS; correct?

20 WITNESS COLE: Right.

21 MS. BRENNER: Does that rate allow Marble  
22 Mountain Ranch to function?

23 WITNESS COLE: Absolutely not.

24 MS. BRENNER: Were you trying to  
25 cooperate and come up with a physical solution

1 that day as part of the stakeholder process?

2 WITNESS COLE: Yes.

3 MS. BRENNER: Was any number ultimately  
4 agreed to during that meeting?

5 WITNESS COLE: No.

6 MS. BRENNER: Did the NMFS bypass flow  
7 recommendation come after that meeting?

8 WITNESS COLE: Yes.

9 MS. BRENNER: During Mr. Fisher's cross-  
10 examination, you indicated that you do not travel  
11 up and down Stanshaw Creek during high storm  
12 events, flood events; correct?

13 WITNESS COLE: That's correct.

14 MS. BRENNER: How do you know there are  
15 mudslides on Stanshaw Creek during or after storm  
16 events?

17 WITNESS COLE: Because the water coming  
18 into the ditch during those events arrives at the  
19 ditch in a muddy, sediment-carrying condition  
20 prior to its contact with our point of diversion.  
21 That's the first point.

22 The second point is on one occasion I,  
23 while working on the point of diversion, was  
24 watching as the hillside on the opposite side of  
25 Stanshaw Creek and downstream of the point of

1 diversion sloughed in front of me at that moment.  
2 That slough is still there and remains to be  
3 inspected, if Water Board wants to look at it.

4           A third point is that I have watched the  
5 ditch at times of low flow, most recently with  
6 the inspection done by Steve Cramer, and at other  
7 times and can observe and have observed numerous  
8 sloughs on both sides of the creek, but  
9 predominantly on the creek's right side which  
10 tends to have a steeper slope of inclination than  
11 the left -- than the left bank does.

12           So bank sloughs are observable by anybody  
13 that would choose to look at them and walk the  
14 ditch. I've seen them happen in the moment.  
15 I've seen them happen after the moment. And I've  
16 seen the effects of it at times when I've been on  
17 the ditch during high flows.

18           MS. BRENNER: During storm events and  
19 after large storm events, does Klamath River run  
20 brown?

21           WITNESS COLE: It's probably brown as we  
22 speak. It was brown the week that I left to come  
23 up here from the recent storms. And it's a piece  
24 of my survival for fishing is working around  
25 routine muddying of the Stanshaw -- or the



1 Klamath River because I cannot fish guide with a  
2 blown river, as we call it.

3 MS. BRENNER: Thank you. Are you able to  
4 currently comply with NMFS bypass flow  
5 recommendation?

6 WITNESS COLE: No.

7 MS. BRENNER: Can you return hydro water  
8 use back to the Klamath or back to the Stanshaw?

9 WITNESS COLE: There's no route for it to  
10 get back to Stanshaw.

11 MS. BRENNER: And you testified yesterday  
12 that in order to do that, it would be in excess  
13 of \$1 million?

14 WITNESS COLE: Yes.

15 MS. BRENNER: But you have agreed to the  
16 portion of the bypass recommendation of 2 CFS?

17 WITNESS COLE: Given other conditions, I  
18 can accept that.

19 MS. BRENNER: Okay. I'm going to go back  
20 to your responses to Mr. Petruzzelli yesterday.

21 You've indicated several times the bottom  
22 line is to enable your survival. Any solution  
23 has to enable your survival at Marble Mountain  
24 Ranch; correct?

25 WITNESS COLE: That's correct.

1 MS. BRENNER: And some of those suggested  
2 solutions are a hybrid solar-hydro system;  
3 correct?

4 WITNESS COLE: That's correct.

5 MS. BRENNER: Will a solar-hydro system  
6 alone meet all your energy demands, or do you  
7 need to also rely on diesel?

8 WITNESS COLE: Diesel has to be available  
9 for maintenance times and for emergency times  
10 when a system fails, but if solar, in a  
11 hypothetical world, solar, when the sun's out,  
12 i.e. summer, great hydro when the streams are  
13 flowing, i.e. winter, great, they mesh together.  
14 But in reality, there's times when they don't, so  
15 I might still have to have some backup diesel.

16 MS. BRENNER: And that would -- that  
17 hybrid solar-hydro would still require you to use  
18 the hydro?

19 WITNESS COLE: That's correct because  
20 the -- there's a lot of complications.

21 One is we don't have a guarantee that  
22 there's enough capacity on the ranch to place  
23 solar panels efficiently and number to run the  
24 system large enough that we're talking about.

25 Secondly, we have the issue of fog and

1 cloud cover which diminishes the capacity of the  
2 solar plant.

3 So there's complications that are not  
4 addressed in some of these preliminary estimates  
5 that we presented as evidence.

6 MS. BRENNER: So the solar installation  
7 costs could actually be more than estimated by  
8 Mr. Slater, just --

9 WITNESS COLE: I would expect them to be  
10 significantly higher.

11 MR. PETRUZZELLI: Quick administrative  
12 question. Should there be a time on the clock  
13 for this?

14 MS. BRENNER: No.

15 MR. PETRUZZELLI: Okay. Just checking.

16 WITNESS COLE: I would expect the actual  
17 installation to be significantly higher than what  
18 Hal Slater approximated for the purpose of his  
19 sale.

20 MS. BRENNER: And there was some  
21 discussion yesterday about warranties, correct,  
22 on the solar --

23 WITNESS COLE: Right.

24 MS. BRENNER: -- and batteries?

25 WITNESS COLE: Right.

1 MS. BRENNER: Are there also additional  
2 O&M expenses associated with such a system?

3 WITNESS COLE: I would presume so. You  
4 can't ever install something and have it be  
5 absent maintenance costs or operational costs.

6 MS. BRENNER: And the battery system that  
7 was suggested by Mr. Slater, it would be  
8 contained in what?

9 WITNESS COLE: You'd have to bring in a  
10 large cargo container, one of the shipping  
11 containers that you see, build a pad for it,  
12 establish an organizational system for the  
13 batteries in the cargo container, redistribute  
14 power lines through the ranch so that you could  
15 access the grid of the ranch from a different  
16 location, rather than the existing heart of the  
17 power plant which is one location for both diesel  
18 and hydro plant. So he's talking about an  
19 offsite, well, yeah, a third power source which  
20 it's -- with its own separate location.

21 MS. BRENNER: Okay.

22 WITNESS COLE: The integration would be  
23 fairly complicated.

24 MS. BRENNER: The integration of the  
25 various energy --

1 WITNESS COLE: Right.

2 MS. BRENNER: -- sources?

3 WITNESS COLE: Right.

4 MS. BRENNER: And just the integration of  
5 those various energy sources have been estimated  
6 at a minimum of another half a million dollars?

7 WITNESS COLE: That's what the  
8 electrician was getting at with his proposal.

9 MS. BRENNER: Are your efforts currently  
10 focused on lining or piping the first portion of  
11 your ditch so you can install a measuring device?

12 WITNESS COLE: Yes.

13 MS. BRENNER: Do you have any idea of the  
14 cost of that effort?

15 WITNESS COLE: Everything I look at seems  
16 to be around the magic number of a half a  
17 million. I don't know why that is. And these  
18 are all numbers that people throw out with these,  
19 and seeming impunity, plan on at least a half a  
20 million. We had an engineer's proposal to look at  
21 it, and the engineer's expected costs were going  
22 to be \$30,000 just for the analysis.

23 MS. BRENNER: Just for the design?

24 WITNESS COLE: Right.

25 MS. BRENNER: Do you recall if that

1 engineer's estimate was for the lining of the --  
2 the design to line the entire ditch, or just a  
3 portion?

4 WITNESS COLE: I don't.

5 MS. BRENNER: Okay. Would that effort  
6 require a 1600 Permit, do you know?

7 WITNESS COLE: I believe it would.

8 MS. BRENNER: Has CDFW been -- issued  
9 your Operations and Maintenance 1600 Application  
10 this last year?

11 WITNESS COLE: No.

12 MS. BRENNER: Does it make any sense to  
13 you to commit to a minimum of \$1 million-plus  
14 outlay for the electrical and solar system when  
15 you have no idea of the status of your ability to  
16 use the water for hydro?

17 WITNESS COLE: It doesn't make any sense  
18 at all. There's an open-ended, seemingly  
19 unending set of demands that are coming at me,  
20 and there's no seeming end to the -- to the  
21 issues that are here. So if I commit to a  
22 million-and-a-half or whatever and try to get  
23 that funded, that doesn't mean that all of the  
24 issues or concerns are going to be addressed.

25 MS. BRENNER: Do you have continued

1 disagreement with the Regional Board regarding  
2 the geoscientific evaluation of the ditch system?

3 WITNESS COLE: I do. They asked that we  
4 provide a professional survey of the facility for  
5 sedimentation. We did that. And from my  
6 understanding, the Water Board has disagreed with  
7 his professional evaluation, in spite of spending  
8 extended periods of time on the ditch and on the  
9 ranch, and his very thorough, professional  
10 evaluation.

11 MS. BRENNER: And are you referring to  
12 the Fiori report?

13 WITNESS COLE: I am.

14 MS. BRENNER: And did -- how many days  
15 did Mr. Fiori spend out at the ranch?

16 WITNESS COLE: Probably four or five full  
17 days of time, walking the ditch and exploring the  
18 geology in and around, below and above the ditch.

19 MS. BRENNER: Did he have additional  
20 people with him?

21 WITNESS COLE: He did.

22 MS. BRENNER: Do you recall Mr. Fiori  
23 prepared a LiDAR view of the ditch system?

24 WITNESS COLE: I do.

25 MS. BRENNER: And yesterday during your

1 cross-exam, you were asked where does any flow  
2 off the side of the penstock go using that LiDAR  
3 exhibit, Marble Mountain Ranch-12?

4 WITNESS COLE: I recall that.

5 MS. BRENNER: Where does that water go?

6 WITNESS COLE: The excess flow that does  
7 not enter the penstock, when it happens, proceeds  
8 down alongside the penstock in a legacy ravine  
9 and gets captured in an overflow pond, as we call  
10 it. So any gravel or sediment that might have  
11 been picked up along that line is captured there,  
12 and then that flow proceeds on down across the  
13 back of the ranch where it enters the pond. And  
14 any remaining sediment in that flow is captured  
15 again.

16 MS. BRENNER: Okay. Do you recall a  
17 photo of -- well, let's strike that.

18 When did you replace your water storage  
19 tanks on this -- on the ranch?

20 WITNESS COLE: 2016.

21 MS. BRENNER: Do you recall the cost of  
22 doing that?

23 WITNESS COLE: I have numbers here;  
24 \$33,503, those are hard costs. They do not  
25 reflect the labor to install it.



1 MS. BRENNER: Okay. Is that considered a  
2 capital cost?

3 WITNESS COLE: It is.

4 MS. BRENNER: Are capital costs  
5 depreciated?

6 WITNESS COLE: They are.

7 MS. BRENNER: Under the federal tax  
8 rules?

9 WITNESS COLE: Standard practices.

10 MS. BRENNER: Okay. So let's go back to  
11 the line of questioning by Mr. Petruzzelli  
12 regarding your tax returns.

13 WITNESS COLE: Okay.

14 MS. BRENNER: Do you recall that line of  
15 questioning?

16 WITNESS COLE: I do.

17 MS. BRENNER: Who prepares your taxes?

18 WITNESS COLE: Al Dorf, a CPA.

19 MS. BRENNER: Did, at some point, he  
20 suggest that you transition from a sole  
21 proprietor-type accounting system to a C Corp or  
22 an S Corp?

23 WITNESS COLE: To an S Corp, yes.

24 MS. BRENNER: And S Corp. And that's --  
25 your current accounting practices are in line

1 with an S Corp --

2 WITNESS COLE: Yes.

3 MS. BRENNER: -- system? Okay.

4 Do you recall, Mr. Petruzzelli pointed to  
5 several line items on your 2014 to 2016 federal  
6 tax returns; correct?

7 WITNESS COLE: Yes.

8 MS. BRENNER: Each time he noted the  
9 amount depreciated; correct?

10 WITNESS COLE: Yes.

11 MS. BRENNER: So when you purchase a  
12 piece of equipment or you construct something,  
13 like your filtration system, is that considered a  
14 capital asset --

15 WITNESS COLE: It is.

16 MS. BRENNER: -- for tax purposes?

17 WITNESS COLE: It is.

18 MS. BRENNER: So the direct expense of  
19 that particular asset, capital asset, it not  
20 detected in that year's tax return; correct?

21 WITNESS COLE: That's correct.

22 MS. BRENNER: Instead, it's depreciated  
23 over a number of years?

24 WITNESS COLE: That's correct.

25 MS. BRENNER: Do you recall what capital

1 expenses you did incur in 2016 that are not  
2 deducted from your taxable income on your federal  
3 tax form?

4 WITNESS COLE: Are you -- can I clarify?  
5 Are you asking what other expenses we had that  
6 are in the same category of capital expenses,  
7 such as the filter system?

8 MS. BRENNER: Yes.

9 WITNESS COLE: Yes. We bought several  
10 horses to replace some that had aged and had to  
11 be taken out of service. We had a vehicle  
12 failure. We had to purchase a new vehicle. We  
13 did an improvement on staff housing. We  
14 purchased a mini excavator so that we could do  
15 ongoing maintenance on the ranch property. Those  
16 are all expensed out.

17 MS. BRENNER: Those were expenses  
18 incurred that weren't fully --

19 WITNESS COLE: Oh, they were depreciated.

20 MS. BRENNER: They were depreciated --

21 WITNESS COLE: Right.

22 MS. BRENNER: -- expenses --

23 WITNESS COLE: Right.

24 MS. BRENNER: -- or they will be  
25 depreciated --

1 WITNESS COLE: Right.

2 MS. BRENNER: -- expenses? They weren't  
3 line item expenses --

4 WITNESS COLE: No.

5 MS. BRENNER: -- in your expense sheet?

6 In order to make the record clear, you've  
7 got to wait for me to finish my question.

8 WITNESS COLE: I'll wait.

9 MS. BRENNER: Do you know the total of  
10 those particular capital expenditures for 2016?

11 WITNESS COLE: Approximately \$70,000.

12 MS. BRENNER: Are loan payments for  
13 capital expenses deducted from your taxable  
14 income? In other words, you make loans on  
15 certain capital assets; correct?

16 WITNESS COLE: Right.

17 MS. BRENNER: And those capital assets,  
18 again, are depreciated over time; correct?

19 WITNESS COLE: Right.

20 MS. BRENNER: So the loan payments that  
21 are made on an annual basis are not -- are not  
22 deductible expenses; correct?

23 WITNESS COLE: That's correct.

24 MS. BRENNER: Do you know approximately  
25 how much loan payment you made during 2016 that

1 was not deducted from your tax return?

2 WITNESS COLE: Again, approximately  
3 \$70,000.

4 MS. BRENNER: Can you name a few of those  
5 items that compile that number?

6 WITNESS COLE: Ranch mortgage, ranch  
7 second mortgage, equipment payments, vehicles.

8 MS. BRENNER: Do you also have medical  
9 expenses that are not deducted from your tax  
10 return?

11 WITNESS COLE: I do.

12 MS. BRENNER: And what are those annual  
13 payments, or monthly payments?

14 WITNESS COLE: Roughly \$17,000 -- or  
15 \$1,700.

16 MS. BRENNER: So you have various other  
17 expenses that you incur over a year that are not  
18 reflected in your tax return?

19 WITNESS COLE: That's correct. The tax  
20 returns as presented here are a partial picture  
21 of my finances.

22 MS. BRENNER: Okay. You testified that  
23 the winter storm this past winter, 2016-17  
24 winter, there was severe storm activity on the --  
25 in your area?

1                   WITNESS COLE:    I do.

2                   MS. BRENNER:    Can you give just a brief  
3 summary of the major damage Marble Mountain Ranch  
4 incurred during that storm season?

5                   WITNESS COLE:    Yes.  We had an a-typical  
6 snow event, so literally thousands of trees were  
7 blown down by a heavy snow after a long series of  
8 rains when the trees are weakened, and after a  
9 long series of drought years.  So we had five  
10 large Doug firs hit one structure, totally  
11 demolishing it.  I had another large Doug fir hit  
12 one of our homes, peeling off the carport,  
13 requiring that building to be repaired and the  
14 roof to be replaced.  Our barn left wing was  
15 collapsed under the weight of the snow.  Doug  
16 firs lining the perimeter of our pasture were  
17 toppled, crushing fence lines on both sides of  
18 the pasture.

19                   The ditch line itself was fully impacted  
20 by down trees.  To illustrate the degree of  
21 impact, it took three-and-a-half hours to walk  
22 through the jackstraw (phonetic).  Massive trees  
23 from -- from car access point to the point of  
24 diversion when we first went up to survey the  
25 ditch after the storm -- we had to turn the ditch

1 off prior to the storm -- so in our walk up to  
2 survey, it was a three-and-a-half hour walk to go  
3 three-quarters of a mile.

4 MS. BRENNER: So you'll need to incur  
5 capital expenses --

6 WITNESS COLE: Yes.

7 MS. BRENNER: -- in order to repair  
8 those?

9 WITNESS COLE: Yes.

10 MS. BRENNER: And that layout of capital,  
11 or that layout of finances, won't be reflected in  
12 your next year's tax return? Those assets will  
13 be, then, depreciated again; correct?

14 WITNESS COLE: That's correct.

15 MS. BRENNER: Can Coho reach Marble  
16 Mountain point of diversion coming from the  
17 Klamath?

18 WITNESS COLE: No.

19 MS. BRENNER: Are there lakes above your  
20 point of diversion?

21 WITNESS COLE: There are wilderness lakes  
22 above, yes.

23 MS. BRENNER: Can I just take a quick  
24 second? I think I'm -- I think I'm done, but let  
25 me take a quick second.

1 (Pause in proceedings)

2 MS. BRENNER: Just a couple more.

3 Do you recall being asked by California  
4 Department of Fish and Wildlife's counsel about a  
5 site visit by Ms. Bull?

6 WITNESS COLE: I do.

7 MS. BRENNER: And that she observed fish  
8 in the pond?

9 WITNESS COLE: I do.

10 MS. BRENNER: Do you stock those -- that  
11 pond?

12 WITNESS COLE: Not at the time Ms. Bull  
13 was there. I have, in the 2016 year, stocked  
14 with triploid trout from the hatchery.

15 MS. BRENNER: Prior to stocking the pond,  
16 was it -- where would the fish come from?  
17 They're not coming from the Klamath; correct?

18 WITNESS COLE: No.

19 MS. BRENNER: So it's not Coho in the  
20 pond?

21 WITNESS COLE: No.

22 MS. BRENNER: I don't have anything  
23 further.

24 HEARING OFFICER MOORE: All right. Thank  
25 you, Ms. Brenner.



1           And at this time we open the proceeding  
2 to recross examination. We can begin with the  
3 Prosecution Team. A reminder that recross  
4 examination is limited to the scope of the  
5 redirect testimony.

6                           RE CROSS EXAMINATION BY

7           MR. PETRUZZELLI: So, Mr. Cole, I just  
8 have one set of questions for you.

9           Ms. Brenner wrapped up asking you about  
10 where fish would have come from -- where fish in  
11 your pond would have come from prior to stocking;  
12 do you recall that?

13           WITNESS COLE: I do recall.

14           MR. PETRUZZELLI: Okay. My question is,  
15 once a fish is in the pond, where would it go?

16           WITNESS COLE: Under current  
17 configurations, it would go nowhere. There's no  
18 exit, unless it goes up and enters a long set of  
19 culverts and enters -- goes out towards my  
20 pasture. Right now there's no connectivity with  
21 any -- any tributary.

22           MR. PETRUZZELLI: Swimming through  
23 culverts out to your pasture, is that good  
24 habitat for fish? Is that a good --

25           WITNESS COLE: I'm not sure what you're

1 asking.

2 MS. BRENNER: I think you  
3 mischaracterized his statement. He indicated  
4 there was no connectivity.

5 MR. PETRUZZELLI: No. I'm just -- no, he  
6 indicated that there's -- the only potential  
7 pathway out of the pond, I think he said, is  
8 swimming through some culverts and towards your  
9 pasture; was that -- was that correct?

10 WITNESS COLE: That's correct.

11 MR. PETRUZZELLI: Yeah. Would that be a  
12 good direction for a fish to swim to your  
13 pasture?

14 WITNESS COLE: It would be a lethal thing  
15 to do.

16 MR. PETRUZZELLI: I had a hard time  
17 hearing that.

18 WITNESS COLE: It would be lethal if --

19 MR. PETRUZZELLI: Lethal for the fish?

20 WITNESS COLE: -- and difficult to do  
21 because I rerouted the lower ditch line to avoid  
22 passage through the pond to address the long  
23 series of demands for testing on effluent water,  
24 which was prohibitive and costly. So I've now  
25 got a ditch line system which comes up and has a

1 bifurcation to take water into the pond, and then  
2 the mainstem of the lower ditch line proceeds  
3 through a long set of culverts, down towards the  
4 Irving Creek Outfall, so that there is no flow-  
5 through from the pond. There's a flow in --

6 MR. PETRUZZELLI: Uh-huh.

7 WITNESS COLE: -- and no flow out.

8 MR. PETRUZZELLI: So if a fish swam into  
9 the pond, as it may have done before stocking --

10 WITNESS COLE: Uh-huh.

11 MR. PETRUZZELLI: -- there was likely no  
12 way for that fish to escape the pond and survive?

13 WITNESS COLE: Correct.

14 MR. PETRUZZELLI: Okay. Thank you.

15 WITNESS COLE: Okay.

16 HEARING OFFICER MOORE: Thank you.

17 Next we're going to open up recross to --  
18 wait -- oh, okay, the National Marine Fishery  
19 Service.

20 MR. KEIFER: May I have a moment?

21 HEARING OFFICER MOORE: Yes, you may have  
22 a moment.

23 (Pause in proceedings)

24 RECROSS EXAMINATION BY

25 MR. KEIFER: Okay. I just have one or

1 two questions for you, Mr. Cole.

2 Do you recall testifying on redirect that  
3 you're concerned with enabling your survival and  
4 the survival of the ranch?

5 WITNESS COLE: I do recall that.

6 MR. KEIFER: How do you define survival?

7 WITNESS COLE: Not negatively adversing  
8 (phonetic) the operations, the finances, the  
9 essentially essence of or the general nature of  
10 the ranch. Survival under that term, for me,  
11 means not being forced to change business models  
12 drastically, and that the existing financial  
13 structure can be preserved.

14 MR. KEIFER: So if compliance with state  
15 water and wildlife laws would force you to change  
16 your business model, that would mean that the  
17 ranch would not survive?

18 WITNESS COLE: Well, you're asking for  
19 some hypotheticals here. So I consider changing  
20 my business model regularly in ways to benefit  
21 the ranch, such as do I need to add a new  
22 service, do I need to eliminate a service, do I  
23 need to change capacity, all these parameters.  
24 The essential nature of a dude ranch, the guide  
25 service, organic farm, those features need to be

1 preserved.

2 I'm not willing to, under my stewardship  
3 at the ranch, do a drastic change in business  
4 model to something that would, for hypothetical  
5 cases, take it to the green industry.

6 MR. KEIFER: That's all I have.

7 HEARING OFFICER MOORE: Thank you.

8 Department of Fish and Wildlife?

9 RECROSS EXAMINATION BY

10 MR. PUCCINI: Still good morning, Mr.  
11 Cole.

12 WITNESS COLE: Good morning.

13 MR. PUCCINI: You stated that fish from  
14 Stanshaw Creek get into and use your ditch and  
15 can move between your ditch and Stanshaw Creek.

16 What happens to the fish that are in the  
17 ditch when you dewater it in anticipation of  
18 storm events or for maintenance purposes?

19 WITNESS COLE: There are -- there are  
20 several locations where the -- where the ditch  
21 has a deeper -- it's a pool, and the fish migrate  
22 there.

23 MR. PUCCINI: Okay. Is it possible that  
24 some of the fish will be flushed out of the ditch  
25 to the two outfalls that you described?

1           WITNESS COLE:  If they did, they'd return  
2 back to Stanshaw Creek.  It's direct connectively  
3 to Stanshaw Creek.  So, yes, if they can get into  
4 the ditch, they can get back.  If they can enter  
5 the ditch from Stanshaw, they can return to  
6 Stanshaw three places, at the point of diversion,  
7 at one of -- at the first outfall, or at the  
8 second outfall.  All those are in direct  
9 connectively to Stanshaw Creek.

10           MR. PUCCINI:  So under normal conditions,  
11 without manipulating the outfalls or the weirs,  
12 they still have the ability to get through the  
13 outfall, or do you have to actually, for lack of  
14 a better description, lift the flashboard, open  
15 up that outfall for those fish to have access?

16           WITNESS COLE:  That would depend on the  
17 specifics of that day.  There are days when there  
18 is no water flowing over the outfall, the  
19 flashboards.  There are days when there is.  And  
20 it depends on what the flow up to that point is,  
21 so there could be anywhere from one, two or three  
22 points for fish to return to Stanshaw, if they  
23 were entrained in the -- in the ditch line.

24           MR. PUCCINI:  Is it conceivable or have  
25 you experienced or witnessed -- is it conceivable

1 that some of the fish that end up in the ditch  
2 perish as a result of that, quote unquote, trip  
3 into the ditch, either because they've left the  
4 outfall and it wasn't a happy return, or  
5 something in the ditch itself has caused --

6 MS. BRENNER: I'm going to object as  
7 hypothetical; vague.

8 MR. PUCCINI: I was asking if it's  
9 conceivable --

10 HEARING OFFICER MOORE: Do you --

11 MR. PUCCINI: -- based on his experience  
12 and knowledge of the ditch.

13 MS. BRENNER: Still object as  
14 hypothetical.

15 MR. PUCCINI:

16 Have you ever witnessed any dead fish in your  
17 ditch?

18 WITNESS COLE: No.

19 MR. PUCCINI: Okay. Thank you.

20 HEARING OFFICER MOORE: I'm going to --  
21 so that was a rephrase of the question --

22 MR. PUCCINI: Correct.

23 HEARING OFFICER MOORE: -- in response to  
24 the objection?

25 MR. PUCCINI: Correct.

1 HEARING OFFICER MOORE: So I'll overrule  
2 the objection.

3 MR. PUCCINI: Thank you.

4 Ms. Brenner made passing reference in her  
5 redirect on a permit from the Department of Fish  
6 and Wildlife for operation and maintenance of  
7 your ditch.

8 Is it your understanding that you need a  
9 permit from the Department to do maintenance work  
10 in your ditch?

11 WITNESS COLE: My understanding is that a  
12 permit to do maintenance and work in the ditch  
13 depends on where in the ditch I'm working. So if  
14 I'm within the bed and banks or somewhere outside  
15 that realm, then the permit structure is  
16 different or absent.

17 MR. PUCCINI: Are you aware that the  
18 section in the Fish and Game Code that governs  
19 issuance of that permit, which I'll represent as  
20 Fish and Game Code section 1602 applies to work  
21 that could, in some way, generally speaking,  
22 alter a river, stream or lake?

23 WITNESS COLE: Yeah.

24 MR. PUCCINI: Do you -- is it your  
25 opinion that your ditch is a river, stream or



1 lake?

2 WITNESS COLE: I don't know how to answer  
3 that. It's not a -- my ditch is not a river,  
4 stream or lake in its definition of a natural  
5 occurrence, but it does provide habitat.

6 MR. PUCCINI: Let me rephrase it. The  
7 question I'm asking is --

8 WITNESS COLE: Yeah.

9 MR. PUCCINI: -- if you did not have a  
10 permit from the Department, pursuant to the Fish  
11 and Game Code section, that specifically  
12 authorizes you to conduct maintenance work in  
13 your ditch, do you think you're precluded as a  
14 matter of law from doing that?

15 WITNESS COLE: My understanding is I can  
16 maintain the ditch outside the bed and banks of  
17 Stanshaw at my discretion. And my predecessors  
18 have and I continue to do that to -- under best  
19 management practices.

20 MR. PUCCINI: Okay. Thank you. That's  
21 great.

22 Can we queue up Exhibit WR-82? And can  
23 we go to page six, which I believe is Bate stamp  
24 number 2440? And move down just a little bit.  
25 Can I control this at this point or -- yes.

1 Okay.

2           You mentioned you're measuring culvert,  
3 where you measure the flow in Stanshaw units, is  
4 the maximum amount of water that you regulate at  
5 that measuring culvert three CFS?

6           MS. BRENNER: I'm going to object. It  
7 goes beyond the redirect questions.

8           MR. PUCCINI: Ms. Brenner mentioned  
9 excess flow into the pond, so I think it's within  
10 the scope of the redirect.

11           MS. BRENNER: I mentioned the -- where  
12 the outfall goes, under certain occasions, from  
13 the penstock. That's it.

14           HEARING OFFICER MOORE: This may be an  
15 outgrowth of the cross and not the redirect.

16           Was there -- was there something in the  
17 redirect you can connect this line of questioning  
18 to?

19           MR. PUCCINI: It overall has to do with  
20 the ditch capacity and the function.

21           MS. BRENNER: I didn't ask anything about  
22 the ditch capacity and function.

23           HEARING OFFICER MOORE: All right. I'll  
24 sustain the objection.

25           MR. PUCCINI: Okay. No further

1 questions. Thank you.

2 HEARING OFFICER MOORE: Thank you.

3 Next for recross will be the Karuk Tribe.

4 Mr. Hunt?

5 MR. HUNT: No. Nothing.

6 HEARING OFFICER MOORE: No? Okay.

7 And next for recross will be Old Man

8 River Trust.

9 RECROSS EXAMINATION BY

10 MR. FISHER: Was the Lennihan Report

11 conducted to resolve disputes between parties?

12 MS. BRENNER: Objection. Goes beyond the  
13 scope of the redirect.

14 HEARING OFFICER MOORE: Your redirect did  
15 discuss the Lennihan Report.

16 MR. FISHER: Specifically, whether -- you  
17 asked specifically whether its conclusions would  
18 allow Marble Mountain Ranch to stay in business.

19 MS. BRENNER: I asked about the 1.16 CFS  
20 discussion on 12/14/2017.

21 MR. FISHER: In the Lennihan Report.

22 HEARING OFFICER MOORE: Okay. Is this  
23 line of questioning related to the minimum flow  
24 rate?

25 MR. FISHER: It's related to --

1 HEARING OFFICER MOORE: What she asked  
2 about?

3 MR. FISHER: -- the Lennihan Report.  
4 It's related to the Lennihan Report, whether or  
5 not --

6 HEARING OFFICER MOORE: Yeah. Her  
7 line --

8 MR. FISHER: -- its conclusions would  
9 allow him to stay in business. Okay. That's --

10 HEARING OFFICER MOORE: Her line of  
11 questioning had more to do with his, you know,  
12 understanding of --

13 MR. FISHER: Okay. You --

14 HEARING OFFICER MOORE: -- those  
15 conclusions and the discussion at the time of a  
16 physical solution; am I right, Ms. Brenner?  
17 Yeah. That was really the context of that line  
18 of questioning.

19 MR. FISHER: Okay. So your question was,  
20 and correct me if -- your answer to the question  
21 posed to you, does one -- does 0.11 CFS cited in  
22 the Lennihan Report allow you to manage your  
23 ranch, and your answer was, no; is that correct?

24 WITNESS COLE: That's correct.

25 MR. FISHER: Could you manage your ranch

1 if you had an integrated solar and fossil fuel  
2 generator system without hydro if you had solar  
3 and generator, or just solar?

4 WITNESS COLE: It's a hypothetical. I  
5 don't have enough information to give you a  
6 concrete answer on.

7 MR. FISHER: You don't have enough info  
8 on solar systems to give an answer? Okay.

9 Could we -- could we pull up --

10 WITNESS COLE: I'd need the hydro to be  
11 operating regardless.

12 MR. FISHER: You have to have -- okay.  
13 So no matter what kind of solar system you  
14 have --

15 WITNESS COLE: We need the hydro in  
16 order --

17 MR. FISHER: -- you must have hydro?

18 Must you have hydro, even if you have  
19 solar and fossil fuel generator?

20 WITNESS COLE: Yes.

21 MR. FISHER: Okay. Could we pull up  
22 three hydro, OMR -- I'm sorry, OMRT-3? I would  
23 do it, but this mouse is not working very well.

24 MS. BRENNER: I'm going to object to this  
25 line of questioning. It goes beyond the

1 redirect.

2 HEARING OFFICER MOORE: Do you --

3 MR. FISHER: Your question was  
4 specifically about circumstances under which he  
5 could stay in business, quantity of water to stay  
6 in business. This is related directly to  
7 quantity of water to preserve his business,  
8 quantity of water necessary for hydro to preserve  
9 his business. I'll drop it. That's fine. I'll  
10 say it later.

11 HEARING OFFICER MOORE: Yeah. Again, I  
12 think your -- I mean, conjecture, but I feel like  
13 you're getting into your own direct testimony by  
14 bringing up your exhibit.

15 MR. FISHER: Thank you. Okay. Sorry.

16 Do you know what kind of fish are in the  
17 portion of your ditch on Forest Service land?

18 WITNESS COLE: Salmonids of undetermined  
19 species.

20 MR. FISHER: Do you know if your point of  
21 diversion in Stanshaw Creek is currently in  
22 compliance with Fish and Game Code section 1600?

23 WITNESS COLE: You'll have to forgive me,  
24 Konrad. I don't know what 1600 says.

25 MR. FISHER: When Brian Boyd came out and

1 told us, you've got to let water through to have  
2 fish passage, that's --

3 WITNESS COLE: It is.

4 MR. FISHER: -- Fish and Game Code  
5 section 1600. It is? Okay.

6 WITNESS COLE: It is in compliance.

7 MR. FISHER: Thanks.

8 HEARING OFFICER MOORE: Okay. And I  
9 believe Klamath River Keeper, CSPA and PCFFA are  
10 not present? I keep confirming this. Okay.

11 And at this point, I would actually open  
12 it up to Staff, if you have any questions. Do  
13 you want to take time or --

14 MS. WEAVER: Give me one second.

15 HEARING OFFICER MOORE: Okay. We're  
16 going to take just a moment.

17 (Pause in proceedings)

18 EXAMINATION BY

19 MS. WEAVER: I think we're ready. So I  
20 have a couple questions.

21 I want to ask you first, I recall you  
22 saying yesterday that this is your first time  
23 appearing in court.

24 WITNESS COLE: Uh-huh.

25 MS. WEAVER: Is that correct?

1 WITNESS COLE: Uh-huh.

2 MS. WEAVER: Okay. So let me just go  
3 over what Staff's role is here, because it's a  
4 little different from being cross-examined by  
5 other parties who may be adverse.

6 So we advise the Hearing Officer. We're  
7 neutral.

8 WITNESS COLE: Uh-huh.

9 MS. WEAVER: We ask our questions just  
10 to -- you know, if we thought something was  
11 interesting, or to fill in gaps in our  
12 understanding --

13 WITNESS COLE: Sure.

14 MS. WEAVER: -- just so you know.

15 WITNESS COLE: Sure.

16 MS. WEAVER: So -- and if you or your  
17 counsel have any concerns with our questions,  
18 then we'll figure out a way to ask a better  
19 question. Does that sound okay?

20 WITNESS COLE: Yes.

21 MS. WEAVER: Okay. I wanted to start by  
22 asking you, who visits the ranch? Where do they  
23 come from?

24 WITNESS COLE: We have a global audience.  
25 Thanks to the modern technology of the internet,



1 we have a reach that literally covers the globe.  
2 So a typical week at Marble Mountain Ranch might  
3 have California residents from L.A., San Diego,  
4 northern residents of Oregon and Washington, so  
5 West Coast visitors. We get a lot of East Coast  
6 visitors, Chicago, Florida. And then we have,  
7 almost every week, some portion of visitors from  
8 the UK. The Brits, for whatever reason, are keen  
9 on the Western culture --

10 MS. WEAVER: Okay.

11 WITNESS COLE: -- and cowboying up.  
12 Germany, likewise. So it's a global reach. And  
13 almost all European nations are represented in  
14 the guest profile, and to some degree some Asian  
15 nations.

16 MS. WEAVER: Are you competing in a  
17 global marketplace then, or primarily with local  
18 ranches?

19 WITNESS COLE: There are not -- if -- in  
20 the Dude Ranchers Association, those -- those  
21 ranches, California is represented by four  
22 ranches out of 120, by my recollection, ranches  
23 in the association, which cover Wyoming, Montana,  
24 Colorado and other classic western locations.

25 MS. WEAVER: Okay.

1           WITNESS COLE: I compete with them. And  
2 then I compete with the global audience for other  
3 non-ranch-related venues. So if somebody wants  
4 to take a cruise rather than a dude ranch, that's  
5 a competition. If they want to go to Club Med,  
6 Club Med versus visit Marble Mountain Ranch, that  
7 is a global competitor. So I have ranch  
8 competition and other recreational venues of  
9 different types that are also competition.

10           MS. WEAVER: Okay. Thank you. That's  
11 helpful.

12           WITNESS COLE: Uh-huh.

13           MS. WEAVER: You testified yesterday  
14 that, I mean, you're an owner-operator. You have  
15 a number of different roles on the ranch;  
16 correct?

17           WITNESS COLE: Can you clarify?

18           MS. WEAVER: Well, I think you mentioned  
19 you guide fly fishing.

20           WITNESS COLE: Oh, right.

21           MS. WEAVER: You're a short-order cook.

22           WITNESS COLE: Uh-huh.

23           MS. WEAVER: So you regularly interact  
24 with your visitors?

25           WITNESS COLE: That's our signature. We

1 are one of the rare small venues with authentic  
2 western experiences where the proprietors are  
3 face-to-face with the visiting guests, and that's  
4 our -- that's our claim to fame, in part. We are  
5 not a large venue. Some of the ranches, such as  
6 the Alisal near Solvang, host 200 guests. We  
7 host a small venue, so that we can have that  
8 personal interaction and be a, what we advertise,  
9 family operated ranch in the true sense.

10 MS. WEAVER: All right. Do visitors ever  
11 ask you about the ditch or the history of the  
12 ditch or the hydropower system?

13 WITNESS COLE: It's a very interesting  
14 point to visitors. Our guests are intrigued by  
15 the very concept of being off the grid. It's an  
16 inconceivable point for a lot of people to get  
17 onto the ranch and realize that they can't turn  
18 on their cell phone. And the idea that they can  
19 be in a location with no cell coverage, with no  
20 police force, with no power grid supply, it's a  
21 novel concept which some people can't handle, and  
22 so they choose to go elsewhere.

23 Other people consider that to be a  
24 desirable effect, and the need to disconnect is a  
25 marketing point to where families come, they take

1 advantage of the solitude. They become a part of  
2 the western culture and the natural resources of  
3 that environment.

4           The history and the specifics of the  
5 power plant are always an intriguing point to  
6 visitors to try to understand what's happening.

7           MS. WEAVER: Okay. So we've talked today  
8 and yesterday about it's important for you to  
9 ensure the survival of your business to maintain  
10 its character as a dude ranch.

11           WITNESS COLE: Right.

12           MS. WEAVER: Is having the ditch as --  
13 you know, it's old, it has this interesting  
14 history, is that -- do you see that as being part  
15 of the character of your ranch as a dude ranch,  
16 or is the ditch is a way to get power and water?

17           WITNESS COLE: Well, yes, it is a piece  
18 of the culture. I have a page on the history of  
19 the ranch on our website, which people are  
20 directed to, so that they can read about the  
21 evolution of the ranch business and the related  
22 cultural changes over the last two centuries. So  
23 our visitors, when they come from distant  
24 locations, are getting there in the hopes of  
25 seeing and experiencing and understanding the

1 history, the Gold Rush. People are fascinated by  
2 the Gold Rush, which is the -- what the -- what  
3 the ditch is all about. I can take them to the  
4 last remaining mining pit, and we ride right  
5 through it on horseback.

6 And so that's a piece of the experience,  
7 is the cultural edification and connect with the  
8 western history and the experience there in the  
9 Klamath National Forest.

10 MS. WEAVER: Thank you. How many hours  
11 do you work in a typical week during the  
12 visitor's season?

13 WITNESS COLE: Sunup until sundown every  
14 single day. I don't know if you can understand  
15 this without being an entrepreneur, I don't know  
16 your background, but I literally get up at 5:30  
17 and am on the job until my head hits the pillow  
18 somewhere 10:30 and 11:00. All of that time is  
19 in preparation for guests arrival when they wake  
20 up and come to their first meal or activity,  
21 followed by direct guest interactions, teaching  
22 shooting at the shooting range, white water  
23 rafting with them on the river, leading a trail  
24 ride, instructing them in how to fly fish.

25 So I'm in the public eye and on the job

1 from the minute my eyes open until they shut, and  
2 that's the true -- the scenario for all of my  
3 family. And that's part of the life that we  
4 enjoy and live. I mean, it's pretty rugged in  
5 season, and we catch our breath in the off  
6 season, now, as we're entering into it. And  
7 that's the time when we market the business, do  
8 our repairs and improvements as needed for the  
9 anticipated coming season.

10           So it's kind of a throwback to a 150-  
11 year-old nuclear family on a ranch out on the  
12 plains. You had to work from sunup until sundown  
13 as 100-year-old ranching family if you wanted to  
14 have food to survive the winter.

15           MS. WEAVER: What percentage of your time  
16 in a typical week would you say that you spend on  
17 the issues we've been talking about today, so  
18 water right issues, meeting with government  
19 agencies or other parties who have concerns  
20 about --

21           WITNESS COLE: Recently it's been almost  
22 an unbearable intrusion. The intrusion has  
23 diminished my capacity to operate my business  
24 because I have to sit on the phone and counsel  
25 with my attorney, respond to the latest threat,

1 plan on how we can respond, figure out what we're  
2 going to do to try to mitigate whatever that  
3 issue is. And so I have time expenses that are a  
4 significant intrusion, fiscal expenses.

5           And the emotional expense, there's no  
6 cost to put on that. My health is diminished.  
7 My family's health is diminished. My family are  
8 in anxiety about their future. My children and  
9 my grandchildren are in anxiety about the future  
10 of the ranch because it's a piece of their family  
11 history. So the impact is far, far beyond what  
12 you might expect by looking at a balance sheet  
13 and the cost.

14           If I have one threat to my life that is  
15 the most -- I can endure natural forces, snow  
16 downs and firefighters -- forest fires, easier  
17 than I can endure this process. I would rather  
18 be in the middle of a forest fire. I know what  
19 I'm dealing with then. I can see where it's  
20 likely going to go. I have no way to calculate  
21 how this is going to go or if ever it will end,  
22 and that has an incalculable cost on our family's  
23 psyche and our capacity to survive.

24           Early on in my career if somebody offered  
25 to buy my ranch, I would have flatly said, no.

1 As time evolves, my capacity to withstand this  
2 process is withered and I start to fantasize  
3 about maybe there's an alternate for me and my  
4 family. Shall we find another place to be?  
5 Shall we give this up? Can I survive.

6 I've been here -- as soon as the doors  
7 opened, because I can't sleep. And I'm sitting  
8 my chair, waiting for this meeting to start so  
9 that I can hurry up and get it done. I have to  
10 have an end.

11 MS. WEAVER: I appreciate that. And  
12 thank you for being here today to answer our  
13 questions.

14 I have a quick housekeeping item before  
15 we get to that.

16 You had mentioned, I think, there's a  
17 mortgage and second mortgage, and those  
18 constitute part of your expenses. Do you -- and  
19 if you don't know, that's fine, but do you happen  
20 to know what year those are anticipated to be  
21 paid off?

22 WITNESS COLE: I recently refinanced the  
23 mortgage to a 15-year loan. I believe that was a  
24 year-and-a-half to two years ago. So if things  
25 go successfully, I might have my mortgage paid



1 off in 13 years.

2 MS. WEAVER: And for the second mortgage?

3 WITNESS COLE: I don't recall.

4 MS. WEAVER: That's fine.

5 So if we could pull up MMR-12, page 4?

6 It's the -- it should be the LiDAR images.

7 (Document displayed on screen)

8 So do you recall yesterday, Mr.

9 Petruzzelli asking you questions about the  
10 penstock, and then a mark near the penstock that  
11 you described as a legacy ravine?

12 WITNESS COLE: Yes, I do recall.

13 MS. WEAVER: Okay. Thank you. What I'm  
14 going to do, this is just to have a clear record  
15 because you had indicated it with the mouse, so  
16 I'm going to bring down a printout of this exact  
17 page. And then if -- after confirming that it's  
18 the same thing, if you could just mark what you  
19 indicated yesterday to the best of your  
20 recollection?

21 WITNESS COLE: Sure.

22 MS. WEAVER: Let me come down.

23 (Pause in proceedings)

24 MS. WEAVER: So let me know when you're  
25 ready.

1 WITNESS COLE: Okay. Go ahead.

2 MS. WEAVER: Does this look like the  
3 exhibit that you talked about?

4 WITNESS COLE: Yes.

5 MS. WEAVER: Okay. Can you mark in  
6 blue -- if you could just circle the penstock and  
7 the ravine feature that you were talking about?

8 (Pause in proceedings)

9 WITNESS COLE: Okay.

10 MS. WEAVER: Okay. And if you could just  
11 give that to Mr. Buckman, we'll mark that as  
12 SWRCB-2, just for clarity, in case it comes up.

13 (SWRCB Exhibit 2 is marked.)

14 MS. WEAVER: Thank you.

15 WITNESS COLE: Okay. I marked on that  
16 sheet the ravine, as well as the capture pond  
17 which is noted on this LiDAR map and not  
18 identified. If you'll look right above the  
19 capital M for the word Marble, you can see a  
20 feature which is right at the approximate 90-  
21 degree angle of the penstock blue with the lower  
22 ditch line blue. And if you can -- I marked it  
23 on the page that I gave you.

24 MS. WEAVER: I can see it.

25 WITNESS COLE: Okay.

1 MS. WEAVER: Thank you.

2 WITNESS COLE: That is a capture pond, so  
3 that any overflow that moves down our property  
4 prior to entering into the lower ditch line has  
5 an opportunity for settling of any captured  
6 sediment. It's a feature not identified, but is  
7 significant to this discussion.

8 MS. WEAVER: Thank you. I'm going to --  
9 that's it for my questions. I'm going to pass to  
10 Ms. Irby.

11 MS. IRBY: Good afternoon, Mr. Cole.

12 WITNESS COLE: Good afternoon.

13 MS. IRBY: I have just a few questions.

14 EXAMINATION BY

15 MS. IRBY: Do you recall in your  
16 testimony describing a hydropower system at Blue  
17 Heron Ranch?

18 WITNESS COLE: I do.

19 MS. IRBY: Could you give us a little  
20 more detail about how that works and where they  
21 connect into your system?

22 WITNESS COLE: Yes. If you look at the  
23 same LiDAR image that we have on display right  
24 now and look to the edge of that, you can see the  
25 outfall point that's under discussion in previous

1 testimony where the ditch line drops off and  
2 heads towards a tertiary stream, which ultimately  
3 connects with Irving. So the Blue Heron has a  
4 capture point right at the base of that outfall.  
5 And the water is captured in storage tanks and  
6 then transferred through a ground-laid PVC pipe,  
7 and then ultimately carried across Irving Creek  
8 in an aerial-suspended pipe, and then it  
9 continues on over to the Blue Heron Ranch across  
10 the highway, underneath -- I believe it goes  
11 underneath the Highway 96 bridge.

12           And so effluent that leaves Marble  
13 Mountain Ranch continues into that permitted  
14 system and provides beneficial use to the Blue  
15 Heron via their hydroelectric plant.

16           MS. IRBY: So the water is picked up  
17 directly following the headcut outfall?

18           WITNESS COLE: That's correct.

19           MS. IRBY: Okay. Thank you. Do you  
20 recall stating that the capacity of your ditch is  
21 three CFS?

22           WITNESS COLE: I do.

23           MS. IRBY: How did you come to that  
24 conclusion?

25           WITNESS COLE: Measurements over a long

1 series of time, you know, checking it at the  
2 point where I have the Stanshaw diversions,  
3 checking it for various other purposes in  
4 response to Water Board requests, measurement of  
5 the size and shape of the ditch geology and  
6 measuring velocities. I have a swoofer meter and  
7 I use that regularly in determining flows.

8 MS. IRBY: But this isn't correlated with  
9 the Stanshaw units you described?

10 WITNESS COLE: Not -- the Stanshaw unit  
11 system I created as a quick assessment tool, so I  
12 can drive to the point on a moment's, excuse me,  
13 on a moment's notice, see what I have in Stanshaw  
14 units, and have an understanding of what we're  
15 capturing. That's separate from taking the time  
16 to fire up and run a swoofer and do a calculation  
17 and come up -- come up with a more accurate  
18 number. That's a daily operational tool, the  
19 Stanshaw unit.

20 MS. IRBY: Would you consider three CFS  
21 to be the maximum capacity of the ditch?

22 WITNESS COLE: I would. If I start to  
23 get beyond three CFS, then I'm at risk of  
24 overtopping, so I don't go there. That's what  
25 the ditch has carried historically and that's

1 what we claim as our right.

2 MS. IRBY: Okay. Thank you.

3 WITNESS COLE: All right.

4 HEARING OFFICER MOORE: On this point,  
5 Ms. Irby, I just, I appreciate your answer to the  
6 question, but I would like to know if that  
7 measurement of the ditch capacity has ever been  
8 confirmed by an engineer and otherwise qualified  
9 professional?

10 WITNESS COLE: That's been measured by  
11 stream -- Cascade Stream Solutions, I believe, as  
12 well as Mid Klamath Watershed Council has looked  
13 at the ditch and the outflow -- the measurements  
14 of the intake. So there was a period where,  
15 under grant funding, Mid Klamath Watershed  
16 Council was doing flow measurements at the point  
17 of diversion and below the point of diversion,  
18 getting data for what we were capturing during  
19 that year. So they have, as an independent  
20 party, got that data.

21 HEARING OFFICER MOORE: Okay. Thank you.

22 WITNESS COLE: All right.

23 MS. IRBY: In your testimony you  
24 mentioned considering possibly expanding the  
25 ranch?

1 WITNESS COLE: Correct.

2 MS. IRBY: Have you looked into other  
3 alternatives, such as raising rates for your  
4 guests?

5 WITNESS COLE: Raising rates?

6 MS. IRBY: To raise funds for  
7 improvements at the ranch?

8 WITNESS COLE: The rate structure for the  
9 ranch is a constant thought process for us as we  
10 try to find out niche in the world of  
11 competition. So a high-end luxury ranch, such as  
12 Brush Creek Ranch, if I can remember correctly,  
13 they have an equivalent daily rate of, I'd say  
14 several hundred dollars a day per person. I  
15 cannot exceed my competitors price without having  
16 some arguable return to the potential investor.

17 So my rate -- my rate structure is  
18 evaluated based on an analysis of what we think  
19 we can ask from the public and the cost of our  
20 services. We have a high-value service and we do  
21 regularly raise the prices based on inflation and  
22 on competition.

23 So that's -- the answer is, yes. Now, I  
24 analyze that. We did just raise our price, which  
25 is published on the website, so that people can

1 see what the 2018 rate will be. And that's not  
2 based on an attempt to capture more money for  
3 water rights improvements. It's based on my  
4 existing expense profile and, you know,  
5 competitive pressures.

6 MS. IRBY: Okay. One last question.

7 Do you recall testifying to the use of  
8 power in winter to heat buildings on the  
9 property?

10 WITNESS COLE: I do.

11 MS. IRBY: Are those only occupied  
12 buildings?

13 WITNESS COLE: Typically, when we go into  
14 a winter, we do a shutdown mode. So if Cabins 1  
15 through 5, hypothetically, are not going to be  
16 used, we will shut off the water to avoid  
17 freezing issues, and electricity is not required  
18 for them.

19 If we decide that we want to keep Quails  
20 Nest and Sleepy Hollow, our deluxe homes, open  
21 and available for a B&B experience, then those  
22 need to be heated. And guests that visit during  
23 that time frame might want to have a wood stove  
24 experience to have a piece of the, you know, the  
25 experience of being in the woods, and so they



1 burn wood. But that's typically an adjunct to  
2 propane or electrical heat in the cabin.

3 And then as we go through the winter, our  
4 dining lodge and other facilities need to be  
5 heated by electricity because we don't have wood  
6 heat or propane heat available in all of the  
7 structures.

8 MS. IRBY: Okay. Thank you.

9 WITNESS COLE: It's also a cost issue.  
10 You know, when the hydro plant is available the  
11 point is it doesn't require me to burn propane.

12 MS. IRBY: Thank you. That's all my  
13 questions.

14 HEARING OFFICER MOORE: Okay. We don't  
15 have any further questions. Thanks for your  
16 patience with us --

17 WITNESS COLE: Sure.

18 HEARING OFFICER MOORE: -- in our  
19 questioning. We appreciate you being here. And  
20 we hear you as far as, you know, the human  
21 aspects of all of this.

22 WITNESS COLE: Thank you for that.

23 HEARING OFFICER MOORE: And thank you for  
24 your commitment to working with the neighbors.  
25 It's been evident in your testimony, and that's

1 the way all of our water rights issues around the  
2 state are best worked out. And so I applaud your  
3 efforts to work with folks.

4 So with that, I wanted to request that  
5 Douglas and Heidi Cole and Marble Mountain Ranch  
6 offer exhibits into evidence.

7 MS. BRENNER: Yes. We'd like to offer  
8 all the exhibits submitted into evidence.

9 HEARING OFFICER MOORE: And for the  
10 parties here present, does anyone have any  
11 objections? No objections.

12 So now, for the record, the exhibits from  
13 MMR are entered into the record.

14 (All MMR Exhibits are received.)

15 HEARING OFFICER MOORE: And with that,  
16 we're going to -- okay. Well, we've gone a  
17 little late this morning. It's about 12:32. And  
18 I'm going to suggest, before we go to National  
19 Marine Fishery Service's opening statement and  
20 direct testimony, we take a break for lunch. As  
21 we've said in the notice, we'll take 60 minutes.  
22 If you -- if we could be back here at 1:30, it's  
23 58 minutes, but I hope you understand. We're  
24 trying to get through this.

25 So, yes?

1 MS. BRENNER: Could I address some  
2 housekeeping?

3 HEARING OFFICER MOORE: Yes, before we  
4 break?

5 MS. BRENNER: My understanding --

6 HEARING OFFICER MOORE: Yes.

7 MS. BRENNER: Yeah. My understanding,  
8 once we get back we'll have three hours  
9 remaining?

10 HEARING OFFICER MOORE: Yes.

11 MS. BRENNER: Can we get any estimate of  
12 the time period for the remaining direct  
13 testimony?

14 HEARING OFFICER MOORE: Sure. Let's see.  
15 My script, I'll have to -- it looks like we've  
16 set aside an hour on National Marine Fishery  
17 Service, but as we've seen, we don't always take  
18 that much time, so that would be an hour. But,  
19 yeah, you know, we could -- would you like us to  
20 come back with a more definitive answer?

21 MS. BRENNER: Yeah. We can discuss it at  
22 the end -- when we return.

23 HEARING OFFICER MOORE: Okay.

24 MS. BRENNER: I have a concern. I have  
25 another hearing about five hours from here

1 tomorrow.

2 HEARING OFFICER MOORE: Okay.

3 MS. BRENNER: So -- on a schedule that I  
4 did not have any control over, so --

5 HEARING OFFICER MOORE: Sure. And, yes,  
6 we're all -- we want to accommodate folks'  
7 schedules, so -- to the extent practicable.

8 So we'll, Hearing Team, we'll figure --  
9 we'll come up with some estimates of time. We  
10 have placeholders in our script, but we can  
11 refine them, maybe discuss with the parties your  
12 estimates of time. But it's not an exact  
13 science. Okay.

14 All right, well let's break for lunch and  
15 we'll reconvene at 1:30 p.m. Thank you.

16 (Off the record at 12:33 p.m.)

17 (On the record at the 1:30 p.m.)

18 HEARING OFFICER MOORE: We're doing our  
19 level best to stay on track. And I was just  
20 telling Ms. Brenner, as an answer to her  
21 question, we calculated four hours based on  
22 allowances that are within the proceedings, so  
23 for the three -- four hours for the three hours.  
24 But as we've learned, not everybody takes all of  
25 their time.

1 But -- so, yes, Ms. Brenner?

2 MS. BRENNER: Yeah. But then we also  
3 have rebuttal.

4 HEARING OFFICER MOORE: Right.

5 MS. BRENNER: So it's not likely we'll be  
6 concluding today?

7 HEARING OFFICER MOORE: Not likely.

8 MS. BRENNER: And so I've got a conflict  
9 with tomorrow. So if we have a hard stop at  
10 4:30, I don't know if we need some time to talk  
11 about scheduling beyond today?

12 HEARING OFFICER MOORE: Okay. We have --  
13 and how about Friday?

14 MS. BRENNER: Friday, I can be back here.  
15 It will be a strain, but a late start Friday  
16 would be helpful, since I've got so much -- I've  
17 got eight, nine hours traveling time involved  
18 here.

19 HEARING OFFICER MOORE: Yeah. So, you  
20 know, we have the room Thursday and Friday, if we  
21 need it. And, you know, there's a logistics  
22 angle to all this in terms of getting a venue,  
23 which we went through, and even getting this room  
24 for this time.

25 Well, we can -- I'll confer with my team,

1 you know, about that. You know, if -- is  
2 there -- so you can't have someone stand in for  
3 you?

4 MS. BRENNER: No.

5 HEARING OFFICER MOORE: Because, I mean,  
6 you know, we noticed these days. You know, we  
7 want to be able to work with you.

8 MS. BRENNER: Yeah. And like I said, I  
9 wasn't -- I had no control over this other  
10 hearing. Yeah, I wish I could.

11 HEARING OFFICER MOORE: Uh-huh. Well, we  
12 have Friday.

13 So, you know, I don't know if the Hearing  
14 Team, if you want to confer about this right now?

15 (Whereupon, Hearing Team confers in sidebar.)

16 HEARING OFFICER MOORE: Yeah.

17 MR. PUCCINI: Can I just say something  
18 really quickly on behalf of the Department?

19 HEARING OFFICER MOORE: Sure.

20 MR. PUCCINI: We understand the situation  
21 for Ms. Brenner. It is important to our  
22 witnesses that they not have to stay over, for  
23 example, until Friday. We were hoping to be done  
24 today because they have hardships as well in  
25 terms of travel.

1 HEARING OFFICER MOORE: Right.

2 MR. PUCCINI: So were DFW to be finished  
3 today, that would be terrific. We'll do our  
4 best.

5 HEARING OFFICER MOORE: Uh-huh.

6 MR. PUCCINI: But it would be a hardship  
7 if we had to have them either go back and come,  
8 you know, et cetera.

9 HEARING OFFICER MOORE: Right.

10 MR. PUCCINI: Not to -- so, thank you.

11 HEARING OFFICER MOORE: Right. Thank you  
12 for giving us that statement.

13 Mr. Hunt?

14 MR. HUNT: The same scenario applies for  
15 Karuk Tribe.

16 HEARING OFFICER MOORE: Yeah.

17 MR. HUNT: I'm sure it applies for  
18 others, as well. And I understand Ms. Brenner's  
19 issues, but as -- whatever decision you make I  
20 just -- you know, keep -- bear all of that in  
21 mind, including a late start Friday doesn't  
22 necessarily -- you know, my people want to get  
23 back to where they're going, which is the seven-,  
24 eight-hour drive that you're talking about --

25 HEARING OFFICER MOORE: Uh-huh.

1           MR. HUNT:  -- having to do.  And so then  
2 we're talking into Saturday, and like all kinds  
3 of other issues that come up.

4           HEARING OFFICER MOORE:  Okay.

5           MR. FISHER:  The same would apply for me.  
6 Holding pattern tomorrow would make my work life  
7 on Friday very difficult --

8           HEARING OFFICER MOORE:  Uh-huh.

9           MR. FISHER:  -- to come down that early.

10          HEARING OFFICER MOORE:  Okay.  Yeah, I  
11 think we need a little more information about  
12 changing the schedule that was noticed in terms  
13 of how long did you -- you know, when did you  
14 become aware of this schedule change?  You know,  
15 could we not have been briefed on this sooner  
16 than now, given that we've had this scheduled for  
17 many months?  And why can't you have somebody  
18 stand in for you?

19          MS. BRENNER:  That's a client preference.  
20 It's a long case that I've been directly involved  
21 in.  I will see what I can accommodate in that  
22 regard, but can't make any promises.

23                   And based on some of the initial time  
24 frames, et cetera, and discussions on this  
25 hearing, it was contemplated first as a day, two



1 days. I thought three, plenty of time, frankly.

2 Again, this was scheduled about a couple  
3 weeks ago, and by folks that I have no control  
4 over. In other words, it's another  
5 administrative body that sets that schedule, just  
6 as you had set that schedule, which we had wanted  
7 to be done at a different time period, as well.  
8 So it's a hardship for Mr. Cole to be here in the  
9 first place.

10 HEARING OFFICER MOORE: Yeah.

11 MS. BRENNER: So --

12 HEARING OFFICER MOORE: I'm sorry, that's  
13 not relevant.

14 MS. BRENNER: So, I mean, we've been --  
15 you know, I've been dealing with several schedule  
16 issues --

17 HEARING OFFICER MOORE: Yeah.

18 MS. BRENNER: -- along this hearing. So  
19 let me see what I can do on the other end --

20 HEARING OFFICER MOORE: Okay.

21 MS. BRENNER: -- during a break, and we  
22 can go from there.

23 HEARING OFFICER MOORE: Okay. We want to  
24 work with you, it's just a lot of moving parts, a  
25 lot of people, a lot of schedules and sacrifices,

1 not just Mr. Cole. Okay.

2 Yes?

3 MS. WEAVER: Just out of curiosity, is  
4 your co-counsel licensed in California?

5 MS. BRENNER: For which case?

6 MS. WEAVER: The woman sitting next to  
7 you.

8 MS. BRENNER: Yes. Ms. Fuller is a  
9 licensed attorney in California. However, she  
10 has never done a hearing like this. She has  
11 never cross-examined, direct examined any  
12 witness. This is her first time being in any  
13 hearing process like this.

14 MS. WEAVER: That's helpful. Thank you.

15 MR. FISHER: Just -- I just want to say,  
16 I've blocked out five days of my life. I've  
17 hoped it would be done sooner, but that's what  
18 was on the notice, and it's a hardship for me, as  
19 well.

20 HEARING OFFICER MOORE: Okay. Well,  
21 let's move along. And we'll continue to take  
22 that matter into consideration.

23 So we'll now hear the National Marine  
24 Fishery Service's opening statement and direct  
25 testimony, followed by any cross-examination in

1 the order I previously identified. Redirect and  
2 recross examination of the witnesses may then be  
3 permitted.

4 And at this point, Mr. Keifer, please  
5 approach. And there's -- we have witnesses. And  
6 so --

7 (Whereupon, SWRCB Panel confers in sidebar.)

8 HEARING OFFICER MOORE: So please proceed  
9 with your opening statement.

10 OPENING STATEMENT BY

11 MR. KEIFER: Just a couple of very brief  
12 remarks before we get to testimony.

13 Death of a thousand cuts. Conservation  
14 biologists like to describe the decline of  
15 species headed towards extinction as suffering  
16 slow death from a thousand cuts. There's no  
17 doubt that there are some cuts that are deeper  
18 than others. This is true in the Klamath Trinity  
19 System, but that's of no consequence to the  
20 issues before the Board.

21 We're here to discuss whether the Marble  
22 Mountain Ranch, their diversions and operations,  
23 are having an impact on public trust resources.  
24 And the evidence that we have submitted thus far  
25 and are going to summarize in a few moments will

1 establish that there are adverse impacts, not  
2 only to Coho that are listed under the Federal  
3 Endangered Species Act which are our  
4 responsibility, but also to other public trust  
5 resources, fish that are not currently listed  
6 under the Federal ESA.

7           Our first witness -- you're going to go  
8 first, Shari?

9           Shari is going to discuss those impacts  
10 from the perspective of her professional  
11 biological expertise.

12           And our second witness, Margaret Tauzer,  
13 who was the principal author, although it was a  
14 collaborative effort, of the recommendations  
15 outlined in our August 2016 letter, which is both  
16 a NMFS exhibit and an MMR exhibit. Margaret is  
17 going to explain them from the perspective of her  
18 engineering perspective.

19           Because there's a significant overlap and  
20 melding of the two, they'll be available for  
21 cross as a panel.

22           So with that --

23           HEARING OFFICER MOORE: Okay. And we're  
24 going to get into direct testimony now?

25           MR. KEIFER: Yes.

1 HEARING OFFICER MOORE: So I would --  
2 will the witnesses testifying please stand?

3 (Witnesses are sworn.)

4 WITNESS WHITMORE: Yes, I do.

5 WITNESS TAUZER: Yes, I do.

6 HEARING OFFICER MOORE: Thank you. You  
7 may be seated.

8 And, Counsel, please proceed.

9 SHARI WHITMORE,  
10 called as a witness for National Marine Fishery  
11 Service, having been previously duly sworn, was  
12 examined and testified as follows:

13 DIRECT TESTIMONY BY

14 MR. KEIFER: There we go. Shari, since  
15 you're going first, actually, I don't recall  
16 other witnesses doing that, but let's do it  
17 anyway, is NMFS-9, which is labeled -- or not 9,  
18 excuse me.

19 NMFS-7, your testimony, is that a true  
20 and correct copy of your testimony here today?

21 WITNESS WHITMORE: Yes, it is.

22 MR. KEIFER: With that, you can summarize  
23 for the Board.

24 WITNESS WHITMORE: Okay. Thank you.  
25 Thank you for having me here. My name is Shari

1 Whitmore and I have been an employee of NOAA  
2 Fisheries for over nine years. I am a current --  
3 I'm currently a Fish Biologist in the Klamath  
4 Branch, and have a Bachelor's of Science, Morgan  
5 State, in Fisheries Biology, as well as a  
6 Master's Degree from Humboldt University in  
7 Fishery Science.

8           For my Master's Degree, I studied Coho  
9 salmon in the Mid Klamath and evaluated different  
10 off-channel habitats for juvenile rearing. I had  
11 ten study sites, one of which was actually the  
12 Stanshaw Creek refugial pool that we've been  
13 discussing. I have continued to work in the  
14 field in the Klamath Basin as part of my regular  
15 job duties. And I continue to tag fish and study  
16 fish behavior in the basin, and I'm quite  
17 familiar with their movement and life history  
18 strategies.

19           So my testimony will focus on the Coho  
20 use and behavior of the Stanshaw Creek refugia  
21 habitat, but I wanted to start by describing some  
22 of the general life history strategies of fish in  
23 the basin, just to provide a context for the  
24 importance of the habitat.

25           So the Klamath Basin is unique because it

1 is often referred to as an upside down river  
2 system where fish, who are actually spawning in  
3 the upper tributaries, like the Scott and the  
4 Shasta River, the Upper Klamath, these  
5 tributaries are more impacted and water is  
6 diverted up there. And as the flows recede and  
7 the temperatures rise during the summertime,  
8 those locations where fish are spawned are not  
9 suitable for the juveniles to be rearing.

10           So we see, in the spring, a large spring  
11 redistribution period where the juvenile Coho  
12 salmon must move to new locations to seek cold-  
13 water refugia for their over-summer rearing  
14 period.

15           Because Coho salmon stay for a full year  
16 in fresh water, they also are exposed to  
17 environmental stressors in the winter, such as  
18 high velocity flows of the mainstem.

19           At this point we see another  
20 redistribution period in the fall where fish will  
21 often have to move again to seek a slow water,  
22 slow velocity refugia to avoid those high  
23 velocity flows in the mainstem.

24           And then we know that every time a fish  
25 is forced to move and seek a new habitat, that

1 risk of mortality increases. And it's unknown if  
2 they'll be able to find the refugia they are  
3 seeking, or if they will essentially perish due  
4 to the environmental stressors that they may run  
5 into, such as during the summer the high  
6 temperatures or disease that exist in the  
7 mainstem Klamath River, or if they are swept away  
8 by the high velocity flows when unable to find  
9 these refugia habitats.

10           So my thesis work focused on studying  
11 juvenile Coho salmon in the Mid Klamath. And  
12 during that time I tagged hundreds of juvenile  
13 Coho salmon and showed that large portions of the  
14 juvenile Coho salmon population move many times  
15 during their freshwater rearing period. For  
16 example, I've tagged fish that I have found  
17 located in at least four different habitats. And  
18 these are just places where I was able to detect  
19 them through antennas, locations that are many  
20 miles away from each other, up different  
21 tributaries and different off-channel ponds.  
22 This shows the juvenile Coho salmon have  
23 exploratory behavior and work to find the  
24 suitable habitat that they require.

25           So because these fish move so often and



1 that we see these lethal conditions in the  
2 mainstem Klamath, these fish rely on the  
3 refugias, like Stanshaw Creek. And Stanshaw  
4 Creek is exceptional because it provides both  
5 over winter and cold-water, summer refugia  
6 habitat.

7           During my thesis work, another movement  
8 pattern that I detected as a diurnal migration  
9 pattern. And since my thesis work, I have  
10 detected this in other locations. Essentially,  
11 anywhere that I look I have found that fish are  
12 moving, migrating on a diurnal time scale where  
13 they will leave a tributary.

14           For example, I discovered this on Tom  
15 Martin Creek with the help of the Karuk Tribe,  
16 and found that these fish, while using the cold-  
17 water tributaries, such as Tom Martin Creek,  
18 during the day as refugia, at night, right at  
19 dusk, they will migrate into the mainstem  
20 Klamath, when many people think that it is lethal  
21 and unsuitable for use of Coho salmon. However,  
22 they are able to access the food resources there  
23 and benefit from that additional food resource.  
24 And then they migrate back at dawn, into that  
25 cold-water refugia.

1           So a connection during the summer, when  
2 the Klamath River is often considered  
3 inhospitable, can still benefit a fish when it  
4 has this cold-water refugia.

5           So now I just want to talk about Stanshaw  
6 Creek, and that refugial pond specifically.

7           During my time there, marking and  
8 studying the fish there, I worked closely with  
9 the Karuk Tribe. Their fishery staff assisted me  
10 in data collection and, essentially, mentored me  
11 on the history of the -- of that habitat and the  
12 other study sites that I had, since they have the  
13 long-term relationship with these sites. So I  
14 understand that Stanshaw Creek has very limited  
15 and likely no successful spawning activity from  
16 Coho salmon, but these fish do use this habitat  
17 as a critical over-winter and summer refugia, as  
18 mentioned.

19           So in the year that I was capturing fish  
20 here, it was 2012, I started in the summer of  
21 2012, and it was a fairly good water year. And I  
22 noticed that the habitat was supporting healthy  
23 growth of the Coho salmon that were there in that  
24 habitat. I tracked these fish. I tagged them  
25 and watched their behavior, their movement

1 strategies through that summer, and noticed that  
2 a portion of the fish that were tagged during the  
3 summer overwintered and stayed in that habitat  
4 through the -- through the winter, capitalizing  
5 on that slow water, low-velocity refugia habitat.

6           So that portion of fish that remain there  
7 for the entire year had the highest growth rates  
8 of fish that I found in any other habitat in any  
9 other season. And I attribute this to the fact  
10 that these fish were not forced to move or seek  
11 another habitat or be exposed to any sort of  
12 risks or poor habitat quality in another  
13 location. Instead, they were able to stay in  
14 that habitat and benefit from the high-quality  
15 habitat there for an entire year.

16           Stanshaw Creek refugial pool is extremely  
17 unique and special because it is located in  
18 proximity to the mainstem Klamath, so it is on  
19 the floodplain and just adjacent to the mainstem  
20 Klamath during low flows, but in the winter,  
21 Stanshaw Creek pond is inundated by the mainstem  
22 Klamath River. And this is extremely valuable  
23 because it essentially provides a flushing and a  
24 refreshing of that habitat. It brings nutrients  
25 from the mainstem in and provides these food

1 resources to the fish that are rearing there  
2 through the winter. And that's when I was seeing  
3 the especially high growth rates, was during the  
4 winter period.

5           So just to further impress upon you the  
6 value of this habitat, during my time at NOAA  
7 Fisheries, I was one of the primary authors of  
8 the Coho Salmon Recovery Plan that our agency  
9 issued in 2014. And here we had -- we described  
10 the population of Coho salmon in the Mid Klamath  
11 Watershed as being limited in the juvenile life  
12 stage, so this is essentially where the  
13 bottleneck occurs to recovery of the species of  
14 that population. And the habitats that were  
15 limiting recovery there were described as off-  
16 channel complexity or off-channel ponds, such as  
17 Stanshaw Creek pond, that function as this winter  
18 refugia. And then we also called out water  
19 quality as a limiting factor. And here we are  
20 looking for the cold-water refugia for the  
21 summer.

22           So Stanshaw Creek refugial pond is  
23 extremely valuable to the recovery of Coho salmon  
24 in the Klamath Basin because it contributes both  
25 of these limiting habitats and supports a

1 limiting life stage of Coho salmon. And it's not  
2 just the Mid Klamath population that is  
3 benefitting from the use of this habitat. All  
4 populations upstream, such as the Shasta  
5 population, Scott River, Upper Klamath, all of  
6 these populations are forced to migrate through  
7 the mainstem Klamath and can benefit from this  
8 habitat if they are able to detect it and move  
9 into that habitat.

10           So the fish that are occupying that  
11 habitat and have an opportunity to go there,  
12 since I have shown that these fish have high  
13 rates of growth, I would argue that they are --  
14 they have a higher value to the populations that  
15 they come from. We know that smolt, the fish  
16 that are out migrating into the ocean, when they  
17 are a larger size they have a higher rate of  
18 survival in ocean conditions. And larger smolt  
19 produce larger adults. And larger adults are  
20 important to a population because they are more  
21 fecund and more successful at spawning and  
22 reproduction for the next generation.

23           So it's extremely important that this  
24 habitat have a strong cold-water connection  
25 during the summer to the mainstem Klamath. The

1 more cold water that is available and creating a  
2 plume into the mainstem Klamath River makes it  
3 easier for fish migrating past and seeking out  
4 this habitat to detect that cold water and then  
5 move into the habitat and benefit from its value.

6 Further, in the summer, a connection to  
7 this, to the mainstem, would still be valuable  
8 since I've shown that fish can move during the  
9 summertime into the mainstem and benefit from the  
10 resources there. So a connection would still be  
11 beneficial to the fish that are rearing there  
12 through the summer.

13 And then finally, it's important that  
14 there's a good connection through the fall so  
15 that fish can out-migrate if they choose to.

16 So in summary, I just want to -- I just  
17 want to close by saying that Stanshaw Creek does  
18 represent the most important habitat type that we  
19 are looking for in the Mid Klamath River, and  
20 that it supports a limiting life stage of Coho  
21 salmon for not just the Mid Klamath population,  
22 but for four different populations within the  
23 Klamath Basin, and that the fish there that are  
24 able to occupy that habitat, they are a higher --  
25 of a higher value than the fish that are not able

1 to grow and to obtain a larger size, as a fish  
2 that may not be able to reach a habitat like that  
3 are often -- you know, they may be smaller.

4 And that's all I have. Thank you.

5 MR. KEIFER: You ready, Margaret?

6 WITNESS TAUZER: Sure.

7 MARGARET TAUZER,  
8 called as a witness for National Marine Fishery  
9 Service, having been previously duly sworn, was  
10 examined and testified as follows:

11 DIRECT TESTIMONY BY

12 MR. KEIFER: Okay. Before we start, I  
13 guess I'll just roll this in, is the Exhibit  
14 marked NMFS-1 a true and correct copy of your  
15 testimony today?

16 WITNESS TAUZER: It is a true copy. I  
17 did leave the word draft in there by accident,  
18 but that is a final and true copy.

19 MR. KEIFER: So with the exception of  
20 this artifact word draft, this is your testimony  
21 today?

22 WITNESS TAUZER: Yes.

23 MR. KEIFER: Take it away, Margaret.

24 WITNESS TAUZER: My name is Margaret  
25 Tauzer. I'm a Hydrologist at the National Marine

1 Fishery Service. I've been with the National  
2 Marine Fishery Service for over 17 years. I have  
3 a Master's of Science Degree in Civil Engineering  
4 with an emphasis in water resources and river  
5 mechanics. I have a Bachelor's of Science Degree  
6 in Environmental Resources Engineering.

7 I mostly spend my time at NMFS, providing  
8 technical support to Staff for any projects that  
9 have hydraulic -- hydrologic or hydraulic issues.  
10 I work on gravel mining, fish passage projects,  
11 and water right protests and water policy issues.  
12 And before my -- before working at NMFS, I worked  
13 for about seven years at consulting engineering  
14 companies doing physical and mathematical river  
15 models.

16 So our NMFS Exhibit 3 is the letter that  
17 we sent to the Water Board on August 3rd, 2016,  
18 with our recommendation for a bypass flow to help  
19 preserve Coho salmon in their habitat as a public  
20 trust resource. The letter explains how we  
21 evaluated the hydrograph and the reasonableness  
22 of our recommendation.

23 And our recommendation consists of  
24 several parts, but it's primarily focused on  
25 preserving 90 percent of the natural flow in the



1 anadromous reach. The 90 percent recommendation  
2 was based on a study by Richter in 2011 where a  
3 90 percent bypass is recommended as a bypass flow  
4 that will preserve a high level of ecological  
5 function. And that's what we think is necessary  
6 in Stanshaw Creek because of its uniqueness as a  
7 cold-water refugia, as a method of producing a  
8 food supply to the cold-water refugia and  
9 downstream. We are interested in protecting the  
10 inter-year variability of the stream because of  
11 the water functions that are provided by it,  
12 providing the passage of food supply, just the  
13 formation of the geomorphic values that water  
14 forms the stream, and as the flow recedes in the  
15 spring, keeping the channel open to the Klamath  
16 is important.

17 Our recommendation also allows for a  
18 nonconsumptive diversion, as long as at least two  
19 CFS is bypassed at the point of diversion into  
20 the non anadromous reach and returned to Stanshaw  
21 Creek above the anadromous reach. The intent of  
22 this two CFS bypass was to -- minimum bypass was  
23 to keep the channel in the non anadromous reach  
24 at least wetted. And so I used -- let's see,  
25 that was -- that was for providing -- keeping the

1 channel wet, it would provide the food supply  
2 downstream, and also, you know, just keep the  
3 channel, in the lowest condition, wet.

4           The reason for -- I mean, the way that I  
5 had done that was using a hydraulic analysis I  
6 had put together back in 2001, taking some cross-  
7 section up in that area in a reach I considered  
8 representative of the non anadromous reach. And  
9 the low flow was just evaluated by finding a  
10 break point as I increased flows. So as you  
11 increase flows, the channel -- the width of the  
12 channel becomes more and more, until it starts to  
13 become deeper. And so the two CFS represented  
14 that break point which defined that minimum.

15           Our Exhibit 4 contains a spreadsheet that  
16 we used to evaluate what we were recommending.  
17 The spreadsheet contains nine tabs that show  
18 estimates, how we estimated Stanshaw Creek flows,  
19 since it's ungauged. There's also tabs there to  
20 evaluate the diversion, the return flow, just  
21 mostly for visualization and understanding the --  
22 all the return -- the diversions and flows in the  
23 stream.

24           The spreadsheet, because we used that --  
25 had gone through a few iterations, and this final

1 Exhibit 4 version includes a section for user  
2 input to -- that we used to talk about different  
3 ideas or questions.

4 I also included, in my declaration, a  
5 timeline of our correspondence with our  
6 recommendations and how they changed over time.  
7 Since our original bypass recommendation in 2001,  
8 there has been much research about the importance  
9 of cold-water tributary input and off-channel  
10 habitat for the Klamath River, for example, the  
11 Coho Recovery Plan that Shari was mentioning, and  
12 Shari's thesis work, and others, including the  
13 Richter Study in 2011. The Richter-type studies  
14 are showing more and more the importance of  
15 preserving this natural variability of the  
16 hydrograph.

17 And because our goal was to make a bypass  
18 flow recommendation protective of fish and their  
19 habitat as a public trust resource and because of  
20 the new information, we reevaluated the  
21 hydrologic conditions of Stanshaw Creek and our  
22 hydraulic analysis that we had original done.

23 Then our next one was the 2015 draft  
24 recommendations. They were based on 90 percent  
25 bypass recommendation, but included termination

1 dates for nonconsumptive diversion to protect the  
2 summer low flow, and a minimum bypass below which  
3 there would be no diversion.

4           And our final recommendation that was a  
5 letter in Exhibit 3, we removed the date limits  
6 for the hydroelectric operation and based it more  
7 on the hydrologic conditions, and removed the  
8 minimum threshold, allowing a consumptive  
9 diversion year-round based on input from Marble  
10 Mountain Ranch. We agreed to this change because  
11 the nonconsumptive return with -- if we -- when  
12 we had the nonconsumptive return, we can maintain  
13 the 90 percent bypass in the anadromous reach.

14           So our final recommendation allowed a  
15 year-round diversion, as long as 90 percent of  
16 the natural flow is bypassed in the anadromous  
17 reach, and two CFS is bypassed at the point of  
18 diversion during times of nonconsumptive  
19 diversion, as long as it's returned back into the  
20 anadromous reach. So this means that during  
21 times of consumptive diversion there would be 90  
22 percent bypass at the point of diversion,  
23 allowing for 10 percent diversion, even as the  
24 natural flows recede below two CFS. And when I'm  
25 saying natural flow, I'm -- we assumed the

1 natural flow would be the flow above the point of  
2 diversion, even though we knew there was another  
3 small diversion upstream, and there is also other  
4 effects that have happened to that watershed over  
5 time, like mining activities and road  
6 development.

7           So since the reported upstream diversion  
8 was only about two percent of the Marble Mountain  
9 Ranch diversion, we considered the stream above  
10 that, the point of diversion, as natural flow.

11           So our Exhibit 4 includes the estimated  
12 Stanshaw Creek flow, based on Ti Creek, scaled by  
13 watershed area. The values -- Ti Creek is the  
14 best watershed -- I mean, data available for that  
15 kind of analysis because it is adjacent, or just  
16 upstream of Stanshaw Creek and is in the same  
17 orientation and relatively the same size, same  
18 vegetative-type cover, same aspects. So it's the  
19 type of watershed to use. It just only had four  
20 years of data. So I spent a considerable time  
21 that I wrote about in the letter, explaining how  
22 we verified that Ti Creek was actually giving us  
23 some reasonable answers and that it represented a  
24 period. Even though it was only four years, the  
25 flow years that occurred in that time were

1 representative of a fairly wide range of water  
2 year types.

3 I also used the available stream flow  
4 measurements that I had taken. I had a few from  
5 the Karuk and the Orleans Ranger District to  
6 show -- to just help verify that, that the Ti  
7 Creek data was producing good estimates of  
8 Stanshaw Creek, since they were -- our minimum  
9 flows on a dry year were approximately the same  
10 as what we were measuring.

11 I also compared the flow years of the  
12 last 15 years to the historic record to show that  
13 the flow measurements that were taken during  
14 these last 15 years were all taken during a time  
15 that spanned all types of water years.

16 So we believe that this recommendation  
17 that we're making is with -- the nonconsumptive  
18 diversion return to Stanshaw Creek would provide  
19 the requested diversion, essentially, in all but  
20 the extreme dry years. Even then, the shortage  
21 would be of short duration and substantial  
22 portion of the consumptive use could still be  
23 diverted.

24 We think that storage, both water and  
25 batteries, should be utilized whenever possible

1 to try and maintain a lower steady rate of  
2 diversion from the stream to meet the higher  
3 daytime demands and to avoid intermittent on and  
4 off to the stream, on and off of the diversion to  
5 the stream.

6 And that's all I have.

7 MR. KEIFER: I believe we're ready for  
8 cross.

9 HEARING OFFICER MOORE: Thank you, Ms.  
10 Tauzer and Ms. Whitmore, and Mr. Keifer.

11 So with that, let me get back on my  
12 script.

13 So for cross-examination, first,  
14 Diversion of Water Rights Prosecution Team, do  
15 you have any questions for the witnesses?

16 This is a matter of an accurate record.  
17 To the extent you can address to specific members  
18 of the panel, it would be appreciated, but not  
19 required.

20 CROSS-EXAMINATION BY

21 MR. PETRUZZELLI: To the extent I can  
22 understand, like who is the best person to pose a  
23 question to, I will -- I will do so.

24 Ms. Whitmore, this is probably a better  
25 question for you, but if it's not, Ms. Tauzer, go

1 ahead and answer.

2 Are Coho listed under the ESA? And if  
3 they are, can you, you know, explain what that  
4 listing status is?

5 WITNESS WHITMORE: Yes. They're listed  
6 under the ESA as threatened.

7 MR. PETRUZZELLI: Okay. And what does  
8 that mean?

9 WITNESS WHITMORE: It means that there's  
10 a reasonable likelihood that they may go extinct.

11 MR. PETRUZZELLI: Okay. And are  
12 steelhead listed?

13 WITNESS WHITMORE: No.

14 MR. PETRUZZELLI: Okay. And, Ms.  
15 Whitmore, this is another question for you.

16 I noticed a reference to one of your  
17 papers in Mr. Cramer's written testimony. Does  
18 he reference a publication authored by you in his  
19 testimony?

20 WITNESS WHITMORE: Yes. I read that.

21 MR. PETRUZZELLI: And do you believe he  
22 accurately characterizes your publication?

23 WITNESS WHITMORE: Not always. I would  
24 want to think about which statements it was --

25 MR. PETRUZZELLI: Okay.



1 WITNESS WHITMORE: -- that you're --

2 MR. PETRUZZELLI: And, unfortunately, I  
3 don't have that immediately available.

4 Have you been to Stanshaw Creek?

5 WITNESS WHITMORE: Yes, many times.

6 MR. PETRUZZELLI: Do you have an idea,  
7 how many times?

8 WITNESS WHITMORE: No. During my study,  
9 my sampling framework was such that, from -- I  
10 think it was starting in May through the end of  
11 September, I visited at a minimum of every --  
12 once every two weeks, and then a number of times  
13 through the fall and into the winter.

14 MR. PETRUZZELLI: Okay. And so what  
15 times of years were you there?

16 WITNESS WHITMORE: I think May was  
17 probably my first visit. And I was there  
18 frequently throughout the entire summer, and into  
19 the fall a little less frequently, and into the  
20 winter.

21 MR. PETRUZZELLI: Okay. So you've been  
22 there a lot?

23 WITNESS WHITMORE: Yeah. Yeah. Yeah.

24 MR. PETRUZZELLI: And have you -- did you  
25 swim around in the pool?

1           WITNESS WHITMORE:  Yes.  I have snorkeled  
2  it numerous times and captured fish there, tagged  
3  fish there, observed that habitat, taken habitat  
4  surveys.  I'm very familiar with it.

5           MR. PETRUZZELLI:  Okay.  So you've been  
6  there enough that you feel you could have a  
7  generalized picture of, you know, how it  
8  functions year-round?

9           WITNESS WHITMORE:  Yes.

10          MR. PETRUZZELLI:  Okay.  Do you think one  
11  site visit is sufficient --

12          WITNESS WHITMORE:  No.

13          MR. PETRUZZELLI:  -- for (indiscernible)?

14          WITNESS WHITMORE:  In fact, the reason  
15  that I was there for an entire year is to see  
16  the -- how the site functions and differs  
17  throughout an entire year, which it is  
18  dramatically different season to season and is --  
19  I think somebody else pointed out, whatever you  
20  see there at one moment is just a snapshot of,  
21  for example, the fish that are utilizing that  
22  habitat, whereas like somebody described it as  
23  like a rest stop where fish --

24          MR. PETRUZZELLI:  Uh-huh.

25          WITNESS WHITMORE:  -- there's a high

1 turnover, and fish move in and out. And it could  
2 be thousands of fish in a year that utilize and  
3 benefit from that habitat.

4 MR. PETRUZZELLI: So a single visit just  
5 in October is probably not sufficient?

6 WITNESS WHITMORE: No.

7 MR. PETRUZZELLI: Okay. And that's all  
8 the questions I have for now.

9 HEARING OFFICER MOORE: Okay. Thank you.

10 Next, Marble Mountain Ranch, any cross-  
11 examination?

12 CROSS-EXAMINATION BY

13 MS. BRENNER: Thank you. I'm going to  
14 address specific questions to each of you, make  
15 it easier.

16 So I'm going to start with Ms. Whitmore.  
17 You indicated you observed juvenile salmon  
18 rearing in Stanshaw during the summer of 2012  
19 through spring 2013; correct?

20 WITNESS WHITMORE: That's correct.

21 MS. BRENNER: And you indicated that  
22 those fish were present in a relatively robust  
23 and healthy condition; correct?

24 WITNESS WHITMORE: Yes, that's correct.

25 MS. BRENNER: So the -- in your estimate,

1 was the pool functioning effectively as a cold-  
2 water refuge for juvenile salmon and steelhead at  
3 that time?

4 WITNESS WHITMORE: Yes.

5 MS. BRENNER: During the summer, during  
6 September 20th, 2012, NMFS measured the flow on  
7 Stanshaw Creek above the Cole's point of  
8 diversion at 2.5 CFS; do you recall that?

9 WITNESS WHITMORE: I wasn't part of that  
10 measurement. That would probably be best directed  
11 to Margaret.

12 MS. BRENNER: Do you recall that,  
13 Margaret?

14 WITNESS TAUZER: Yes.

15 MS. BRENNER: Okay. On October 4th,  
16 2012, Forest Service measured the flow on  
17 Stanshaw Creek above the Cole's point of  
18 diversion at two CFS; is that correct?

19 WITNESS TAUZER: Yes.

20 MS. BRENNER: And, Ms. Whitmore, are you  
21 aware that during that same period, the Coles  
22 were diverting water?

23 WITNESS WHITMORE: I was not aware of the  
24 extent of the Cole's diversion.

25 MS. BRENNER: And you indicated, 2012 was

1 a robust water year; was that what you indicated?

2 WITNESS WHITMORE: Yeah, it was a fairly  
3 good water year.

4 MS. BRENNER: It wasn't a drought year?

5 WITNESS WHITMORE: No.

6 MS. BRENNER: You indicated in your -- in  
7 Exhibit 9, your thesis, that Stanshaw Creek pond  
8 was beaver-influenced?

9 WITNESS WHITMORE: Yes.

10 MS. BRENNER: Could you just tell me what  
11 you meant by that?

12 WITNESS WHITMORE: There's evidence of  
13 beaver activity, chewed sticks. They were  
14 clearly using the pond. And beavers often find  
15 these slow-water habitats to store food resources  
16 through the winter. So there was definitely  
17 evidence of their activity, and chewed beaver  
18 sticks.

19 MS. BRENNER: Is that a good thing for  
20 the fishery resources?

21

22 WITNESS WHITMORE: Yes, absolutely.

23 MS. BRENNER: Do you know whether that's  
24 been sustained in recent years, the beaver  
25 influence?

1 WITNESS WHITMORE: I'm not sure.

2 MS. BRENNER: You indicate it's a dynamic  
3 system, things change year to year?

4 WITNESS WHITMORE: Yes, and that's  
5 actually what makes it so valuable.

6 MS. BRENNER: Okay. You indicated that  
7 you observed juveniles leaving the cold-water  
8 refuge and entering back into the mainstem of the  
9 Klamath; correct?

10 WITNESS WHITMORE: Are you speaking to  
11 the diurnal migration pattern?

12 MS. BRENNER: Yes.

13 WITNESS WHITMORE: Yes.

14 MS. BRENNER: And what refuges did you  
15 commonly observe these types of behaviors, when  
16 you're -- in this 2012, '13?

17 WITNESS WHITMORE: In the 2012 year, I  
18 noticed that at Tom Martin Creek, which is  
19 downstream of the Scott River. And I also  
20 detected it at Lower Seiad Pond, also named  
21 CalTrans Pond in my thesis, them moving in and  
22 out of Caltrans Pond into Lower Seiad Creek, and  
23 back and forth, that diurnal pattern.

24 MS. BRENNER: Was that occurring at  
25 Stanshaw Creek, as well?

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WITNESS WHITMORE: I didn't look for that there.

MS. BRENNER: Okay. And do -- can you describe to me what features of those refuges made that behavior possible?

WITNESS WHITMORE: It was possible by having access, so like an open confluence.

MS. BRENNER: So flow depth is one thing?

WITNESS WHITMORE: Yes.

MS. BRENNER: How about the gradient of the flow? Is a low-gradient flow --

WITNESS WHITMORE: Yes.

MS. BRENNER: -- better than a --

WITNESS WHITMORE: Yes.

MS. BRENNER: -- fast velocity?

WITNESS WHITMORE: I would imagine, yes.

MS. BRENNER: Is it you imagine, or is that your professional opinion?

WITNESS WHITMORE: Low gradient would be preferable, yes.

MS. BRENNER: Okay. And cover for temperature purposes, and just generally cover is a good thing?

WITNESS WHITMORE: In general it is. But

1 as far as making it possible to access another  
2 water body, not necessarily required and often  
3 isn't.

4 MS. BRENNER: Okay.

5 WITNESS WHITMORE: Yeah.

6 MS. BRENNER: Can we pull up Marble  
7 Mountain Exhibit 21, pages 14 through 16 please?

8 (Document displayed on screen)

9 MS. BRENNER: Okay. Scroll down with  
10 that picture a little bit. There we go. No,  
11 just the picture. I just need the photo. Thank  
12 you for that.

13 Do you recognize that area at all?

14 WITNESS WHITMORE: Yes.

15 MS. BRENNER: What is that?

16 WITNESS WHITMORE: I believe that is the  
17 confluence of the -- or the outflow of Stanshaw  
18 Creek pond moving towards the Klamath River.

19 MS. BRENNER: Does that appear the same  
20 as when you sampled the creek in 2012 and '13?

21 WITNESS WHITMORE: You know, it's  
22 similar, but that was quite a few years ago, and  
23 the access changes frequently. Sometimes there's  
24 outflow of the pond on a different edge of the  
25 pond into the mainstem Klamath. Other times



1 there's more of a direct stream channel. Other  
2 times it's more of a braided channel. It differs  
3 year to year.

4 MS. BRENNER: Can we go to the next page?  
5 Actually, the -- keep going.

6 Say that again, Kerry? Is that the only  
7 photo?

8 MS. FULLER: No. That was page 16, so we  
9 need to go 15 to 14.

10 MS. BRENNER: Fourteen? Up. Go to page  
11 14 please.

12 Do you recognize that photo?

13 WITNESS WHITMORE: I am assuming the pond  
14 is behind the man. And the channel there is the  
15 outflow of the pond.

16 MS. BRENNER: Is that the outflow or  
17 inflow?

18 WITNESS WHITMORE: Yeah. I'm not sure  
19 which direction we're looking, or if that's  
20 the -- that's Stanshaw Creek going into the pond.

21 MS. BRENNER: So this is a downstream  
22 view of the pond outflow.

23 So let me -- let me just ask you this  
24 question, when you were at the Stanshaw Creek and  
25 doing your thesis in 2012 and '13, did you see

1 rock-pile berms, hand -- you know, human-placed  
2 rock berms in the system?

3 WITNESS WHITMORE: I'm not sure.

4 MS. BRENNER: Did you see anything as  
5 uniformed a set of rocks as you see here in this  
6 photo along the side of the creek?

7 WITNESS WHITMORE: I can't remember. I'm  
8 sorry.

9 MS. BRENNER: Can you go to the next --  
10 what's this, page 14? Can you go to -- or is  
11 that page 15? Can you go to 14, or if that's 14,  
12 go to 15?

13 Do you see this set of hand-placed rock  
14 berms?

15 WITNESS WHITMORE: Yes.

16 MS. BRENNER: Was that in place when you  
17 were there?

18 WITNESS WHITMORE: So I have seen this in  
19 other tributaries. I cannot remember if I saw it  
20 in Stanshaw Creek that year that I was there.

21 MS. BRENNER: Okay. Would the placement  
22 of rock berms preventing the out migration of  
23 Stanshaw Creek pond into the Klamath be a good  
24 thing?

25 MR. KEIFER: That question is a little

1 vague. There are multiple --

2 MS. BRENNER: I can --

3 MR. KEIFER: -- species. If you could be  
4 a little more specific, that would --

5 MS. BRENNER: No problem. No problem.

6 So you indicated earlier that it's a  
7 positive factor to allow fishery species, Coho  
8 salmon, other salmonids, to go from a cold-refuge  
9 pool into the Klamath. And you observed that  
10 occurring --

11 WITNESS WHITMORE: Uh-huh.

12 MS. BRENNER: -- in, you know, dawn-dusk  
13 time period, in and out?

14 WITNESS WHITMORE: Right. Yeah. So I  
15 know what you're -- what you're asking.

16 There's competing needs for the fish.  
17 So, yes, while there's value for a fish to be  
18 able to access the mainstem Klamath and take  
19 advantage of that resource, it's more valuable  
20 that the fish have the cold-water refugia in the  
21 first place. I'm not sure what the purpose of  
22 the berms are, but if they were something to  
23 increase the elevation of the pond to maintain a  
24 cold-water refugia for those fish, that's  
25 essentially like life support and it would be the

1 most valuable need of those fish. The ability  
2 for them to migrate into the mainstem Klamath and  
3 take advantage of those food resources would be a  
4 secondary benefit.

5 MS. BRENNER: Okay. So they don't  
6 necessarily need the connectivity during the warm  
7 summer months?

8 WITNESS WHITMORE: No. But it may  
9 contribute to higher growth rates and a higher  
10 survival rate of the individuals who have that  
11 opportunity.

12 MS. BRENNER: Okay. But at the time that  
13 you were at Stanshaw, was there connectivity?  
14 You don't recall?

15 WITNESS WHITMORE: I don't recall.

16 MS. BRENNER: But they were robust at  
17 that time?

18 WITNESS WHITMORE: Yes. And there was at  
19 least seasonal connectivity at the -- at the very  
20 minimum.

21 MS. BRENNER: Seasonal connectivity? In  
22 other words, there's connectivity in the fall and  
23 winter?

24 WITNESS WHITMORE: And spring.

25 MS. BRENNER: And spring?

1 WITNESS WHITMORE: Yes.

2 MS. BRENNER: Okay. When there's higher  
3 flows, both in the Klamath and the Stanshaw?

4 WITNESS WHITMORE: Yes.

5 MS. BRENNER: Okay. I have nothing  
6 further. Thank you.

7 WITNESS WHITMORE: Thank you.

8 MS. BRENNER: Ms. Tauzer, is your  
9 recommendation based on establishing unimpaired  
10 flow? Is that -- is that the basic premise of  
11 your bypass recommendation for the Stanshaw Creek  
12 system or the point of diversion?

13 WITNESS TAUZER: Our -- I mean, the basis  
14 is trying to keep as close as we can to the  
15 natural summer flow and the natural variability  
16 of water year types.

17 MS. BRENNER: Okay. Based on  
18 hydrographs?

19 WITNESS TAUZER: Well, yeah, the stream  
20 flow, the hydrographs.

21 MS. BRENNER: Was the practicality of  
22 returning the flow to Stanshaw Creek considered  
23 as part of your recommendation?

24 WITNESS TAUZER: Originally, 2001, that  
25 was just -- the recommendation was put it back.

1 We had -- I mean, so over time, we talked about  
2 it since then. In 2004, I think we were still  
3 working toward that. I mean, I think I haven't  
4 become really aware of the complaint of that  
5 until pretty recently.

6 MS. BRENNER: Okay. Are you aware of the  
7 cost associated with returning flow back to  
8 Stanshaw Creek?

9 WITNESS TAUZER: I've heard it in this  
10 hearing.

11 MS. BRENNER: But you never considered --  
12 you didn't consider that when you were making  
13 your recommended bypass flow?

14 WITNESS TAUZER: No. Our job is to try  
15 to find out what we would recommend to help  
16 preserve the species that are of our concern.

17 MS. BRENNER: Is your recommendation  
18 based on providing the highest level protection  
19 of fishery resources in the Klamath?

20 WITNESS TAUZER: As best as we thought  
21 was practical here.

22 MS. BRENNER: Have you done any analysis  
23 to specifically evaluate whether that bypass  
24 flow, the return back into Stanshaw, will  
25 accomplish more good for fish in Stanshaw than it

1 will in Irving Creek?

2 WITNESS TAUZER: I referred to biologists  
3 to see if they thought any further increase in  
4 the flow of Irving Creek would do anything for  
5 the habitat there. And everyone pretty strongly  
6 agreed that flow needed to come back to Stanshaw,  
7 since it provides a very important cold-water  
8 refugia.

9 MS. BRENNER: So even in high-water  
10 flows, the return to Stanshaw provides what  
11 benefit?

12 WITNESS TAUZER: You mean in winter  
13 flows? You're talking about --

14 MS. BRENNER: I'm not --

15 WITNESS TAUZER: I mean, you're talking  
16 about --

17 MS. BRENNER: -- going to put a date.  
18 I'm not going to put a time period. I'm just  
19 saying in --

20 WITNESS TAUZER: You're talking high  
21 flows --

22 MS. BRENNER: -- high water flows.

23 WITNESS TAUZER: -- on Stanshaw Creek?

24 MS. BRENNER: Right.

25 WITNESS TAUZER: Okay.

1 MS. BRENNER: High-water flows situation  
2 in Stanshaw, what's the benefit of returning the  
3 nonconsumptive hydro flow diverted by Marble  
4 Mountain Ranch back to Stanshaw? Did you  
5 evaluate the benefits of that?

6 WITNESS TAUZER: We didn't completely  
7 evaluate the really high flows because we already  
8 were knowing we were wanting the bypass flow to  
9 be returned in the spring. So if that whole  
10 system is set up to bypass back in the spring,  
11 then we know there's value because there's always  
12 going to be value to stay as close as you can to  
13 the natural hydrograph, but I didn't evaluate as  
14 closely as we thought about the whole recession  
15 curve and all the value of those spring recession  
16 back into Stanshaw Creek. And so by then,  
17 knowing that that was going to be part of the  
18 project, to have the waters returned, then we  
19 would prefer that the winter diversions were also  
20 returned.

21 MS. BRENNER: So you didn't consider  
22 the -- well, strike that.

23 You indicated that the two CFS minimum  
24 bypass will maintain the wetted flow -- low-flow  
25 channel needed to maintain micro invertebrate



1 production and food transport throughout the non  
2 anadromous reach below the point of diversion;  
3 correct?

4 WITNESS TAUZER: Yes.

5 MS. BRENNER: Do you have specific  
6 evidence that growth is impaired in the Stanshaw  
7 pond?

8 WITNESS TAUZER: You mean from --

9 MS. BRENNER: The micro --

10 WITNESS TAUZER: -- how does that fit in?

11 MS. BRENNER: -- invertebrates production  
12 is impaired in any way?

13 WITNESS TAUZER: Well, if you -- you  
14 know, we're looking for function. So, I mean,  
15 that may be a better question for Shari. But do  
16 I personally have data to show you that a few  
17 more macroinvertebrates would grow a fish? I  
18 mean, the assumption is that, you know, just  
19 providing that minimum level of transport of  
20 macroinvertebrates is, you know, you have to find  
21 some bottom target. We don't want to go to zero  
22 in that reach.

23 MS. BRENNER: Okay. Have you been to the  
24 Marble Mountain point of diversion?

25 WITNESS TAUZER: Yes.

1 MS. BRENNER: Okay. Have you inspected  
2 the diversion channel itself, the diversion  
3 ditch?

4 WITNESS TAUZER: I went and walked down  
5 that with the group in 2001, approximately.

6 MS. BRENNER: Part of the stakeholder  
7 efforts?

8 WITNESS TAUZER: Well, it was part of  
9 that appropriative -- the protest.

10 MS. BRENNER: Oh. Okay. And you're  
11 aware then that there's discharge points along  
12 the diversion ditch to deliver flow back to the  
13 Stanshaw Creek?

14 WITNESS TAUZER: Yes, I'm aware of it.

15 MS. BRENNER: Are you aware that there's  
16 also other influences below the point of  
17 diversion, adding water to the Stanshaw Creek?

18 WITNESS TAUZER: I mean, I would -- I am  
19 sure I saw them when I was out there surveying  
20 our cross-sections, but I would assume that would  
21 be true. You mean natural --

22 MS. BRENNER: Uh-huh.

23 WITNESS TAUZER: -- inflow? Yeah.

24 MS. BRENNER: Yeah. You've got inflow to  
25 Stanshaw Creek below the point of diversion

1 contributing to the flow in the creek?

2 WITNESS TAUZER: At certain times of  
3 years, yeah.

4 MS. BRENNER: Yeah. Have you made any  
5 inspections of sediment inputs to Stanshaw Creek  
6 over the course of the stream?

7 WITNESS TAUZER: No.

8 MS. BRENNER: But you state in paragraph  
9 nine of your testimony that, "The method of  
10 diversion causes large alterations in sediment  
11 input to the stream;" is that correct?

12 WITNESS TAUZER: I was referring just to  
13 the dam, you know, the big -- you know, the  
14 digging in the stream, pushing up a dam, and then  
15 that washing out.

16 MS. BRENNER: Was that --

17 WITNESS TAUZER: But --

18 MS. BRENNER: What time period was that?

19 WITNESS TAUZER: I -- you mean, when I  
20 was there?

21 MS. BRENNER: When you're talking about  
22 this big push up in the stream, what time period  
23 is that?

24 WITNESS TAUZER: It was each time I  
25 visited there, which I've been to that point of

1 diversion probably four times. But we also had  
2 Tim Broadman, our enforcement person, who would  
3 go up there often. And he came in and complained  
4 about that dam being pushed up a lot of times.

5 MS. BRENNER: What --

6 WITNESS TAUZER: And so --

7 MS. BRENNER: Can you give me a time  
8 period?

9 WITNESS TAUZER: It would be during the  
10 summers of each year.

11 MS. BRENNER: I'm sorry. 2001?

12 WITNESS TAUZER: I think every year.

13 MS. BRENNER: When's the last visit?

14 WITNESS TAUZER: Every -- every -- I  
15 mean, the times I visited there, it was there. I  
16 mean, isn't that your method of diverting -- to  
17 divert the flow?

18 MS. BRENNER: No.

19 WITNESS TAUZER: I mean, is --

20 MS. BRENNER: I think you saw some  
21 pictures of hand-stacked rocks.

22 WITNESS TAUZER: No. I'm talking about  
23 the diversion into the ditch.

24 MS. BRENNER: Right. Do you have -- do  
25 you have any picture of what you're talking

1 about?

2 WITNESS TAUZER: Not with me.

3 MS. BRENNER: Okay.

4 WITNESS TAUZER: But, I mean, it --

5 MS. BRENNER: So how -- how large of a  
6 dam are you referring to?

7 WITNESS TAUZER: Just enough to be the  
8 surface of the water, to divert a large amount  
9 down the ditch.

10 MS. BRENNER: So --

11 WITNESS TAUZER: Yeah, I'm pretty sure  
12 that's what Doug was explaining when he said  
13 he --

14 MS. BRENNER: The hand rock piling?

15 WITNESS TAUZER: Yeah, which is -- it's a  
16 pretty big alteration to a channel, compared to  
17 what we normally look at, so --

18 MS. BRENNER: Okay.

19 WITNESS TAUZER: I mean, in this type a  
20 size of a diversion, that's all.

21 MS. BRENNER: Okay.

22 WITNESS TAUZER: I'm not sure if that  
23 question even --

24 MS. BRENNER: I think you both agree that  
25 the Klamath River can reach lethal water

1 temperature for fisheries?

2 WITNESS WHITMORE: If the fish are  
3 exposed for a long enough period, yes.

4 MS. BRENNER: Okay. It gets hot in the  
5 Klamath, too hot --

6 WITNESS WHITMORE: It does.

7 MS. BRENNER: -- for fish?

8 WITNESS WHITMORE: Yes.

9 MS. BRENNER: Okay. So it's not all the  
10 time a connectivity from a refuge pool to the  
11 Klamath is utilized?

12 WITNESS WHITMORE: I mean, in 2012, that  
13 summer the Klamath River, I believe I have a  
14 graph in my thesis, was reaching up to 25, 26  
15 degrees which is considered, in the literature,  
16 lethal. However, fish were utilizing it during  
17 that time, as long as they could access a cold-  
18 water refugia during the daytime.

19 MS. BRENNER: And that's centigrade?

20 WITNESS WHITMORE: Yes.

21 MS. BRENNER: Thanks.

22 WITNESS WHITMORE: Uh-huh.

23 MS. BRENNER: Nothing further.

24 HEARING OFFICER MOORE: Okay. I guess  
25 Fahrenheit and centigrade, it gets you every

1 time.

2 So next we would like to ask the Karuk  
3 Tribe if you have any questions for the  
4 witnesses?

5 MR. VOEGELI: CDFW.

6 HEARING OFFICER MOORE: Oh, sorry. I  
7 forgot about CDFW. I'm on the wrong part of the  
8 script here. I'm on your part of the script.

9 MR. VOEGELI: I know we're trying to  
10 speed things up, but --

11 HEARING OFFICER MOORE: Yeah. No. No.  
12 I'm sure you have some good questions for the  
13 panel.

14 CROSS-EXAMINATION BY

15 MR. VOEGELI: Good afternoon.

16 WITNESS WHITMORE: Hi.

17 MR. VOEGELI: So my first few questions,  
18 I believe, are probably best directed to Shari.  
19 But as I go through them, if somebody -- if  
20 Margaret would be more appropriate, please let me  
21 know.

22 So the first question, Shari, on page  
23 three of your testimony, and this is NMFS Exhibit  
24 7, you describe how juvenile Coho will migrate  
25 and redistribute from spawning areas?

1 WITNESS WHITMORE: Yes.

2 MR. VOEGELI: Assuming that Coho don't  
3 spawn in Stanshaw Creek, would the creek still be  
4 important in the lifecycle of Coho?

5 WITNESS WHITMORE: Yes.

6 MR. VOEGELI: In what ways would you  
7 expect juvenile Coho to benefit from the Stanshaw  
8 Creek flows?

9 WITNESS WHITMORE: It's the cold water  
10 that's maintaining the cold-water pool, the  
11 refugia that I described, is so critical for the  
12 summer rearing. And it provides the food  
13 resources to the fish there that are sometimes  
14 isolated in the pool.

15 MR. VOEGELI: So would you expect the  
16 absence of a thermal refugial at Stanshaw Creek  
17 to be detrimental to the Coho rearing?

18 WITNESS WHITMORE: Absolutely. Fish who  
19 are seeking out a thermal refugia, and if they  
20 were not able to find it, they may perish in the  
21 mainstem Klamath when exposed to high  
22 temperatures for long periods of time, or exposed  
23 to disease. And we know that this is a limiting  
24 habitat and a bottleneck to recovery of some Coho  
25 salmon in the Klamath Basin. So the habitat's



1 critical for the recovery and survival of the  
2 fish.

3 MR. VOEGELI: Have there been disease  
4 issues in the Mid Klamath River --

5 WITNESS WHITMORE: Yes, every year.

6 MR. VOEGELI: -- in the most recent  
7 years?

8 WITNESS WHITMORE: Yes.

9 MR. VOEGELI: In your testimony, on page  
10 one, you state that "juvenile Coho salmon will  
11 seek out thermal refugia in the Klamath River  
12 mainstem and tributaries?"

13 WITNESS WHITMORE: Yes.

14 MR. VOEGELI: Can you explain what you  
15 mean by refugia in the mainstem, as opposed to  
16 refugia in the tributary?

17 WITNESS WHITMORE: Yeah. The cold water  
18 exiting a tributary will create a plume of cold  
19 water in the mainstem. And these areas are  
20 valuable to fish who want to take advantage of  
21 both the cold water and the extensive food  
22 resources in the very productive Klamath River.  
23 So those cold-water plumes act as a refugia  
24 themselves.

25 MR. VOEGELI: Are those refugia important

1 for fish, other than Coho?

2 WITNESS WHITMORE: Yes, all salmonids.

3 MR. VOEGELI: Can you describe how Coho  
4 and other salmonids, like Chinook and steelhead,  
5 may make use of these mainstem refugia?

6 WITNESS WHITMORE: Yeah. They may --  
7 they may hold just in the mainstem, as long as  
8 the water temperatures at that specific location,  
9 at the confluence there, maintains a cold  
10 temperature. They could be, you know, perfectly  
11 situated to be cool enough, but also take  
12 advantage of the food resources of the productive  
13 Klamath River.

14 MR. VOEGELI: Are the -- is the  
15 importance of these mainstem refugia only at the  
16 juvenile stage of the salmonids?

17 WITNESS WHITMORE: No. As fall Chinook  
18 are migrating upstream, often times it's during  
19 the fall when -- and late summer when mainstem  
20 temperatures are still at high levels. And so  
21 they will stopover and hang out in those cold-  
22 water mainstem refugias, as well.

23 MR. VOEGELI: Thank you. And this is a  
24 little more specific to Stanshaw Creek now.

25 When Stanshaw Creek has flows going into

1 the Klamath River, would you expect to see such  
2 thermal refugia in the mainstem?

3 WITNESS WHITMORE: If the volume of cold  
4 water is large enough that it can create a plume  
5 and not be easily diluted by the mainstem flows.

6 MR. VOEGELI: And then on page four of  
7 your testimony, you discuss the diurnal movement  
8 of Coho, and you talked a little bit about that.  
9 But --

10 WITNESS WHITMORE: Uh-huh.

11 MR. VOEGELI: -- could you just give me a  
12 brief summary again of that behavior?

13 WITNESS WHITMORE: Yeah. So at a point  
14 where fish find their summer refugia habitat, a  
15 cold-water habitat, they will remain there during  
16 the day. But at night, we see a lot more  
17 movement of fish and exploratory behavior and  
18 feeding behavior. And so at night, they may exit  
19 that cold-water refugia and enter the mainstem  
20 Klamath, which many times we think about as being  
21 lethal and inhospitable, but it's not. And fish  
22 can take advantage of the food resources in the  
23 mainstem Klamath which are different than those  
24 in Stanshaw Creek.

25 So it is valuable to a fish to be able to

1 take advantage of those food resources during the  
2 night, and then be able to retreat at dawn into  
3 the cold-water refugia so that they can, you  
4 know, survive throughout the summer.

5 MR. VOEGELI: And then do Klamath River  
6 juvenile Coho exhibit this behavior particularly  
7 in the summer months? Is this unique to the  
8 summer months?

9 WITNESS WHITMORE: It's not unique to the  
10 summer months. I found this occurring in the  
11 Scott River, Sugar Creek in the winter months, as  
12 well. It's basically just an indication that  
13 fish are taking advantage of different feeding  
14 opportunities, different food resources at night.  
15 And they have another preferred location for  
16 rearing and metabolizing that food, you know,  
17 during the day.

18 MR. VOEGELI: If there was a flow  
19 connection between the pool, Stanshaw Creek pool  
20 and the mainstem, would you expect juvenile Coho  
21 to make use of Stanshaw Creek for such diurnal  
22 movement?

23 WITNESS WHITMORE: Make use of the  
24 mainstem Klamath?

25 MR. VOEGELI: Traversing between the

1 mainstem Klamath and Stanshaw Creek, if it's  
2 connected?

3 WITNESS WHITMORE: Yes. If there was a  
4 sufficient connection, the characteristics of  
5 that connection was such that they could move  
6 back and forth freely, yes, I think that they  
7 would do that.

8 MR. VOEGELI: Okay. And when you were  
9 testifying earlier you stated that the movement  
10 of fish increases the risk of mortality.

11 WITNESS WHITMORE: Uh-huh.

12 MR. VOEGELI: And that the Mid Klamath  
13 Coho population is limited during the juvenile  
14 life stage.

15 WITNESS WHITMORE: Uh-huh.

16 MR. VOEGELI: In your opinion, if the  
17 Stanshaw Creek pool was lost, would you expect  
18 other tributaries to simply absorb these juvenile  
19 Coho fish?

20 WITNESS WHITMORE: Well, because it's a  
21 limited habitat, fish have a hard time finding  
22 those habitats, so not necessarily. They may not  
23 find another refuge.

24 MR. VOEGELI: You also mentioned in your  
25 earlier testimony today that juvenile Coho on

1 Stanshaw are of a higher value than Coho in other  
2 tributaries, primarily better equipped to  
3 survive?

4 WITNESS WHITMORE: Yes.

5 MR. VOEGELI: Would you expect Coho in  
6 the absence of Stanshaw Creek cold-water refugia,  
7 that they would migrate to another tributary and  
8 be of similar high value?

9 WITNESS WHITMORE: It depends on the  
10 tributary, but it's unlikely. I think my thesis  
11 work showed that other -- there's a high  
12 difference in growth rates, depending on the  
13 habitat that the fish are occupying. So even  
14 though they're surviving in a place like Tom  
15 Martin Creek or Cade Creek, they may not be  
16 growing. In fact, I've seen that a lot of these  
17 fish have negative growth rates because they're  
18 just barely hanging on and staying alive. But  
19 there are not sufficient food resources there for  
20 them to grow to such a robust size as they might  
21 in a place like Stanshaw Creek.

22 MR. VOEGELI: So would you expect that  
23 juvenile Coho and Coho recovery generally may be  
24 harmed by the loss of connection to the Stanshaw  
25 Creek pool between the pool and the mainstem

1 Klamath?

2 WITNESS WHITMORE: Yes.

3 MR. VOEGELI: One of the things we heard  
4 Ms. Tauzer testify about earlier, and this may be  
5 better directed to her, but let me know, she  
6 testified that studies, like the Richter Study,  
7 have indicated the need to maintain the natural  
8 hydrograph.

9 Would one of you be able to describe the  
10 importance in mimicking the natural hydrograph  
11 for Stanshaw Creek, particularly in the winter  
12 months?

13 WITNESS WHITMORE: Yeah, I can answer  
14 that.

15 WITNESS TAUZER: Okay.

16 WITNESS WHITMORE: So in the winter it's  
17 important that we have the variability, that we  
18 see the high flows. These are channel-shaping  
19 flows. It tumbles rocks. It moves sediment  
20 around. It prevents riparian vegetation from  
21 encroaching. It refreshes the substrate so that  
22 it cleans out sands and it makes it a clean,  
23 healthy substrate to support a robust benthic  
24 macroinvertebrate community, which will then  
25 provide the food resources to fish in Stanshaw

1 Creek pond.

2           And, you know, a hydrograph that is flat  
3 and maintained at a low baseline level, it will  
4 essentially turn a creek into something like a  
5 ditch where you just have a very simplified  
6 channel. It can narrow because of riparian  
7 encroachment. So we really look for those high  
8 volume, channel-shaping flows to maintain that  
9 healthy streambed.

10           MR. VOEGELI: So having that variation in  
11 the winter months is important also?

12           WITNESS WHITMORE: It is important.

13           MR. VOEGELI: This next question refers  
14 to Ms. Tauzer's report on page ten. And this is  
15 Exhibit NMFS-3. She mentions in this report that  
16 Upper Stanshaw Creek provides important  
17 macroinvertebrate production and a food source to  
18 the pool in the mainstem Klamath River.

19           And, Ms. Whitmore, you touched on this a  
20 little bit earlier, as far as the food source.  
21 Could you explain how Stanshaw contributes  
22 macroinvertebrate production to both the pool and  
23 to the mainstem Klamath?

24           WITNESS WHITMORE: Was this question for  
25 me?



1 MR. VOEGELI: Whoever would be most  
2 appropriately situated.

3 WITNESS WHITMORE: Yeah.  
4 Macroinvertebrates that are upstream in Stanshaw  
5 Creek are carried downstream and flow into  
6 Stanshaw Creek pond, where the fish are waiting.  
7 They also -- the macroinvertebrate there emerge,  
8 turn into terrestrial insects, like mayflies.  
9 And those resources will then, you know, move  
10 over the pond, die in the pond, be another source  
11 of nutrition for the fish there.

12 MR. VOEGELI: Okay. One other thing that  
13 Ms. Tauzer's report talks about is the importance  
14 of maintaining flow about the cross-section and  
15 flexion point. And because its importance to  
16 macroinvertebrate production and edge rearing  
17 habitat, Ms. Whitmore, I believe this is probably  
18 best for you, could you describe what is edge  
19 rearing habitat?

20 WITNESS WHITMORE: Yeah. It's important  
21 to include the entire width of the streambed.  
22 And the edge is a unique feature of a streambed,  
23 as far as that's where we see the intersection of  
24 vegetation, roots. That's where insects will  
25 crawl out and fall in. And it's just -- it's

1 just -- it contributes that characteristic to the  
2 overall production of the -- of the  
3 macroinvertebrate community.

4 MR. VOEGELI: This question is probably  
5 better directed to Ms. Tauzer.

6 Do you -- do you recall in your report  
7 your conclusion as to the appropriate CFS bypass  
8 to protect the edge rearing habitat and  
9 macroinvertebrates?

10 WITNESS TAUZER: Yes. That was two CFS.

11 MR. VOEGELI: Thank you. This next  
12 question, I think, is probably also best directed  
13 to Ms. Tauzer.

14 On page eight of your August 3rd, 2016  
15 flow recommendation, you site the Richter Study,  
16 suggesting that diversions limited to 6 to 20  
17 percent of unimpaired flow are protective of  
18 riverine ecology.

19 Can you -- can you describe for us why  
20 you recommended a maximum 10 percent diversion,  
21 as opposed to a higher end of 20 percent that  
22 Richter spoke about?

23 WITNESS TAUZER: Yeah. Richter did,  
24 through all his studies, found that the studies  
25 he looked at that protected the natural

1 hydrograph from 6 to 20 percent were protective  
2 with minimal changes to the ecosystem. And then  
3 he finally recommends that, you know, the -- they  
4 suggest that ten percent should be the number.

5           But -- so when I was evaluating this  
6 particular diversion, I was thinking that the  
7 watershed -- you know, we were going to consider  
8 the stream flow above the point of diversion as  
9 unimpaired or natural, but it actually has  
10 impairments to it. So that was one source of  
11 reasoning on it.

12           The other thing was that when you go  
13 to -- you know, it seems difficult to start to  
14 think about how you're going to implement a  
15 varying diversion, so it's going to have to -- at  
16 the time, through some of the stakeholder  
17 meetings, we were talking about maybe an average  
18 of a week or -- you know, so it wouldn't be every  
19 second of the day, varying the flow, it would be  
20 some increment. So it seemed conservative to say  
21 that if ten percent were diverted, there's going  
22 to be some variation around that number. So  
23 those were the reasons why ten percent seemed  
24 appropriate.

25           MR. VOEGELI: So in part, ten percent was

1 chosen to allow for some potential variation?

2 WITNESS TAUZER: Yeah, but, you know,  
3 while still trying to protect the high level of  
4 function, ecosystem function.

5 MR. VOEGELI: No additional questions.

6 HEARING OFFICER MOORE: Thank you, Mr.  
7 Voegeli.

8 And now, Karuk Tribe can have questions  
9 for cross-examination. Would you like to  
10 approach?

11 MR. HUNT: Nothing.

12 HEARING OFFICER MOORE: No, thanks?

13 And next, Old Man River Trust? No  
14 questions?

15 And then the three other parties who are  
16 not here.

17 And at this point, I would like to ask  
18 Counsel if you have any redirect testimony?

19 MR. KEIFER: (Off mike.) I believe I  
20 have one question.

21 HEARING OFFICER MOORE: Okay. That was a  
22 good catch.

23 MR. KEIFER: You'd think my boss was  
24 here.

25 HEARING OFFICER MOORE: He was here.

1 REDIRECT EXAMINATION BY

2 MR. KEIFER: Shari, you were asked on  
3 cross by Counsel for the ranch if during your  
4 visit and your observation of the pool, I believe  
5 in 2012, it was functioning properly; do you  
6 recall that --

7 WITNESS WHITMORE: Yes.

8 MR. KEIFER: -- question?

9 Your answer didn't indicate that  
10 diversions by the ranch were having no effect on  
11 SONCC, Coho, or any other species in Stanshaw  
12 Creek, did it?

13 WITNESS WHITMORE: Yeah. I can clarify.  
14 So during my time there I was unaware of  
15 diversions upstream and I was just focused on the  
16 habitat that I was seeing at the moment. And in  
17 the event that there was additional water in  
18 Stanshaw Creek, I don't know how many additional  
19 fish may have benefitted from that as far as  
20 maybe there would have been a larger plume -- I  
21 mean, absolutely, there would be a larger plume  
22 of cold water in the mainstem Klamath River.  
23 There may have been a connection maintained for a  
24 longer period of time with more flows. There may  
25 be more fish that were able to detect cold water

1 and to move into Stanshaw Creek, given that there  
2 was a larger volume of water.

3 So the habitat was functional in the  
4 sense that fish were growing at a high rate of  
5 growth and had, likely, an increased survival  
6 rate throughout the rest of their life.

7 However, I don't know who was missing  
8 out, I guess, if there would be more water.

9 MR. KEIFER: I think I'll leave that  
10 answer at that.

11 WITNESS WHITMORE: Okay.

12 MR. KEIFER: That's all I have. Thank  
13 you.

14 HEARING OFFICER MOORE: Okay. And now  
15 there's an opportunity for parties to conduct  
16 recross examination.

17 So first, the Prosecution Team, but it's  
18 limited to that --

19 MS. WEAVER: Yeah. No --

20 HEARING OFFICER MOORE: -- redirect.

21 MS. WEAVER: No recross.

22 HEARING OFFICER MOORE: Okay. And Marble  
23 Mountain Ranch, recross?

24 And Department of Fish and Wildlife?

25 MR. VOEGELI: No, thank you.

1 HEARING OFFICER MOORE: Okay. And Karuk?

2 Okay. Okay.

3 At this point, Staff?

4 UNIDENTIFIED MALE: (Off mike.)

5 (Indiscernible.)

6 HEARING OFFICER MOORE: Oh, okay. Yeah.

7 Klamath Riverkeeper? CSPA? PCFFA? Okay.

8 And Staff, do you have any questions for  
9 these panelists? You do? Okay.

10 MS. WEAVER: Do we want to huddle or just  
11 go for it?

12 HEARING OFFICER MOORE: I'm fine. Let's  
13 just --

14 MS. WEAVER: Okay.

15 HEARING OFFICER MOORE: -- ask your  
16 questions.

17 We'll be right with you.

18 (Pause in proceedings)

19 HEARING OFFICER MOORE: Okay. Fire away.

20 EXAMINATION BY

21 MS. IRBY: Good afternoon. I have one  
22 question for Shari.

23 At the time that you visited Stanshaw,  
24 did you observe the point where Stanshaw Creek  
25 meets the Klamath floodplain?

1 WITNESS WHITMORE: Yes.

2 MS. IRBY: At that time, how would you  
3 characterize it?

4 WITNESS WHITMORE: So Stanshaw Creek  
5 meets the floodplain at the refugial pool.  
6 That's where it, you know, spreads out and enters  
7 that pool. So there was a bit of an alluvial fan  
8 of sediment that comes down the creek because the  
9 elevation changes or the gradient changes. And  
10 it was spread out and tumbling over the rocks  
11 into a deep cold-water pool.

12 MS. IRBY: So would you say that the  
13 majority of flow from Stanshaw Creek was going  
14 into the pool at that time?

15 WITNESS WHITMORE: Yes, at that time it  
16 was.

17 MS. IRBY: Okay. Thank you.

18 EXAMINATION BY

19 MR. BUCKMAN: Good afternoon. I have one  
20 question -  
21 for you.

22 Is your minimum bypass flow -- is your  
23 recommended bypass flow an absolute minimum that  
24 you're recommending? And, in other words, is  
25 there like a higher level you would recommend, as



1 opposed to what you've -- what your  
2 recommendation is? Is it like a minimum, or is  
3 it like in the middle in terms of a variance of  
4 where you would set it? In terms of protection  
5 for the fish, what's your actual recommendation  
6 set at, if that's clear?

7 WITNESS TAUZER: Only -- I'm wondering,  
8 are you talking about the two CFS non anadromous  
9 reach?

10 MR. BUCKMAN: The 90 percent --

11 WITNESS TAUZER: Oh.

12 MR. BUCKMAN: -- and two CFS minimum?

13 WITNESS TAUZER: The two CFS minimum is  
14 the -- is intended to be the minimum, as long as  
15 we're talking about a flow that is returned, a  
16 nonconsumptive use. Because, you know, if you  
17 think about it, if you're going to have a  
18 nonconsumptive use, we have said before, 50  
19 percent of the flow is the minimum or other  
20 things. But in this case -- but usually we have  
21 some minimum. And so the two CFS is the minimum  
22 for the biologic reasons of protecting the wetted  
23 channel and the macro habitat, food production  
24 reasons. The -- and that all depends on the flow  
25 coming -- being returned to above the anadromous

1 reach. The 90 percent minimum in the anadromous  
2 reach is the minimum we're recommending.

3 And when we talked about, you know, the 6  
4 to 20 percent of Richter, I'm just going with  
5 what Richter suggests of a 10 percent maximum  
6 diversion will maintain good -- how does he put  
7 it -- economic function of the river -- I mean,  
8 not economic -- ecological function of the river.

9 EXAMINATION BY

10 MS. WEAVER: So I have a few questions  
11 for the panel.

12 Ms. Whitmore, in response to a question  
13 on cross, I believe you indicated that steelhead  
14 were not endangered; is that correct?

15 WITNESS WHITMORE: That's correct.

16 MS. WEAVER: And is that limited to the  
17 population in the Klamath River?

18 WITNESS WHITMORE: I'm speaking about the  
19 Klamath River population.

20 MS. WEAVER: Okay. Thank you. Were you  
21 here on Monday to hear witness testimony?

22 WITNESS WHITMORE: Yes.

23 MS. WEAVER: Do you recall hearing  
24 discussion about an event in the pool in Stanshaw  
25 Creek in which temperatures exceeded 100 degrees?

1 WITNESS WHITMORE: Yes.

2 MS. WEAVER: Did that ever happen while  
3 you were there?

4 WITNESS WHITMORE: No. I have  
5 temperature data from that time and it never  
6 reached levels like that.

7 MS. WEAVER: Are you -- I mean, just  
8 based on your experience working the Klamath  
9 system, are you ever aware of an event like that  
10 happening?

11 WITNESS WHITMORE: Where water  
12 temperatures reach 100 degrees?

13 MS. WEAVER: Something in the pool,  
14 something that you would have observed?

15 WITNESS WHITMORE: No.

16 MS. WEAVER: Okay. And how many --  
17 during your thesis work and your -- how many  
18 different pools have you visited, approximately  
19 in the Klamath system?

20 WITNESS WHITMORE: That year I had ten  
21 sites, and I believe four of them were  
22 tributaries and six of them were off-channel  
23 pools, ponds, that sort of thing.

24 MS. WEAVER: Okay. And how many -- how  
25 much time were you -- were you there in the range

1 of hours, days, weeks, whatever is easiest is  
2 fine, just in the Klamath system doing this --

3 WITNESS WHITMORE: That --

4 MS. WEAVER: -- the work that you did --

5 WITNESS WHITMORE: That year --

6 MS. WEAVER: -- on your thesis?

7 WITNESS WHITMORE: --of my thesis study  
8 specifically, or just --

9 MS. WEAVER: Right.

10 WITNESS WHITMORE: Well, it was over the  
11 course of probably nine months, at least biweekly  
12 for the majority of that, once every two weeks,  
13 maybe four hours at each visit.

14 MS. WEAVER: Okay. And that's for each  
15 site, or for Stanshaw specifically?

16 WITNESS WHITMORE: Stanshaw Creek.

17 MS. WEAVER: Okay.

18 WITNESS WHITMORE: I was thinking of  
19 Stanshaw Creek, yeah.

20 MS. WEAVER: Okay. Thank you. So this  
21 next set of questions is for both of you.

22 Let's start with Ms. Whitmore. We talked  
23 about the diurnal migration of Coho. And they --  
24 my understanding from your testimony was that  
25 they have specific times that they go out and

1 come back; is that correct?

2 WITNESS WHITMORE: Yes.

3 MS. WEAVER: Are those predictable, or do  
4 they change?

5 WITNESS WHITMORE: Everywhere I've seen  
6 it, it's been almost exactly timed with dawn and  
7 dusk. They're queued by light, I think.

8 MS. WEAVER: Okay. So would you need  
9 flows to facilitate connectivity at other times  
10 for the purposes of allowing this diurnal  
11 migration?

12 WITNESS WHITMORE: I mean, if you're in  
13 the season when -- if it's just for the diurnal  
14 migration you're talking about, I mean, I guess I  
15 don't know what you mean about need.

16 MS. WEAVER: Well, so, I mean, I'm an  
17 attorney, so my understanding of anything is  
18 grotesquely --

19 WITNESS WHITMORE: Yeah.

20 MS. WEAVER: -- oversimplified. But, I  
21 mean, it seems like if you had the, you know, the  
22 fish, based on your testimony, I think it was  
23 your testimony that the fish had this baseline --

24 WITNESS WHITMORE: Uh-huh.

25 MS. WEAVER: -- need to maintain a

1 thermal refugia --

2 WITNESS WHITMORE: Uh-huh.

3 MS. WEAVER: -- as a thermal refuge; is  
4 that correct?

5 WITNESS WHITMORE: Yes.

6 MS. WEAVER: And then there is an  
7 additional benefit if they're able to come and go  
8 as part of this diurnal migration --

9 WITNESS WHITMORE: Yes.

10 MS. WEAVER: -- and feed in the stream  
11 system? So it seems like it would at least be  
12 theoretically possible to design a flow regime to  
13 facilitate that while using the water for other  
14 purposes at other times?

15 WITNESS WHITMORE: Yeah, so that's what I  
16 thought you might be going with it. But there  
17 would be other detrimental effects to creating an  
18 unnatural hydrograph that would just connect, you  
19 know, one or two times per day; you know what I  
20 mean?

21 MS. WEAVER: Okay.

22 WITNESS WHITMORE: Yeah.

23 MS. WEAVER: So based on your  
24 professional experience, is that something that  
25 you're comfortable today saying would not work,

1 or you would -- you would need more information?

2 WITNESS WHITMORE: I'm comfortable saying  
3 that creating an unnatural hydrograph that  
4 fluctuates multiple times in a 24-hour period  
5 would be a poor decision, would be detrimental to  
6 Coho salmon.

7 MS. WEAVER: Detrimental, or not as good  
8 as having a consistent hydrograph? I mean, is it  
9 better to have less water consistently, or to --

10 WITNESS WHITMORE: You know, I would need  
11 to think about the effects.

12 MS. WEAVER: Okay.

13 WITNESS WHITMORE: And it would depend on  
14 the volumes, the fluctuations, you know, the  
15 degree of fluctuation that that would require and  
16 what that does to the upstream habitat,  
17 macroinvertebrate production and queuing fish.

18 MS. WEAVER: Okay.

19 WITNESS WHITMORE: You know, there's a  
20 lot of variables to consider with predicting what  
21 would happen with a new hydrograph. So --

22 MS. WEAVER: Okay.

23 WITNESS WHITMORE: -- I'm sorry, I can't  
24 answer that fully.

25 MS. WEAVER: Fine. Your answer has been

1 very helpful. Thank you.

2 Ms. Tauzer, do you -- what's your  
3 assessment of this concept? Could we design a  
4 flow regime that facilitated diurnal migration  
5 while conserving water for their uses at other  
6 times?

7 WITNESS TAUZER: I think theoretically it  
8 sounds like, you know, just thinking about the  
9 water, that you could do it. But that -- it's  
10 not just a faucet, it's a -- it has gravel and  
11 groundwater. And so when you just -- when you  
12 slow down flow you start to -- for a while the  
13 flow doesn't even change. It just sucks out  
14 anything that's retained in the bed material.  
15 And after time, you get to equilibrium until the  
16 flow decreases. And then as you -- so then you'd  
17 have that time delay of stopping the flow. And  
18 then when you start it back up you're going to  
19 have another time delay as it tries to refill  
20 those spaces that it emptied when you stopped it.  
21 And so you're going to have this strange  
22 fluctuation that would take lots of study to try  
23 to figure out how it's going to operate and what  
24 the effects, what the timing would be to try to  
25 match dusk and dawn on the fish. So --



1 MS. WEAVER: Okay. So --

2 WITNESS WHITMORE: -- I would say it  
3 would be really complicated. It would be  
4 something you'd want to avoid if you could.

5 MS. WEAVER: So would it be correct to  
6 conclude, based on your testimony, that it's --  
7 you can't rule out whether it would work as of  
8 right now? You'd need additional information to  
9 be able to say whether or not --

10 WITNESS TAUZER: I'm just talking  
11 about --

12 MS. WEAVER: -- it would be possible?

13 WITNESS TAUZER: -- the flow, you know,  
14 would it produce -- if you thought you were going  
15 to turn it on and off, is it going to produce the  
16 flows that you think it's going to?

17 MS. WEAVER: Right.

18 WITNESS TAUZER: So I would say it's not  
19 going to produce them, just in an on-off kind of  
20 way for sure.

21 MS. WEAVER: You would need --

22 WITNESS TAUZER: How big the effects are,  
23 you'd have to study.

24 MS. WEAVER: Okay. Thank you.

25 HEARING OFFICER MOORE: All right. No

1 further questions?

2           So at this point, I'd like request  
3 National Marine Fishery Service to offer exhibits  
4 into evidence.

5           MR. KEIFER: We offer.

6           HEARING OFFICER MOORE: And do any of the  
7 parties have any objections to these exhibits  
8 being included?

9           Seeing none, the exhibits are entered  
10 into the record.

11          (All NMFS exhibits are received.)

12          HEARING OFFICER MOORE: And we will now  
13 here the California Fish and Wildlife's opening  
14 statement and direct testimony.

15          Would everybody like maybe a five minute  
16 bio break? And then we'll get going again at  
17 3:10. Sound good?

18          (Off the record at 3:05 p.m.)

19          (On the record at 3:12 p.m.)

20          HEARING OFFICER MOORE: Department  
21 representatives, for your promptness, the Water  
22 Board is trying to catch up to you here. All  
23 right. Thank you very much.

24          And so I'll hand it over to you, Mr.  
25 Puccini.

1 MR. PUCCINI: Thank you.

2 HEARING OFFICER MOORE: -- for your  
3 opening statement and then direct testimony --  
4 okay, or opening statement. And then let me know  
5 when you'll start direct testimony, so we can do  
6 the oath.

7 MR. PUCCINI: Will do.

8 OPENING STATEMENT BY

9 MR. PUCCINI: The California Department  
10 of Fish and Wildlife supports the Prosecution  
11 Team's proposed order offered into evidence as  
12 Exhibit WR-1. CDFW agrees with the Prosecution  
13 Team that the Cole's and Marble Mountain Ranch  
14 have misused water in violation of the California  
15 Constitution and Water Code, and continue to do  
16 so, and have diverted and used water from  
17 Stanshaw Creek in a manner that harms public  
18 trust resources, and continues to do so. These  
19 resources include Coho salmon and other fish  
20 species, including steelhead and resident rainbow  
21 trout.

22 Indeed, as early as March 2000 when CDFW  
23 filed a protest against Application 29449, CDFW  
24 voiced a strong concern that the Cole's and  
25 Marble Mountain Ranch's water diversion on

1 Stanshaw Creek could adversely affect fish  
2 resources by reducing stream flows during  
3 critical periods, and asserted that maintaining  
4 sufficient flows in Stanshaw Creek was important  
5 to maintain thermal refuge for salmonids.

6           After two -- after over two decades of  
7 stakeholders working with the Coles to address  
8 these and other problems associated with their  
9 water diversions and diversions facilities  
10 without success, CDFW agrees that it is time for  
11 the State Water Board to step in and order the  
12 Coles and Marble Mountain Ranch to implement  
13 corrective actions on a specific schedule. Doing  
14 so would have the added benefit of affording the  
15 Coles greater certainty for purposes of planning  
16 ranch operations in the coming years.

17           The Department, in its testimony, has  
18 provided facts and information that support the  
19 Prosecution Team's proposed order. Jennifer Bull  
20 recounts the Department's longstanding position  
21 that the Cole's and Marble Mountain Ranch's water  
22 diversions from Stanshaw Creek adversely affect  
23 Coho salmon and steelhead by increasing water  
24 temperature within the creek, reducing thermal  
25 refugia for Klamath River fish, and impeding fish

1 passage during critical periods. For those  
2 reasons, the Department has long recommended that  
3 the Coles and Marble Mountain Ranch be required  
4 to maintain a minimum flow in Stanshaw Creek,  
5 very similar to the flow recommendation made by  
6 the National Marine Fishery Service in Exhibit  
7 NMFS-3.

8 Caitlin Bean recounts four grant  
9 proposals she has reviewed since 2011. As Ms.  
10 Bean explains, each proposal emphasized the  
11 importance of cold water -- the cold-water pool  
12 at the mouth of Stanshaw Creek, and each proposal  
13 was intended to address the impacts on Coho  
14 salmon caused by the Cole's and Marble Mountain  
15 Ranch's water diversion.

16 Curt Babcock recounts the Cole's and  
17 Marble Mountain Ranch's history of noncompliance  
18 with Fish and Game Code section 1602 for the  
19 diversion of water until this year, and explains  
20 that one of the measures in the draft Streambed  
21 Alteration Agreement the Department submitted to  
22 the Coles and Marble Mountain Ranch in June of  
23 this year is consistent with the flow  
24 recommendation made by NMFS in Exhibit NMFS-3.

25 Robert Holmes cannot be here today, but

1 were he present he would have recounted his  
2 review of the flow recommendation made by NMFS in  
3 Exhibit NMFS-3 and concur that the flows will  
4 provide a high level of protection for over-  
5 summering Coho salmon in Stanshaw Creek.

6           In sum, the Department has long  
7 recognized that the Cole's and Marble Mountain  
8 Ranch's diversion of water from Stanshaw Creek  
9 adversely effects Coho salmon and other fish  
10 resources. Based on the Department's experience  
11 and knowledge regarding this diversion and its  
12 facilities, and consistent with the Department's  
13 responsibilities as a state's trustee for the  
14 fish and wildlife resources, the Department urges  
15 the State Water Board to adopt the Prosecution  
16 Team's proposed order.

17           And with that, I will turn it over to our  
18 three witnesses here today.

19           HEARING OFFICER MOORE: Thank you, Mr.  
20 Puccini.

21           And at this time will the witnesses  
22 testifying please stand and raise your right  
23 hand?

24           (Witnesses are sworn.)

25           HEARING OFFICER MOORE: Thank you.

1 Please be seated and please begin.

2 MR. PUCCINI: We'll begin with Jennifer  
3 Bull.

4 JENNIFER BULL,  
5 called as a witness for California Department of  
6 Fish and Wildlife, having been previously duly  
7 sworn, was examined and testified as follows:

8 DIRECT TESTIMONY BY

9 WITNESS BULL: Good afternoon. My name  
10 is Jennifer Bull. I am a Senior Environmental  
11 Scientist Supervisor for the California  
12 Department of Fish and Wildlife's Yreka Fisheries  
13 Program. I was previously the Siskiyou County  
14 Fisheries district biologist for CDFW for five  
15 years, which is one of the positions I currently  
16 supervise.

17 The testimony I prepared is offered into  
18 evidence as Exhibit CDFW-1. I have taken the  
19 oath, and I have no changes to make to my  
20 testimony.

21 In my testimony, I recount that CDFW has  
22 long -- has had a longstanding concern that the  
23 Cole's water diversions from Stanshaw Creek could  
24 adversely affect fish and other sensitive species  
25 by reducing stream flows during critical periods,

1 that CDFW recommended to the State Water Board  
2 that the Cole's bypass a minimum of 2.5 CFS  
3 measured at Highway 96; that in May 2000, CDFW  
4 concluded that stream flows below two CFS would  
5 create a low-flow barrier near the mouth of  
6 Stanshaw Creek, and such a barrier would prevent  
7 salmonids from accessing Stanshaw Creek and the  
8 cool refugia provided by the creek and the off-  
9 channel pond; that in CDFW continues to recommend  
10 that the Coles return the nonconsumptive portion  
11 of the diverted water to Stanshaw Creek; and that  
12 CDFW included this as a condition in the draft  
13 Streambed Alteration Agreement CDFW submitted to  
14 the Coles this last June.

15 MR. PUCCINI: We'll now hear from Caitlin  
16 Bean.

17 CAITLIN BEAN,  
18 called as a witness for California Department of  
19 Fish and Wildlife, having been previously duly  
20 sworn, was examined and testified as follows:

21 DIRECT TESTIMONY BY

22 WITNESS BEAN: Good afternoon. My name  
23 is Caitlin Bean. I'm a Senior Environmental  
24 Scientist in the California Department of Fish  
25 and Wildlife Northern Region Office, which covers



1 Siskiyou County. I was hired by the region as  
2 the Coho Recovery Coordinator, to work on issues  
3 related to the recovery of Coho salmon in  
4 Siskiyou County. One of my roles as the Coho  
5 Recovery Coordinator has been to participate in  
6 the review of grant proposals submitted to the  
7 Department's Fisheries Restoration Grant Program.

8 I've taken the oath and make no changes  
9 to my testimony.

10 In my testimony, I recount that Coho  
11 salmon and the Klamath River Watershed is listed  
12 as a threatened species under the State and  
13 Federal Endangered Species Act; that a report  
14 prepared for the Karuk Tribe in January 2015  
15 found that flows in Lower Stanshaw Creek, less  
16 than one CFS, coincided with reduced volume, poor  
17 water quality, and direct mortality of juvenile  
18 Coho salmon in the floodplain pool; that the  
19 Department included in the Recovery Strategy for  
20 California Coho Salmon, published in 2004, a  
21 recovery task specific to Stanshaw Creek, a  
22 request to the State Board that they investigate  
23 the legality of diversions and the use of water  
24 in Stanshaw Creek; that the Coles had proposed in  
25 2005 and the Department supported returning the

1 effluent from hydroelectric generation to  
2 Stanshaw Creek, maintaining minimum instream  
3 flows in the creek past the point of diversion,  
4 installing a half-round culvert in the ditch to  
5 prevent berm failures and improve efficiency, and  
6 installing a solar-powered generation system;  
7 that I reviewed several grant proposals that  
8 variously recognized that the floodplain pool is  
9 excellent cold-water, summer refugia and low-  
10 velocity winter refugia for juvenile Coho salmon;  
11 that the Coles -- excuse me -- water diversion  
12 adversely impacts rearing juvenile Coho salmon in  
13 Lower Stanshaw Creek through decreased instream  
14 flows and sedimentation from ditch failures; and  
15 that an investigation was needed to verify the  
16 Cole's pre-1914 water right in order to obtain  
17 grant funding; that in early 2016 the State Water  
18 Board requested that the Department and National  
19 Marine Fishery Service work together to estimate  
20 bypass flow needs for the Cole's diversion; that  
21 I requested Robert Holmes, the Department's  
22 Instream Flow Program Coordinator, to review NMFS  
23 flow recommendation; and that in a telephone call  
24 with myself and Jennifer Bull, Mr. Holmes stated  
25 that he supported the methodology and the results

1 of the NMFS evaluation, and that the Department  
2 included the flow prescriptions in NMFS flow  
3 recommendations document in the draft Streambed  
4 Alteration Agreement that the Department  
5 submitted to the Coles in this last June.

6 MR. PUCCINI: Can I just interrupt really  
7 quickly? I need to talk to Curt Babcock ever so  
8 quickly.

9 HEARING OFFICER MOORE: Yes.

10 MR. PUCCINI: Mr. Babcock.

11 HEARING OFFICER MOORE: Okay. Please  
12 proceed.

13 CURT BABCOCK,  
14 called as a witness for California Department of  
15 Fish and Wildlife, having been previously duly  
16 sworn, was examined and testified as follows:

17 DIRECT TESTIMONY BY

18 WITNESS BABCOCK: Good afternoon. My  
19 name is Curt Babcock. I'm an Environmental  
20 Program Manager in the California Department of  
21 Fish and Wildlife's Northern Region Office, which  
22 cover Siskiyou County.

23 The testimony I prepared is offered into  
24 evidence as Exhibit CDFW-28. I've taken the oath  
25 and I have no changes to make to my testimony.

1           In my testimony, I recount that in 1999,  
2 CDFW issued to Marble Mountain Ranch a five-year  
3 Streambed Alteration Agreement for maintenance  
4 work under former Fish and Game Code section  
5 1603; that CDFW found the Coles violated the  
6 maintenance agreement and the Fish and Game Code  
7 by maintaining a rock diversion dam that blocked  
8 or impeded fish passage in Stanshaw Creek; that  
9 in May 2016, CDFW reminded Doug Cole that he  
10 would need to notify CDFW under Fish and Game  
11 Code section 1602 by the end of the Year 2016 to  
12 divert water from Stanshaw Creek; that in March  
13 2017, CDFW received a notification from Mr. Cole  
14 for the diversion water from Stanshaw Creek,  
15 among other activities; that on June 9th, 2017,  
16 CDFW submitted a draft streambed alteration  
17 agreement to Mr. Cole; that the draft agreement  
18 describes the potential impacts of the Coles'  
19 water diversion on fish and wildlife resources,  
20 including increased water temperature due to  
21 lower stream flows, change in dissolved oxygen,  
22 direct impacts on benthic organisms, change in  
23 flow depth, width and velocity; and that to avoid  
24 and minimize these and other potential impacts  
25 described in the draft agreement, CDFW included a

1 number of protective measures in the draft  
2 Streambed Alteration Agreement, including  
3 measures consistent with NMFS flow  
4 recommendation; that on July 27th, 2017, CDFW and  
5 the Coles' Attorney, Barbara Brenner, agreed to  
6 postpone a meeting to discuss measures in the  
7 draft agreement the Coles disagreed with until  
8 after this hearing is finished.

9 MR. PUCCINI: I have a few questions for  
10 Ms. Bull.

11 HEARING OFFICER MOORE: Yes.

12 MR. PUCCINI: Thank you.

13 HEARING OFFICER MOORE: Please proceed.

14 (Document displayed on screen)

15 DIRECT EXAMINATION BY

16 MR. PUCCINI: Jennifer, on the screen is  
17 CDFW Exhibit 5, which I'll represent is a  
18 memorandum written by former CDFW Employee,  
19 Dennis Maria. Do you see the highlighted text?

20 WITNESS BULL: Uh-huh. Yes.

21 MR. PUCCINI: It reads,

22 "Flow in Stanshaw Creek was 2.3 cubic feet  
23 per second as measured as the tail end of the  
24 relatively large pool immediately downstream  
25 of the Highway 96 twin box culverts. This

1 amount of flow is barely adequate to sustain  
2 fish life and to maintain unimpeded access  
3 for juvenile steelhead in the creek below  
4 Highway 96."

5 Is it your understanding that the pool  
6 Mr. Maria is describing is not the off-channel  
7 pool, but instead a pool of water actually in the  
8 creek itself?

9 WITNESS BULL: That's correct.

10 MS. MCCUE: Could you say what page that  
11 was?

12 MR. PUCCINI: That was page one.

13 MS. MCCUE: Thank you.

14 (Document displayed on screen)

15 MR. PUCCINI: Up on the screen now is  
16 CDFW Exhibit 6, which is also a memorandum from  
17 Dennis Maria, dated July 31st, 2000. Do you see  
18 the text highlighted there, Ms. Bull?

19 WITNESS BULL: Yes.

20 MR. PUCCINI: It reads,

21 "On July 26, 2000, I made a brief  
22 electroshocking survey in Lower Stanshaw  
23 Creek, beginning from the large pool located  
24 immediately below the discharge end of the  
25 twin concrete culverts diverting beneath

1 State Highway 96. Several juvenile steelhead  
2 were captured, most of which were young of  
3 the year, about two to three inches in  
4 length. Approximately 150 feet below this  
5 pool a single juvenile Coho was captured,  
6 thereby confirming the presence of Coho in  
7 this stream."

8 Do you understand where Mr. Maria uses  
9 the word "pool" in both those instances to be not  
10 the off-channel pool at the base of Stanshaw  
11 Creek, but actually pools in the creek itself?

12 WITNESS BULL: That's correct.

13 MR. PUCCINI: You mentioned that you  
14 visited Marble Mountain -- Marble Mountain Ranch  
15 on two different occasions in your testimony, as  
16 CDFW Exhibit 1.

17 What was the purpose of your visit to the  
18 ranch in June 2012?

19 WITNESS BULL: I was part of the FRGP  
20 Field Review Team that was evaluating the  
21 proposal for the Marble Mountain Ranch.

22 MR. PUCCINI: What does FRGP stand for?

23 WITNESS BULL: I'm sorry. Fisheries  
24 Restoration Grant Program.

25 MR. PUCCINI: Okay. And what was the

1 purpose of your visit to the ranch in May of  
2 2015?

3 WITNESS BULL: I was contacted in early  
4 May. Mr. Cole did call me and wanted to find out  
5 how he could stock his pond. And so I explained  
6 the process, which included a field visit to  
7 evaluate his pond ahead of time.

8 MR. PUCCINI: Thank you. That's all the  
9 questions I have.

10 HEARING OFFICER MOORE: Okay. Thank you  
11 very much.

12 And at this time, we're going to move  
13 into cross-examination of the witnesses. And  
14 first up would be Division of Water Rights  
15 Prosecution Team.

16 CROSS-EXAMINATION BY

17 MR. PETRUZZELLI: Okay. Ms. Bean, I  
18 wanted to -- in your testimony you talk about the  
19 various grants that were being evaluated. Before  
20 I start asking you more about the grants, since a  
21 lot of us aren't familiar with some of these  
22 acronyms and organizations, can you explain what  
23 the Coho Enhancement Fund is?

24 WITNESS BEAN: Sure. The Coho  
25 Enhancement Fund is an annual funding source that



1 is derived -- well, it comes from PacifiCorp.  
2 It's a requirement in their HCP that they have  
3 entered into with NMFS. And it requires that  
4 they put up \$500,000 a year, specifically for  
5 projects on the ground in the Klamath system  
6 below the Iron Gate Dam that improve the chances  
7 for Coho recovery in the system, potentially  
8 mitigating the effects of the dams. The money is  
9 provided to National Fish and Wildlife  
10 Foundation. And the Review Team includes the  
11 Department of Fish and Wildlife, NOAA Fisheries,  
12 PacifiCorp, and NFWF.

13 MR. PETRUZZELLI: And were you a part of  
14 the review team?

15 WITNESS BEAN: Yes.

16 MR. PETRUZZELLI: Okay.

17 WITNESS BEAN: And then did you want me  
18 to talk about the other grant program?

19 MR. PETRUZZELLI: Yeah. I was going to  
20 ask you about --

21 WITNESS BEAN: Oh, sorry.

22 MR. PETRUZZELLI: Well, first, what does  
23 HCP stand for?

24 WITNESS BEAN: Habitat Conservation Plan.

25 MR. PETRUZZELLI: Okay. And that's

1 required by the Endangered Species Act?

2 WITNESS BEAN: Correct.

3 MR. PETRUZZELLI: Okay. And what is  
4 FRGP?

5 WITNESS BEAN: Fisheries Restoration  
6 Grant Program is a program that the Department  
7 manages for the implementation of projects that  
8 restore aquatic habitat throughout the state. In  
9 the past it -- there was an opportunity to  
10 receive higher scores if you were improving Coho  
11 habitat.

12 MR. PETRUZZELLI: Okay. And what's NFWF?

13 WITNESS BEAN: National Fish and Wildlife  
14 Foundation.

15 MR. PETRUZZELLI: Okay. And who are they  
16 and what --

17 WITNESS BEAN: They are an organization  
18 that have been structured to manage funds that  
19 are identified by agencies. I'm not quite clear  
20 on how that all occurred, but they disperse these  
21 funds as like a go-between.

22 MR. PETRUZZELLI: And what are the funds  
23 for?

24 WITNESS BEAN: Restoration Project.

25 Well, they manage all kinds of --

1 MR. PETRUZZELLI: Okay.

2 WITNESS BEAN: -- funding programs.

3 MR. PETRUZZELLI: Okay.

4 WITNESS BEAN: But this specifically is  
5 for Coho habitat restoration.

6 MR. PETRUZZELLI: Okay. And what is the  
7 Mid Klamath Watershed Council?

8 WITNESS BEAN: They are a nonprofit  
9 organization that implements all kinds of  
10 restoration projects in the Mid Klamath,  
11 including Coho recovery projects.

12 MR. PETRUZZELLI: Okay. And what was  
13 their involvement as it relates to the Coles and  
14 Marble Mountain?

15 WITNESS BEAN: The funding programs  
16 require the applicant to be either from a  
17 nonprofit organization or a government  
18 organization. So I'm -- I don't know what the  
19 relationship between MCWC and the Coles was, but  
20 MCWC submitted the grants to these two programs  
21 to improve habitat on Stanshaw Creek.

22 MR. PETRUZZELLI: Okay. And what -- and  
23 how did all of these organizations fit together  
24 into the grant for the Lennihan Report?

25 WITNESS BEAN: So the Lennihan Report was

1 funded by the grant -- by a grant that NFWF  
2 provided to Mid Klamath Watershed Council.  
3 They -- so I don't -- I was not -- so the  
4 relationship was between Mid Klamath and NFWF --

5 MR. PETRUZZELLI: Okay.

6 WITNESS BEAN: -- although there was a  
7 party of government employees that coordinated  
8 with NFWF on decision-making regarding the grant.

9 The -- I believe the way it was  
10 structured was that there was a specified amount  
11 of money that would be dispersed for the water  
12 rights analysis. And then there would be a  
13 decision point regarding whether or not there was  
14 agreement around the results of that analysis.  
15 If there was agreement, there were additional  
16 funds in the grant that could be dispersed to  
17 implement other measures.

18 MR. PETRUZZELLI: And can you talk about  
19 what the purpose of this report was, why it  
20 was -- why it was done?

21 WITNESS BEAN: The Department cannot fund  
22 projects related to the diversion of water  
23 without having some verification of the water  
24 right. And we recommended to NFWF that they  
25 adopt this policy for the Coho Enhancement Fund.

1 The implication is that you might get down the  
2 road with an engineering design --

3 MR. PETRUZZELLI: Uh-huh.

4 WITNESS BEAN: -- that was allowing more  
5 water to be diverted than the actual right was.

6 So can you -- I think I got off track.

7 MR. PETRUZZELLI: No. No, you're fine.

8 And sort of what was, you know, what was  
9 the genesis for, you know, looking at and doing  
10 this report? Was it so -- was it to provide kind  
11 of a springboard for additional grants and funds  
12 for the improvement of the Marble Mountain  
13 diversions?

14 WITNESS BEAN: The Department had been  
15 discussing issues related to the impacts of the  
16 diversion in Stanshaw Creek for years and was  
17 committed to trying to find a way to solve the  
18 problem. I was not in this position. I think  
19 there was a grant before in -- a grant  
20 application before 2005 that I had heard about  
21 when I took this position in '05, and the issue  
22 being that no funding could be provided until we  
23 resolved the water right issue. So it took quite  
24 a while to get to the place where that had become  
25 a task --

1 MR. PETRUZZELLI: Okay.

2 WITNESS BEAN: -- in a grant that was --  
3 you know, where Will, somehow, was able to  
4 negotiate that task in that grant application.

5 MR. PETRUZZELLI: Okay. And were you  
6 also involved in the review for the grant  
7 application for the six-inch pipe?

8 WITNESS BEAN: The six-inch pipe, if I  
9 recall correctly, the six-inch pipe was a  
10 solution that was proposed in the -- within the  
11 context of the Coho Enhancement Fund Grant. So  
12 the money was spent for Martha and Joey's work.  
13 And then there was this additional funding that  
14 was available, but we had to decide whether or  
15 not it could be dispersed. So there were these  
16 conversations that occurred around what that  
17 would look like.

18 The six-inch pipe came as a potential  
19 solution to a short -- the short-term issue of  
20 impacts due to the diversion of water. The pipe  
21 would have allowed the -- was to -- my  
22 understanding was the pipe was proposed to  
23 provide a temporary solution that would allow a  
24 long-term solution to be developed. The grant  
25 cycle takes an enormous amount of time. And we

1 don't fund implementation projects without having  
2 reviewed and approved engineering designs. So  
3 the goal was to get some engineering solutions on  
4 the table to do the energy audit. And then the  
5 next grant would have been to develop engineer  
6 designs to a level where the implementation  
7 dollars could be applied for.

8           So that whole thing was going to take  
9 many years. And it was my understanding that the  
10 six-inch pipe was proposed as an interim solution  
11 while all that other stuff was being worked out.

12           MR. PETRUZZELLI: So how did the energy  
13 audit fit into this?

14           WITNESS BEAN: The energy audit was a  
15 part -- if I recall correctly, the energy audit  
16 was a part of that CEF Grant proposal, because  
17 there was some question regarding whether or not  
18 hydropower was the appropriate solution, long-  
19 term solution.

20           MR. PETRUZZELLI: And in the  
21 conversations, looking at grant -- the grant  
22 applications, what -- to what extent was  
23 hydropower seen as, you know, having a future for  
24 Marble Mountain?

25           WITNESS BEAN: Well, I think from the

1 resources agencies, and, of course, you know,  
2 these funding opportunities are specifically to  
3 recover Coho, we -- I can speak for myself, I had  
4 hoped that there would be another solution, maybe  
5 a solar solution.

6 MR. PETRUZZELLI: Okay. So the grant --  
7 so strike that.

8 So for these grants, can they be used for  
9 mitigation projects?

10 WITNESS BEAN: No.

11 MR. PETRUZZELLI: Okay. And what is an  
12 enforcement action or an enforcement -- is an  
13 enforcement action -- strike that.

14 Would an enforcement order issued by the  
15 State Water Board or the Regional Water Board be  
16 considered a mitigation action?

17 WITNESS BEAN: Absolutely.

18 MR. PETRUZZELLI: Okay. So actions done  
19 to comply with order -- enforcement orders of the  
20 State Water Board or the Regional Water Board  
21 would be considered mitigation?

22 WITNESS BEAN: That would not be an  
23 appropriate use of public dollars. And, yes,  
24 that would be considered mitigation --

25 MR. PETRUZZELLI: Okay.



1 WITNESS BEAN: -- mitigation.

2 MR. PETRUZZELLI: So until the Regional  
3 Water Board or the State Water Board issued an  
4 enforcement order, those funds remained  
5 available?

6 WITNESS BEAN: Correct.

7 MR. PETRUZZELLI: Okay. When the  
8 Regional Water Board and the State Water Board  
9 issued their investigation -- respective  
10 Investigation Reports in December of 2015, was,  
11 at that point, was it -- were the -- would the  
12 grants be considered funding mitigation?

13 WITNESS BEAN: Say the title of the  
14 document one more time?

15 MR. PETRUZZELLI: Okay. So we're -- the  
16 Investigation Reports.

17 WITNESS BEAN: The Investigation Report -  
18 -

19 MR. PETRUZZELLI: Okay.

20 WITNESS BEAN: -- no, it would not have  
21 resulted in mitigation.

22 MR. PETRUZZELLI: So the Investigation  
23 Reports, you know, to the extent they said things  
24 like we recommend you undertake these actions,  
25 undertaking those recommendations would not be

1 considered mitigation?

2 WITNESS BEAN: Recommendations are not  
3 considered mitigation.

4 MR. PETRUZZELLI: Okay. And was the  
5 Draft Cleanup and Abatement Order issued by the  
6 Regional Water Board considered -- would  
7 corrective actions in the Draft Cleanup and  
8 Abatement Order be considered mitigation?

9 WITNESS BEAN: The Draft Order was --

10 MR. PETRUZZELLI: Remember, it's just a  
11 Draft Order.

12 WITNESS BEAN: -- was not considered  
13 requiring mitigation, but there were  
14 conversations at that time regarding the fact  
15 that if it was finalized, these public dollars  
16 would no longer be available.

17 MR. PETRUZZELLI: Did those conversations  
18 include Will Harling?

19 WITNESS BEAN: Yes.

20 MR. PETRUZZELLI: Do you remember if  
21 those conversations included the Coles or their  
22 legal counsel?

23 WITNESS BEAN: I was not party to a  
24 conversation --

25 MR. PETRUZZELLI: Okay.

1 WITNESS BEAN: -- like that.

2 MR. PETRUZZELLI: So after the -- after  
3 the Regional Water Board and the State Water  
4 Board issued their respective Investigation  
5 Reports with the recommendations in those reports  
6 in December 2015 there were no mitigation  
7 requirements in the context of the grants?

8 WITNESS BEAN: Correct.

9 MR. PETRUZZELLI: Okay. So the grant  
10 funding was still available for that time?

11 WITNESS BEAN: Yes.

12 MR. PETRUZZELLI: Okay. So, Jennifer,  
13 I -- Ms. Bull, my next questions are for you.

14 Are Coho a listed species under the  
15 California Endangered Species Act?

16 WITNESS BULL: Yes.

17 MR. PETRUZZELLI: And how -- can you  
18 explain what their listing status is?

19 WITNESS BULL: They're a California  
20 threatened.

21 MR. PETRUZZELLI: Okay. And steelhead?

22 WITNESS BULL: No.

23 MR. PETRUZZELLI: Okay. You mentioned  
24 Mr. Cole invited you out to the ranch to look at  
25 the pond.

1           Would he have normally needed a permit to  
2 stock that pond?

3           WITNESS BULL:    Yes.

4           MR. PETRUZZELLI:   What was he looking to  
5 stock the pond with?

6           WITNESS BULL:    The best as I recall would  
7 be trout, but I don't recall the exact species.  
8 But you have to get a private stocking permit  
9 from the Department, which requires a pre-  
10 stocking survey.  But I'm not absolutely  
11 positive.  I assume.

12          MR. PETRUZZELLI:   Okay.  And, you know,  
13 when you need a -- and when you say that a permit  
14 is required, you know, I infer that to mean that  
15 you don't first stock a pond with trout and then  
16 ask for a permit?

17          WITNESS BULL:    Correct.

18          MR. PETRUZZELLI:   Okay.  So when Mr. Cole  
19 invited you out, what was the purpose of that  
20 invitation?

21          WITNESS BULL:    Well, I informed him that  
22 I needed to do the pre-stocking evaluation, so we  
23 agreed on a time.  He wasn't able to meet me out  
24 there, but I was -- I went out there to evaluate  
25 for what are called decision species in our EIR

1 which are some listed, some are not, some are  
2 candidate. But the main species that I'm looking  
3 at impacts to are foothill yellow-legged frog,  
4 Cascade frog, willow flycatcher, and steelhead,  
5 Chinook and Coho salmon.

6 MR. PETRUZZELLI: Okay. And was a  
7 stocking permit eventually issued?

8 WITNESS BULL: No.

9 MR. PETRUZZELLI: Okay. Ms. Bean, I had  
10 a couple other questions for you.

11 To your knowledge, would the grant  
12 funding for the six-inch pipe have required  
13 Marble Mountain to give up the hydropower portion  
14 of its claimed water right?

15 WITNESS BEAN: Give up temporarily.

16 MR. PETRUZZELLI: What does -- in what  
17 sense temporarily?

18 WITNESS BEAN: Well, because it would  
19 take so long. I explained that grant cycle --

20 MR. PETRUZZELLI: Okay.

21 WITNESS BEAN: -- review period and the  
22 staged requirement we have for engineered  
23 drawings. And then, only then can we provide  
24 money for implementation. So it was my  
25 understanding that the six-inch pipe would

1 deliver the consumptive use, and that there would  
2 be a -- and temporarily, until these solutions  
3 were agreed on, the nonconsumptive water would  
4 not be provided.

5 MR. PETRUZZELLI: Do you recall -- do you  
6 recall discussion about eventual installation of  
7 a second pipe to support hydropower diversion?

8 WITNESS BEAN: I do believe there were  
9 conversations to that effect.

10 MR. PETRUZZELLI: Okay. Would that have  
11 been eligible for grant funding?

12 WITNESS BEAN: Highly unlikely.

13 MR. PETRUZZELLI: Okay. And what was --

14 WITNESS BEAN: Well, our grants.

15 MR. PETRUZZELLI: Okay. Was there a  
16 contemplated power alternative in the -- for this  
17 temporary time period that hydropower potentially  
18 would have been unavailable?

19 WITNESS BEAN: Well, I'm trying to recall  
20 the details. I just -- I remember that Joey  
21 Howard had implied to me that there was an  
22 opportunity for a solar solution. And in my  
23 limited involvement at that time, I just thought,  
24 oh, great, that sounds good.

25 MR. PETRUZZELLI: Okay. So you had heard

1 discussion about, you know, actually trying to  
2 bring in some kind of solar power system, or  
3 something other than hydropower?

4 WITNESS BEAN: Yes.

5 MR. PETRUZZELLI: Okay. All right.

6 Okay. And those are my questions.

7 HEARING OFFICER MOORE: All right. Thank  
8 you, Counsel.

9 Next, Douglas and Heidi Cole, Marble  
10 Mountain Ranch, cross-examination of the  
11 witnesses for Department of Fish and Wildlife.

12 CROSS-EXAMINATION BY

13 MS. BRENNER: Good afternoon. Ms. Bean,  
14 let's just go back to your -- just the most  
15 immediate testimony.

16 You indicated the grant process is quite  
17 lengthy. You need to verbalize --

18 WITNESS BEAN: Yes.

19 MS. BRENNER: -- your responses. Sorry.  
20 Years?

21 WITNESS BEAN: it takes about a year from  
22 the time you submit an application until you may  
23 find out -- until the funds are dispersed.

24 MS. BRENNER: Okay. And this particular  
25 grant -- go ahead.

1                   WITNESS BEAN:   For the Fisheries  
2 Restoration Grant Program, that's true. For the  
3 Coho Enhancement Fund, which the Department does  
4 not manage, the grants are dispersed more  
5 quickly.

6                   MS. BRENNER:   Okay. Do you know what the  
7 financial limitations of those grant  
8 disbursements are? In other words, can you grant  
9 \$1 million?

10                  WITNESS BEAN:   The Coho Enhancement Fund  
11 is limited to \$500,000 annually. So --

12                  MS. BRENNER:   Total?

13                  WITNESS BEAN:   Total. The Fisheries  
14 Restoration Grant Program is funded at a much  
15 greater limit, which changes each year.

16                  But I can say this, \$1 million project  
17 would eliminate the chance of doing a number of  
18 smaller projects. And so high-cost projects are  
19 weighed against other applications, so you're  
20 looking for your biggest bang for your buck on  
21 the projects.

22                  MS. BRENNER:   Right. And you indicated  
23 that there has to be final engineered drawings  
24 before any grant disbursements; correct?

25                  WITNESS BEAN:   For implementation grants



1 to be applied for, your proposed project would  
2 require 100 percent engineered drawings that were  
3 reviewed and approved by the Department.

4 MS. BRENNER: Does that review and  
5 approval of engineering drawings often take quite  
6 some time?

7 WITNESS BEAN: I've never -- I've never  
8 heard that there was an issue related to the time  
9 the Department takes to review them.

10 MS. BRENNER: Do those implementation  
11 grants also require all permitting to be  
12 obtained?

13 WITNESS BEAN: The Department grant  
14 program has included permitting, and still does,  
15 for --

16 MS. BRENNER: So -- but before you can  
17 implement, you have to have all the permitting in  
18 place, as well?

19 WITNESS BEAN: So when the Department  
20 issues money through the Fisheries Restoration  
21 Grant Program, they've applied for -- they have  
22 standing permits from the Regional Board, NOAA  
23 Fisheries. They do their own CEQA analysis. And  
24 a Streambed Alteration Agreement might be the  
25 only permit that an applicant might require for

1 implementation.

2 MS. BRENNER: To implement the return  
3 flow on the Marble Mountain diversion,  
4 nonconsumptive use, back to Stanshaw would  
5 require a number of permits; correct?

6 WITNESS BEAN: I'm not aware of all the  
7 permits. I'm speaking about the public trust,  
8 you know, our permitting issuance.

9 MS. BRENNER: Right. Right. It wouldn't  
10 cover things like a pipe down a highway, the  
11 permitting requirements to lay a pipe down a  
12 highway?

13 WITNESS BEAN: Yeah. I don't know what  
14 all the permits would be for that.

15 MS. BRENNER: Okay. So you did -- you  
16 did confirm that there would not be -- if the  
17 six-inch pipe proposal had been granted, if the  
18 grant funds were received for that proposal,  
19 there would be no hydro use? No water would be  
20 allowed to be diverted for hydro until some  
21 solution came with regard to that return flow;  
22 correct?

23 WITNESS BEAN: That was my understanding.

24 MS. BRENNER: That could have taken years  
25 to resolve?

1 WITNESS BEAN: Potentially.

2 MS. BRENNER: Do you know if -- and this  
3 is to either one of you, Ms. Bull or Ms. Bean.

4 Did CDFW ever consider the inability to  
5 meet the NMFS bypass flow requirements when  
6 supporting those bypass flow requirements? Did  
7 you ever consider the ability to actually meet  
8 the requirement by the Coles?

9 WITNESS BEAN: The flow was estimated to  
10 determine the needs for fisheries. And there's  
11 no -- it's a mathematical evaluation. There's no  
12 way to --

13 MS. BRENNER: So the answer is no?

14 WITNESS BEAN: The answer is no. I mean,  
15 no, that's not true. I can't actually speak with  
16 certainty.

17 I do believe that Margaret was responsive  
18 to concerns that were raised.

19 MS. BRENNER: Okay.

20 WITNESS BEAN: I think she revised --

21 MS. BRENNER: So --

22 WITNESS BEAN: -- her document because of  
23 that.

24 MS. BRENNER: Did CDFW?

25 WITNESS BEAN: We didn't prepare a

1 document. We supported the work that Margaret  
2 did.

3 MS. BRENNER: Okay. You discussed the  
4 need for a pool in Stanshaw Creek to provide  
5 overwintering habitat for Coho salmon; correct?  
6 And this is, again, to either one of you.  
7 There's a --

8 WITNESS BULL: Oh, that it's important?  
9 Yes.

10 MS. BRENNER: Are you aware of any  
11 evidence that -- when the pool has been impaired  
12 by the Cole's diversion during winter flows?

13 WITNESS BULL: Not during winter flows.

14 MS. BRENNER: Okay. Can we go to CDFW  
15 Exhibit 13, page 4, and this is, I believe, Ms.  
16 Bean's testimony, line 5, start at line 5.

17 (Document displayed on screen)

18 MS. BRENNER: Do you see the quoted  
19 material on that page?

20 WITNESS BEAN: Yes.

21 MS. BRENNER: Does that indicate that the  
22 growth rates for Coho overwintering in the  
23 Stanshaw pool are high, likely leading to  
24 increased survival and numbers of returning  
25 spawners?

1 WITNESS BEAN: No.

2 MS. BRENNER: Do you see the sentence  
3 that says,

4 "The pool at the mouth of Stanshaw currently  
5 provides excellent cold-water refuge, as well  
6 as winter refuge for juvenile Coho?"

7 WITNESS BEAN: Yes.

8 MS. BRENNER: Okay. Was this based on  
9 Coho ecology studies by the Karuk Tribe at this  
10 site?

11 WITNESS BEAN: This is an excerpt of a  
12 proposal that was submitted by Mid Klamath  
13 Watershed Council. I'm not sure where  
14 they -- I'm sure they coordinated with whoever  
15 they needed to coordinate with --

16 MS. BRENNER: Okay.

17 WITNESS BEAN: -- to get that  
18 information.

19 MS. BRENNER: So based on your review of  
20 the application, do you agree that growth rates  
21 of the Coho overwintering in the Stanshaw are  
22 high in the ten years up to 2012?

23 WITNESS BEAN: Based on what?

24 MS. BRENNER: Based on your review of the  
25 application?

1           WITNESS BEAN: Based on my understanding  
2 of the research that's been conducted, I believe  
3 that the growth rates are higher.

4           MS. BRENNER: Okay. Can we hang on  
5 just -- can you go down to line 27? Okay.  
6 Where's page four?

7           Do you see the reference at line 27 that  
8 "A lateral scour pool is formed just upstream of  
9 Stanshaw Creek mouth when Klamath flood flows?"

10          WITNESS BEAN: Yes.

11          MS. BRENNER: Okay. Can you go to the  
12 next page please?

13          That occurs when the Klamath flood flows  
14 are deflected by avulsed alluvium and stream flow  
15 from Stanshaw Creek; is that your understanding?

16          WITNESS BEAN: Yes.

17          MS. BRENNER: And then the pool is  
18 subsequently filled by cold Stanshaw Creek water  
19 when flooding subsides?

20          WITNESS BEAN: Yes.

21          MS. BRENNER: It creates a high-quality  
22 summer and winter rearing habitat for Coho  
23 migrating down the Klamath River?

24          WITNESS BEAN: Yes.

25          MS. BRENNER: Do you have an

1 understanding of how that works? Can you  
2 describe how that works?

3 WITNESS BEAN: In --

4 MS. BRENNER: Let me ask you a different  
5 way. Is that a natural phenomenon?

6 WITNESS BEAN: It's --

7 MS. BRENNER: Is that a natural  
8 occurrence?

9 WITNESS BEAN: It's my understanding that  
10 there's a number of tributaries where this occurs  
11 in the Klamath River Watershed.

12 MS. BRENNER: It's a natural occurrence?

13 WITNESS BEAN: Yes.

14 MS. BRENNER: Okay. And that -- that is  
15 caused by a lateral scouring upstream of the  
16 Stanshaw Creek entry onto the floodplain; is that  
17 your understanding --

18 WITNESS BEAN: That's my understanding.

19 MS. BRENNER: -- of how that occurs?

20 Okay.

21 Do you have an understanding of whether  
22 that particular circumstance may result in  
23 Stanshaw Creek flow away from the natural pond,  
24 that in natural circumstances sometimes the  
25 Stanshaw Creek flow may not all be directed into

1 the pond?

2 WITNESS BEAN: I guess it would depend on  
3 the elevation of the Klamath River.

4 MS. BRENNER: And each year it could be  
5 different?

6 WITNESS BEAN: Correct.

7 MS. BRENNER: Okay. You -- have you  
8 hiked up and down the Stanshaw Creek system?

9 WITNESS BEAN: No.

10 MS. BRENNER: Okay. So, Ms. Bull, you  
11 heard the question, whether the practicality of  
12 the stream flow recommendations was considered by  
13 CDFW. Did you agree that that wasn't a  
14 consideration?

15 WITNESS BULL: Correct.

16 MS. BRENNER: Okay. Are either of you  
17 aware that when the grant proposal was made in  
18 2004-2005 to return Stanshaw back to Stanshaw  
19 instead of going to Irving, that there was at  
20 that time, along Highway 96, fiber optic  
21 construction, fiber optic placement along the  
22 highway?

23 WITNESS BEAN: I wasn't in the -- I  
24 wasn't in the region at that time.

25 MS. BRENNER: Okay.



1           WITNESS BULL:  And I wasn't involved in  
2 the Fisheries Program then.

3           MS. BRENNER:  Okay.  I don't have  
4 anything further.

5           HEARING OFFICER MOORE:  Okay.  Thank you.

6           Next, does National Marine Fishery  
7 Service have any questions for the witnesses?  
8 Thank you.

9           MR. KEIFER:  Yes, just a couple quick  
10 questions.

11                           CROSS-EXAMINATION BY

12           MR. KEIFER:  My first question is, and  
13 this is anybody in the panel who can respond, are  
14 you familiar with both the State listing process  
15 under the California Endangered Species Act, as  
16 well as the Federal listing process under the  
17 Federal Endangered Species Act, just in general?

18           WITNESS BEAN:  In general.

19           MR. KEIFER:  Do you recall what year Coho  
20 were listed by the Federal Government as  
21 threatened?

22           WITNESS BEAN:  1996.

23           MR. KEIFER:  1996?  And what year was the  
24 State listing?

25           WITNESS BEAN:  2005.

1           MR. KEIFER:   When National Marine Fishery  
2 Service receives a petition to list and it  
3 becomes generally publicly known that there is a  
4 pending petition to list, does that elicit any  
5 response from CDFW in general? Do you start to  
6 look at issues with that particular animal more  
7 closely in the interim?

8           WITNESS BEAN:   I don't know the answer to  
9 that.

10          MR. KEIFER:   Okay. But you're aware that  
11 Coho were listed as threatened by the Federal  
12 Government in the mid '90s?

13          WITNESS BEAN:   Yes.

14          MR. KEIFER:   Yes. That's all I have.  
15 Thank you.

16          HEARING OFFICER MOORE:   Thank you.

17          And next, Karuk Tribe, any questions for  
18 the Fish and Wildlife witnesses? No?

19          Old Man River Trust? No?

20          Klamath Riverkeeper? CSPA? PCFFA? No?

21 Okay.

22          And, Counsel, do you have any redirect  
23 testimony?

24          MR. PUCCINI:   Just one question.

25          HEARING OFFICER MOORE:   Okay. Go ahead.

1 REDIRECT EXAMINATION BY

2 MR. PUCCINI: Earlier Ms. Brenner, I  
3 think, asked you, Caitlin, regarding the CEF  
4 Grant and the six-inch pipe and what that would  
5 do to the ability for the Coles to divert water  
6 for nonconsumptive hydro use. I think she  
7 phrased the question that no water would be  
8 allowed for hydro or to be used for hydro.

9 Was your testimony that they would in  
10 some way forfeit whatever pre-'14 right they  
11 might have had -- they might have to put that  
12 water to hydro use?

13 WITNESS BEAN: No.

14 MR. PUCCINI: You were here yesterday;  
15 correct?

16 WITNESS BEAN: Yes.

17 MR. PUCCINI: Do you remember seeing a  
18 video that Ken Petruzzelli presented? I believe  
19 it's WR-76. On Monday, excuse me. Do you recall  
20 seeing that video?

21 WITNESS BEAN: No.

22 MR. PUCCINI: Okay. We'll drop that.  
23 That's all I have. Thank you.

24 HEARING OFFICER MOORE: Thank you.

25 And any recross questions based on that

1 redirect?

2 MR. PETRUZZELLI: No recross questions.

3 And since the Hearing Team always wants to know  
4 what exhibit numbers go with what, I'm pretty  
5 sure the video was -- is actually WR-76, but  
6 that, I believe, was the Windows Media File or  
7 something that the computer wouldn't play. So I  
8 think it's actually the YouTube link from --  
9 that's in WR-75 that would play on our system.

10 HEARING OFFICER MOORE: Okay.

11 MR. PETRUZZELLI: So --

12 HEARING OFFICER MOORE: Well, we do want  
13 an orderly proceeding.

14 MR. PETRUZZELLI: Okay.

15 HEARING OFFICER MOORE: Thank you.

16 MS. WEAVER: Thank you, Mr. Petruzzelli.

17 HEARING OFFICER MOORE: Appreciate that.  
18 Okay.

19 Any recross on that question?

20 MS. BRENNER: No.

21 HEARING OFFICER MOORE: Okay.

22 MS. BRENNER: No recross.

23 HEARING OFFICER MOORE: Please approach.

24 MS. BRENNER: No. I know the next move  
25 is to ask for submittal into evidence. I'm

1 wondering what we're doing with Mr. Holmes's  
2 testimony, since he wasn't available for cross-  
3 examination.

4 HEARING OFFICER MOORE: Yeah. We're  
5 going to ask for exhibits to go in and ask for  
6 any objections. And if you have any objections  
7 at that time, we have options, so --

8 MS. BRENNER: All right.

9 HEARING OFFICER MOORE: -- you know, we  
10 could hold them -- hold those exhibits in  
11 abeyance of some sort. Yeah. So, I mean, we'll  
12 come to that --

13 MS. BRENNER: Okay.

14 HEARING OFFICER MOORE: -- very shortly.  
15 Okay. In fact, well, yeah, here. You're  
16 anticipating my next move, Ms. Brenner. This is  
17 on the next page. Okay. Very good.

18 So at this time we would ask the  
19 Department of Fish and Wildlife to offer exhibits  
20 into evidence.

21 MR. PUCCINI: Yes, we would like to do  
22 so.

23 HEARING OFFICER MOORE: Okay. And any  
24 objections?

25 MS. BRENNER: Yes. I object to Mr.

1 Holmes's testimony to be submitted into evidence  
2 based on the fact, he's not available for cross-  
3 examination. It's prejudicial to the Coles.

4 HEARING OFFICER MOORE: Okay. So, oh,  
5 yeah, that's true. There are Staff questions.  
6 Sorry.

7 MS. WEAVER: We should count that  
8 objection now.

9 HEARING OFFICER MOORE: Okay. We will  
10 respond to that.

11 Does Staff have questions for the panel?

12 MS. WEAVER: So I just have a couple of  
13 quick questions.

14 EXAMINATION BY

15 MS. WEAVER: Ms. Bull, I believe it was  
16 your testimony that steelhead are not listed  
17 under the State or Federal Endangered Species  
18 Act; is that correct?

19 WITNESS BULL: Correct.

20 MS. WEAVER: What --

21 WITNESS BULL: Correct. Sorry.

22 MS. WEAVER: What steelhead population  
23 were you describing when you made that statement?

24 WITNESS BULL: The Klamath population.

25 MS. WEAVER: Thank you. And then my

1 other question is regarding an exhibit, I believe  
2 CDFW-5. Ms. Bean answered some questions about  
3 it.

4 Could we pull that up? It was the July  
5 26th -- 200.

6 WITNESS BULL: CDFW-6.

7 MS. WEAVER: CDFW-6. Ok

8 MR. PUCCINI: The question was directed  
9 to Ms. Bull.

10 MS. WEAVER: Oh. Okay. My apologies.

11 (Document displayed on screen)

12 MS. WEAVER: So if we could scroll down  
13 and highlight it?

14 So, Ms. Bull, just to be unmistakably  
15 clear, this looks like a typographical error.  
16 What year does this refer to?

17 WITNESS BULL: According to the header,  
18 it's 2001.

19 MS. WEAVER: 2001?

20 WITNESS BULL: Wait. I -- actually, it's  
21 2000. Sorry.

22 MS. WEAVER: 2000? Okay. Thank you.

23 EXAMINATION BY

24 MS. IRBY: This question is for Ms. Bull.  
25 I apologize if you answered this already.

1           What would you consider to be the limit  
2 of anadromy on Stanshaw?

3           WITNESS BULL: I have not personally  
4 evaluated that, so I can't answer that. But it  
5 is, according to other reports, above the Highway  
6 96 culvert crossing --

7           MS. IRBY: Okay.

8           WITNESS BULL: -- possibly.

9           MS. IRBY: Thank you.

10          Ms. Bean, in your testimony, your written  
11 testimony, you referred to sediment bleeds from  
12 the ditch on the -- leading to Marble Mountain  
13 Ranch. Could you explain the nature of a  
14 sediment bleed and how that might affect  
15 salmonids?

16          WITNESS BEAN: That was a quote from a  
17 proposal that I reviewed.

18          MS. IRBY: Okay.

19          WITNESS BEAN: What I understood that to  
20 mean was that the ditch had failed and sediment  
21 had been transported into Stanshaw Creek.

22          MS. IRBY: So it would be an obvious  
23 physical change to the ditch itself if there was  
24 a bleed?

25          WITNESS BEAN: Obvious? It could occur



1 over -- a bleed could occur over time, so it  
2 could be a marginal amount of sediment being  
3 delivered --

4 MS. IRBY: Okay.

5 WITNESS BEAN: -- that was maybe  
6 noticeable, not from day to day but over time, or  
7 it could be something more dramatic. I'm not --  
8 I'm unaware of what the author --

9 MS. IRBY: Okay.

10 WITNESS BEAN: -- was describing --

11 MS. IRBY: Okay. Thank you.

12 WITNESS BEAN: -- other than sediment  
13 delivery.

14 MS. IRBY: Okay. One more question for  
15 Ms. Bull.

16 In your written testimony, you write that  
17 CDFW recommended that 2.5 CFS would allow passage  
18 into Stanshaw Creek from the Klamath River; is  
19 that correct?

20 WITNESS BULL: Yes.

21 MS. IRBY: Do you believe that that would  
22 allow passage during most years, given the  
23 dynamic feature of the system?

24 WITNESS BULL: According to our district  
25 Fisheries biologist at the time, it does. I have

1 not personally been down there.

2 MS. IRBY: Okay.

3 HEARING OFFICER MOORE: Thanks. Any more  
4 questions from Staff?

5 So I'd like Ms. Weaver to explain on the  
6 exhibits related to Mr. Holmes, which would be  
7 entered into evidence or take the objections  
8 under submission.

9 MS. WEAVER: So having reviewed his  
10 testimony, I mean, he's not here to be cross-  
11 examined, he's not here to -- he hasn't taken the  
12 oath, we would treat this as -- for the written  
13 testimony, we would treat it as hearsay under our  
14 Regulation section 648 of Title 23 of the  
15 California Code of Regs, subdivision (b).

16 We pick up Government Code section 11513  
17 as part of our part of our procedural rules.  
18 Under that section, subdivision (d),

19 "Hearsay evidence is admissible for the  
20 purpose of supplementing or explaining other  
21 evidence over timely objection. It shall not  
22 be sufficient in itself to support a  
23 finding," and we note Ms. Brenner's timely  
24 objection, "shall not be sufficient to  
25 support a finding unless it would be

1           admissible over objection in civil actions."

2           So I think that we're -- within those  
3 parameters, I think we're fine here.

4           HEARING OFFICER MOORE: Did you want to  
5 enumerate which exhibits we're talking about?  
6 Are they all treated the same or --

7           MS. WEAVER: So Mr. Holmes's testimony is  
8 CDFW-24? CDFW-25 is his curriculum vitae. And  
9 then in his written testimony, he describes CDFW-  
10 12, CDFW-26 and CDFW-27. These are all, or at  
11 least they appear to me to be, public documents,  
12 letters, Agency reports, things like that. And I  
13 haven't reviewed whether the other CDFW witnesses  
14 also speak to these items in their own written  
15 testimony or would otherwise be able to authentic  
16 them.

17           MR. PUCCINI: Can I add something? CDFW-  
18 12 is part of Jennifer Bull's testimony.

19           MS. WEAVER: Okay. So it sounds like  
20 CDFW-12 is fully spoken for.

21           MR. PUCCINI: So that would just leave  
22 those other two exhibits.

23           MS. WEAVER: 26 and 27.

24           MR. PUCCINI: Correct.

25           MS. WEAVER: So --

1           WITNESS BEAN: I think 26 was submitted  
2 in the NMFS's submittals.

3           MS. WEAVER: Okay. That was also a NMFS  
4 exhibit?

5           WITNESS BEAN: I think so. Yeah. Yes.

6           MS. WEAVER: Okay. I saw Ms. Tauzer say  
7 yes.

8           So I think that, you know, that this is a  
9 weight of the evidence issue. And, you know, I  
10 think we can note the timely objection and move  
11 on here.

12          HEARING OFFICER MOORE: Okay.

13          MR. PUCCINI: May I add something?

14          HEARING OFFICER MOORE: Yes.

15          MR. PUCCINI: Just for the record, so  
16 when the -- when we filed the Notice of Intent  
17 and identified Robert Holmes as a witness the  
18 hearing date was not this hearing date. And so  
19 when the hearing date got changed, I believe at  
20 the Coles' request, he is already scheduled for  
21 important flow studies in Ventura. And I weighed  
22 on that because it was my understanding that in  
23 almost every other case that I was made familiar  
24 with the Board has been able to accommodate  
25 witnesses remotely. So this actually seemed to

1 me to be a bit of a surprise, or perhaps an  
2 aberration from -- and I understand the  
3 difficulties, of course. You know, you could do  
4 -- you can only do what you can do. But the  
5 circumstances weren't, obviously, entirely within  
6 our control in this situation.

7 MS. WEAVER: Would you be able to produce  
8 him by Friday? I mean, I don't know when he's  
9 finishing his work and heading back up.

10 MR. PUCCINI: That won't -- yeah, he will  
11 be actually, probably, traveling back up on  
12 Friday. And so it's -- and it's about a six-hour  
13 trip, so I don't think that is actually feasible.

14 MS. WEAVER: Okay.

15 MR. PUCCINI: But thank you for the  
16 offer.

17 HEARING OFFICER MOORE: Okay. But as you  
18 said, these can be entered into evidence with the  
19 objection noted?

20 MS. WEAVER: Right, and these parameters  
21 on the weight of the evidence.

22 HEARING OFFICER MOORE: Okay. Thank you  
23 for that clarification.

24 (All CDFW Exhibits are received.)

25 HEARING OFFICER MOORE: Now we have 14

1 minutes left in the day. And here's where, you  
2 know, my sense is that the Karuk Tribe, who's  
3 next in the queue, would take longer than that.

4 But I was going to ask the next party,  
5 which is Old Man River Trust, if that's enough  
6 time for your opening -- right, you did your  
7 opening statement, so your direct testimony? If  
8 you want more time than that, that's fine, but I  
9 wanted to offer you the option of using that  
10 time.

11 MR. FISHER: (Off mike.) I don't know.  
12 It seems like (indiscernible), but I can try.

13 HEARING OFFICER MOORE: It's your choice.

14 MR. FISHER: Well --

15 HEARING OFFICER MOORE: Okay. So we're  
16 going to switch the order.

17 MR. FISHER: No. No. I -- is it --

18 HEARING OFFICER MOORE: Oh.

19 MR. FISHER: It's like this much time  
20 or -- and that's it?

21 HEARING OFFICER MOORE: Yeah.

22 MR. FISHER: Then, no.

23 HEARING OFFICER MOORE: For your direct  
24 testimony. It's your choice. If you don't want  
25 to, you don't have to.

1 MR. FISHER: Okay. Yeah, we'll wait.

2 HEARING OFFICER MOORE: You're going to  
3 wait? Okay.

4 Then -- so back to the Karuk Tribe. I  
5 just want to give you a chance to state your  
6 preference. If you want to begin now we can go  
7 until 4:30, or we can break for tomorrow at 9:30.

8 MR. HUNT: I think it's unlikely that I  
9 would be able to present either Craig Tucker or  
10 Tozz Soto in the time we have.

11 HEARING OFFICER MOORE: Okay. Okay. I  
12 can't hear you, really.

13 (Pause in proceedings)

14 HEARING OFFICER MOORE: Okay. And we're  
15 planning to meet tomorrow, Thursday, as noticed  
16 publicly. So we'll be returning here at 9:30.  
17 As we do that, I would appreciate if folks could  
18 think about the rebuttal part of this hearing and  
19 how much time you think you'll require, just so  
20 that we can do our best to plan the proceeding in  
21 an orderly manner. So I just appreciate that we  
22 can informally confer tomorrow morning before we  
23 begin the proceeding.

24 And with that, any other thoughts, input  
25 from Staff?

1 MS. WEAVER: No.

2 HEARING OFFICER MOORE: Okay. I'm going  
3 to recess the proceeding, and we will reconvene  
4 tomorrow, Thursday, November 16th at 9:30 a.m.

5 Thank you.

6 (Whereupon, the Public Hearing was recessed until  
7 Thursday, November 16, 2017 at 9:30 a.m.)

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**REPORTER'S CERTIFICATE**

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 30th day of January, 2018.



---

PETER PETTY  
CER\*\*D-493  
Notary Public

CERTIFICATE OF TRANSCRIBER

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

I certify that the foregoing is a correct transcript, to the best of my ability, from the electronic sound recording of the proceedings in the above-entitled matter.



MARTHA L. NELSON, CERT\*\*367

January 31, 2018