1	BEFORE THE			
2	CALIFORNIA STATE WATER RESOURCES CONTROL BOARD			
3				
4	CALIFORNIA WATERFIX WATER) RIGHT CHANGE PETITION)			
5	HEARING)			
6				
7	JOE SERNA, JR. BUILDING			
8	CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY			
9	SIERRA MEETING ROOM			
10	1001 I STREET			
11	SECOND FLOOR			
12	SACRAMENTO CALIFORNIA			
13	PART 2 SURREBUTTAL			
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1	APPEARANCES:
2	CALIFORNIA WATER RESOURCES BOARD
3	Division of Water Rights
4	Board Members Present
5 6	Tam Doduc, Co-Hearing Officer: Felicia Marcus, Chair and Co-Hearing Officer: Dorene D'Adamo, Board Member
7	Staff Present
8 9	Andrew Derringer, Senior Staff Attorney Conny Mitterhofer, Senior Water Resources Control Engr. Jean McCue, Senior Water Resources Control Engr.
LO	
L1	PETITIONERS:
L2	For California Department of Water Resources
L3	Tripp Mizell, Senior Attorney
L4 L5	Duane Morris, LLP By: Thomas Martin Berliner, Attorney at Law By: Jolie-Anne Ansley, Attorney at Law
L6 L7 L8	U.S. Department of the Interior, Bureau Reclamation, and Fish and Wildlife Service Amy Aufdemberge, Assistant Regional Solicitor
L9	PROTESTANTS AND OTHER INTERESTED PARTIES:
20	State Water Contractors
21	Stefanie Morris, Attorney Adam Kear, Attorney Becky Sheehan, Attorney

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24

25

(continued)

1	APPEARANCES (continued)			
2	PROTESTANTS AND OTHER INTERESTED PARTIES:			
3	Central Delta Water Agency, South Delta Water Agency (Delta Agencies)			
4	Dean Ruiz			
5	San Joaquin County			
6	Thomas Keeling			
7	Local Agencies of the North Delta			
8	Osha Meserve			
9	California Sportfishing Protection Alliance, California			
10	Water Impact Network, AquAlliance Michael Jackson			
11				
12	City of Antioch Matthew Emrick			
13				
14	California Water Research Deirdre Des Jardins			
15				
16	Clifton Court, LLP			
17	Suzanne Womack			
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1 Monday, October 1, 2018 9:30 a.m.

- 2 PROCEEDINGS
- 3 ---000---
- 4 CO-HEARING OFFICER DODUC: All right. Good
- 5 morning, everyone. Welcome back.
- 6 I'm Tam Doduc. To my right is Co-Hearing
- 7 Officer and Board Chair Felicia Marcus. We will be
- 8 joined shortly by Board Member DeeDee D'Adamo. To my
- 9 left will be Andrew Deeringer, and right now are
- 10 Conny Mitterhofer and Jean McCue.
- 11 Welcome back to this Water Rights Change
- 12 Petition Hearing for the California Waterfix project.
- 13 We are in a new room -- well, not new, but not one we
- 14 frequently use. So please take a moment and identify
- 15 the exit closest to you. And the rest of you know the
- 16 rest of that spiel, so I won't continue, except for the
- 17 most important parts, since we've been away from each
- 18 other for a couple days.
- 19 Please take a moment and check to make sure
- 20 that your noise-making devices are on silent, vibrate,
- 21 "do not disturb."
- 22 All right. We have -- thank you, Ms. Womack
- 23 and Mr. Emrick, for being ready. We have the
- 24 completion of your cross-examination of DWR's
- 25 witnesses.

- 1 Then we will turn, Mr. Ruiz, to Mr. Burke.
- 2 And at this time, I only have about 80 minutes
- 3 or so of cross requested for Mr. Burke: State Water
- 4 Contractors, DWR for 60; LAND for 10; and CSPA for 10.
- 5 Are there any other requests?
- 6 (No response)
- 7 CO-HEARING OFFICER DODUC: All right. With
- 8 that, then, I expect we at least will complete this
- 9 portion today. We still have a pending request from
- 10 Ms. Morris. Is that request still valid?
- 11 I'm seeing a nod from Ms. Morris. We will,
- 12 either during the morning break or our lunch break
- 13 today, discuss that.
- Ms. Des Jardins.
- MS. DES JARDINS: Yes. I just -- given that
- 16 there is another phase of this surrebuttal part of the
- 17 hearing --
- 18 CO-HEARING OFFICER DODUC: There might be.
- 19 There is a request. And I've also noted your request
- 20 as well, at the same time that Ms. Morris made her
- 21 request, regarding your subpoena of a DWR witness.
- 22 MS. DES JARDINS: There was one more. Just
- 23 that there -- the Draft Supplemental EIR is ruled
- 24 beyond the scope of surrebuttal based on that there
- 25 wasn't testimony on it in Part -- in the rebuttal phase

1 of the hearing. And for the most part, that was true.

- 2 But there was one appendix. There was the flow test.
- 3 CO-HEARING OFFICER DODUC: This was the
- 4 floating -- the floating issue.
- 5 MS. DES JARDINS: Yeah. So I wanted to renew
- 6 my request for -- to allow some rebuttal on that, since
- 7 it was ruled beyond the scope of surrebuttal.
- 8 CO-HEARING OFFICER DODUC: And on what new
- 9 grounds to you make that request for reconsideration?
- 10 MS. DES JARDINS: Just that there should --
- 11 rebuttal to that testimony should be allowed in some
- 12 part of the hearing.
- 13 CO-HEARING OFFICER DODUC: Because? The
- 14 rationale? The new rationale that you are providing?
- 15 Because we did rule on it previously.
- 16 MS. DES JARDINS: It's part of due process
- 17 under State and Federal Constitution that all parties
- 18 have a right to examine and rebut evidence. It's been
- 19 settled law for a hundred years. I can provide a case
- 20 citation.
- 21 CO-HEARING OFFICER DODUC: That rationale, I
- 22 think, was provided before. But thank you.
- 23 Are there any other outstanding motions that I
- 24 have forgotten to mention?
- 25 Motions, requests, objections?

1 MS. MESERVE: Good morning. Anything, right?

- It's not really a motion. I guess I just
- 3 wanted to add on a little bit to what Ms. Des Jardins
- 4 said in a slightly different note is that we still do
- 5 have the environmental review prepared by the Bureau
- 6 and DWR, which is out and that I think the Board's
- 7 rulings have indicated would eventually need to come
- 8 within the record and I think also indicated that, if
- 9 and when that happened, we would revisit whether
- 10 additional testimony was necessary.
- 11 CO-HEARING OFFICER DODUC: That all is true.
- 12 MS. MESERVE: Since we're getting toward the
- 13 -- what may be the end of Part 2 Surrebuttal, I guess I
- 14 just want to make a place saver that I definitely do
- 15 have and will have arguments about that with respect to
- 16 how that relates to the evidentiary --
- 17 CO-HEARING OFFICER DODUC: I expect others
- 18 will as well. And we have stated in writing in, as a
- 19 matter of fact, that, when that final document is
- 20 submitted to us, we will then ask for input from the
- 21 parties and consider what additional steps are
- 22 necessary.
- 23 MS. MESERVE: Yeah. Because, I mean, just to
- 24 clarify, the reason why I'm brining it up is there's
- 25 kind of two tracks going on here. One, the Water Board

- 1 is the responsible agency which can just receive
- 2 documents, and that's part of it's responsible agency
- 3 records.
- 4 With respect to evidentiary proceedings and
- 5 the water rights, it's a little different. So I just
- 6 want to make sure --
- 7 CO-HEARING OFFICER DODUC: I understand,
- 8 Ms. Meserve.
- 9 MS. MESERVE: Thank you.
- 10 CO-HEARING OFFICER DODUC: I have a note that
- 11 the Webcast may be down. So all the lucky people who
- 12 are watching do not get to see this.
- 13 All right. Mr. Mizell.
- MR. MIZELL: Yes, Tripp Mizell, DWR. At this
- 15 time, the Department would withdraw the request for
- 16 further witnesses based upon the trust issue that we
- 17 discussed on Friday.
- 18 CO-HEARING OFFICER DODUC: I'm sorry? So
- 19 you're withdrawing your request.
- 20 Does the State Water Contractors' request
- 21 still stand?
- MS. MORRIS: No, we're withdrawing.
- 23 CO-HEARING OFFICER DODUC: All right.
- 24 All right. Mr. Emrick, I guess we are now
- 25 finally to you.

- 1 MR. EMRICK: Yes. For this morning, I think
- 2 because it's going to be a little bit more technical
- 3 questions, Ms. Des Jardins is going to help -- or is
- 4 going to assist Ms. Womack. I'll be here to provide
- 5 assistance with respect to clarification or objections.
- 6 CO-HEARING OFFICER DODUC: All right. I think
- 7 Mr. Hunt, who is assisting us today, was quite generous
- 8 in setting the timer.
- 9 Last night, I believe there was request for --
- 10 I think it was 30 minutes from you, Mr. Emrick, and
- 11 then five questions from Ms. Womack. Has that changed
- 12 overnight -- I mean, over the weekend?
- MS. WOMACK: Well, no, no. Mine are kind of
- 14 rounds of -- there's a few things that lead up to the
- 15 questions. So there actually might be four questions,
- 16 but there are a few parts to get to them, and it
- 17 depends on the cross. So mine would probably be no
- 18 more than a half hour.
- 19 CO-HEARING OFFICER DODUC: And Mr. Emrick?
- 20 MR. EMRICK: Yeah, I think probably no more
- 21 than 45 minutes.
- 22 CO-HEARING OFFICER DODUC: In total. All
- 23 right. Let's reset the clock to 45 minutes.
- And looks like the Webcast is working again.
- 25 So welcome to all of the those who are watching. Sorry

- 1 you don't get the morning off. All right.
- 2 With that, we will turn to -- is it
- 3 Ms. Womack, or Ms. Des Jardins?
- 4 MS. WOMACK: I'll go ahead and start out.
- JOHN BEDNARSKI and CHANDRA CHILMAKURI,
- 6 called as Part 2 Surrebuttal witnesses
- 7 by Petitioner California Department of
- 8 Water Resources, having been previously
- 9 duly sworn, were examined and testified
- 10 further as hereinafter set forth:
- 11 CROSS-EXAMINATION BY MS. WOMACK and MS. DES JARDINS
- 12 MS. WOMACK: Let's see. I need to start here.
- 13 So could I have -- well, this is -- first question is
- 14 for Mr. Bednarski.
- 15 And in your testimony on Page 6 at Line 15, it
- 16 states that DWR may assist with securing permits -- do
- 17 we need to get that on the screen -- for alternative
- 18 water supplies? Is that something you --
- 19 WITNESS BEDNARSKI: That's correct.
- 20 MS. WOMACK: That's correct? Thank you.
- 21 WITNESS BEDNARSKI: That's consistent with my
- 22 previous testimony in Part 1.
- MS. WOMACK: Thank you.
- So, Mr. Hunt, could we get up CCLP-70, please.
- MS. WOMACK: This is a -- I guess an eWRIMS

1 map; these things -- I can't imagine -- that shows two

- 2 of CCLP diversions, licensed diversions. One is right
- 3 next to the intake of the Clifton Court Forebay, and
- 4 then there are -- right there, you can see where one
- 5 set of control gates are. And the other is down here
- 6 in the Delta-Mendota intake that you propose to change
- 7 the name to the Jones Channel. So those two are there.
- 8 Are you aware that a change petition would be
- 9 needed to change either of our points of diversion?
- 10 WITNESS BEDNARSKI: I'm assuming there would
- 11 be. I believe we spoke about that in Part 1 in my
- 12 original testimony. We talked about potentially having
- 13 to move diversions near the intakes. So I think it
- 14 would be the same, same process.
- MS. WOMACK: A change petition. Okay. And
- 16 that would be -- you say DWR may assist with that?
- 17 WITNESS BEDNARSKI: I believe we've written
- 18 the wording flexible so DWR could take the lead if
- 19 necessary. You know, we're flexible on our role on
- 20 that.
- 21 MS. WOMACK: Okay. All right. Well, let's
- 22 move on.
- 23 So let's see. This kind of goes between
- 24 Mr. Chilmakuri -- Dr. Chilmakuri and -- is it doctor or
- 25 mister? Doctor? Sorry about that -- and

- 1 Mr. Bednarski.
- 2 So I just -- I will refer to this map again
- 3 because I think it really does a nice job of showing
- 4 where Clifton Court is -- where our property is, where
- 5 two of our diversion points are, where Old River is,
- 6 and Western Canal, all the canals that are kind of
- 7 affected.
- 8 So on -- let's see. Mr. Chilmakuri, on
- 9 DWR-1304, Mr. Hunt, 5-6 on PDF 62 of the Conceptual
- 10 Engineering Report -- I will -- so DWR, if we could put
- 11 up DWR-1304, Chapter 5, 5-6, PDF 62. And on Section --
- 12 let's see. Okay. If we scroll down to 5.1.6.3 --
- 13 that's perfect.
- 14 Does it not state that the control gates will
- 15 control flow out of the Byron Tract Forebay, the
- 16 Clifton Court Forebay, and the Old River to meet target
- 17 delivery at Jones and Banks? And let's see --
- 18 MS. DES JARDINS: At Jones and Banks Pumping
- 19 Plants.
- 20 MS. WOMACK: Pumping plants, I'm sorry.
- 21 CO-HEARING OFFICER DODUC: So that would be
- 22 the first sentence of the third paragraph, Ms. Womack?
- MS. WOMACK: I believe so.
- 24 CO-HEARING OFFICER DODUC: I'm sorry, the
- 25 second sentence.

1 MS. WOMACK: Yeah, it's kind of stated a few

- 2 different ways in here.
- 3 MS. DES JARDINS: Mr. Bednarski?
- 4 WITNESS BEDNARSKI: Yes, that's what the text
- 5 says.
- 6 MS. WOMACK: Okay.
- 7 MS. DES JARDINS: And -- and so the goal here
- 8 is to control it to meet target deliveries; is that
- 9 correct?
- 10 WITNESS BEDNARSKI: To control what?
- 11 MS. DES JARDINS: It says to -- to -- the --
- MS. WOMACK: Control the flow out of --
- 13 MS. DES JARDINS: -- to control flow out of
- 14 Byron Tract Forebay, Clifton Court Forebay, and Old
- 15 River, the goal in controlling those flows is to meet
- 16 target delivery?
- 17 WITNESS BEDNARSKI: That's correct, target
- 18 pumping deliveries, exports.
- MS. DES JARDINS: Target export deliveries?
- 20 WITNESS BEDNARSKI: Yes.
- MS. WOMACK: These are for export. Okay.
- 22 Does it not state that the control flow system
- 23 will be such that it maximizes diversion opportunities
- 24 from the North and South Delta intakes?
- 25 CO-HEARING OFFICER DODUC: That's what it

- 1 says.
- WITNESS BEDNARSKI: That's what it says, yes.
- 3 MS. WOMACK: And -- okay. So let's go to the
- 4 Design, Water Surface Elevations on Page 63. I believe
- 5 it's the next page of the CER. And if we could just
- 6 start at the top.
- 7 Doesn't the design -- doesn't it say at the
- 8 top that the -- state, at top of these, are only
- 9 recommending these flows, at the very top.
- MS. DES JARDINS: Elevations.
- 11 MS. WOMACK: Water level elevations?
- 12 Mr. Bednarski?
- 13 WITNESS BEDNARSKI: Yes, that's what it
- 14 states.
- MS. WOMACK: And at the bottom in the
- 16 footnote, doesn't it say, Mr. Bednarski, that the WSE
- 17 for a potential dual-source operational scenario will
- 18 be refined during later design phase? And that would
- 19 be -- perhaps we could go up a little. Or can you see
- 20 that?
- 21 WITNESS BEDNARSKI: I can see that, yes.
- 22 That's what it says.
- MS. DES JARDINS: So, Mr. Bednarski, the
- 24 design water surface elevations have not yet been
- 25 determined; would that be correct?

1 WITNESS BEDNARSKI: The final water surface

- 2 elevations have not been determined; that's correct.
- MS. DES JARDINS: Thank you.
- 4 CO-HEARING OFFICER DODUC: If everyone could
- 5 please move the microphone closer. The court reporter
- 6 is having a hard time hearing you.
- 7 MS. DES JARDINS: Sorry.
- 8 Mr. Bednarski, in forming your opinion about
- 9 whether the dual operation of the control gates would
- 10 affect Clifton Court's Forebay, did you take into
- 11 account the specification of CCLP's pump?
- 12 WITNESS BEDNARSKI: We don't have any
- 13 information on their pump. No, we did not.
- 14 MS. DES JARDINS: Are you aware that CCLP has
- 15 wanted to replace that pump with -- okay. Never mind.
- MS. WOMACK: Okay. Let's move on to
- 17 throttling at Jones control structure.
- 18 CO-HEARING OFFICER DODUC: So that question
- 19 was withdrawn?
- MS. WOMACK. Yes, yes.
- 21 CO-HEARING OFFICER DODUC: I think there was
- 22 an objection pending about facts not in evidence. So
- 23 you're withdrawing it, and moving on.
- MS. WOMACK: Thank you. I'm sorry.
- 25 Okay. I want to move on to throttling and --

- 1 throttling -- I quess it's all the control structures.
- 2 So, sorry, Mr. Hunt. We're moving -- need to
- 3 move -- oh, it's Page 62. Go back to Section 5.1.6.3,
- 4 on Page 62.
- 5 So, Mr. Bednarski, doesn't it state that the
- 6 control structures will need to be capable of
- 7 throttling flow from all three sources: the Byron Tract
- 8 Forebay, the Clifton Court Forebay, and Old River?
- 9 WITNESS BEDNARSKI: That's what the text says,
- 10 yes.
- 11 MS. WOMACK: What does "throttling" mean?
- 12 WITNESS BEDNARSKI: It typically means
- 13 restricting the flow to break the hydraulic grade so
- 14 that you can control the flow to reach certain --
- 15 MS. WOMACK: Would reducing and restricting be
- 16 same thing?
- 17 WITNESS BEDNARSKI: I'm sorry. I don't
- 18 understand the question.
- 19 MS. WOMACK: Is the flow going to be reduced?
- 20 WITNESS BEDNARSKI: I believe I explained last
- 21 week that we most probably in this channel will have
- 22 the gates open to minimize the restriction at this
- 23 point. And we will be using the gate in the
- 24 interconnecting channel to throttle the flow coming
- 25 from the North Delta Diversions to match the water

- 1 surface elevation that's in the Jones intake channel,
- 2 that that, with our conceptual design, is the scheme
- 3 that we're planning to use now.
- 4 MS. WOMACK: When during -- you also -- well,
- 5 when will the control structure be closed on the -- on
- 6 the Jones -- or, well, on the DMC intake where my
- 7 diversion is, when will that be closed?
- 8 WITNESS BEDNARSKI: Right. Under the scheme
- 9 that we have now, the times that it will be closed, as
- 10 I explained Friday, would be when we are taking North
- 11 Delta Diversions and we are not diverting from the
- 12 south, we would have that gate closed, fully closed.
- 13 MS. DES JARDINS: Mr. Bednarski, does it not
- 14 state that the open channel that feeds the Jones
- 15 Pumping Plant downstream of the Tracy Fish Facility
- 16 must maintain a lower water surface elevation from all
- 17 three sources to maintain flow control?
- 18 WITNESS BEDNARSKI: Yes, but I think the way
- 19 that sentence was meant to be implied or understood is
- 20 that it would have a lower water surface elevation than
- 21 at the control structure with the North Delta
- 22 deliveries because that's where we're going to do our
- 23 main throttling. So we need to have the water surface
- 24 in that -- in the Delta-Mendota/Jones Intake Channel
- 25 lower than in the interconnecting channel so we can

- 1 have a lower hydraulic gradient there and actually
- 2 break head into that channel from the higher hydraulic
- 3 gradient.
- 4 MS. WOMACK: So what you're saying -- well,
- 5 what you're saying then is that, in Jones, it's going
- 6 to be lower where my -- where my diversion is?
- 7 WITNESS BEDNARSKI: It will not change from
- 8 where it is now. That's what I was explaining on
- 9 Friday, that that will continue to ride on the tidal
- 10 influence as it does now when that gate is open.
- 11 The water surface elevation, as it comes out
- 12 of the tunnels and before it flows through that control
- 13 structure that allows the water to go into the Jones
- 14 intake channel, that will be at a higher water surface
- 15 elevation than in the Jones intake channel. So we'll
- 16 break head there and allow that water to flow into that
- 17 channel and then into the Bank -- into the Jones
- 18 Pumping Plant.
- 19 MS. DES JARDINS: Mr. Bednarski, can you
- 20 explain the discrepancy between your testimony just now
- 21 and the Conceptual Engineering Report which states the
- 22 open channels at the Banks and Jones Pumping Plant
- 23 downstream of the Skinner Fish Facility and downstream
- 24 of the Tracy Fish Facility must maintain a lower WSE
- 25 from all three sources to maintain flow control of all

- 1 the throttling gates at each source?
- 2 WITNESS BEDNARSKI: I really think we're kind
- 3 of splitting hairs here in that we have to recognize
- 4 that we have a conceptual design that's been done. And
- 5 I've been trying to do my best to explain how we wrote
- 6 this some months ago and the way that I understand that
- 7 the system would be designed and operated. And those
- 8 final refinements will be made in preliminary design.
- 9 And we've offered to share that information as
- 10 we're designing that, you know, to make sure that there
- 11 are no impacts on Clifton Court LP's pumping
- 12 facilities.
- 13 MS. WOMACK: But how will the Board be able to
- 14 make a decision if they don't have proper information?
- 15 WITNESS BEDNARSKI: Well, I believe that, you
- 16 know, through my testimony, we've presented sort of an
- 17 overarching set of commitments to not have a negative
- 18 impact on the CCLP diversions. And that would be the
- 19 vehicle that we would use to accomplish that, either
- 20 through the design of this facility or potentially
- 21 moving the diversion.
- Those were all listed in my mitigation
- 23 measures. And we would follow that path as we're going
- 24 through the process.
- MS. DES JARDINS: But Mr. Bednarski, as of

- 1 this point, there's no information about the specific
- 2 design or the specific mitigation measure.
- 3 CO-HEARING OFFICER DODUC: Mr. Mizell.
- 4 MR. MIZELL: Misstates the record.
- 5 CO-HEARING OFFICER DODUC: Sustained.
- 6 MS. DES JARDINS: Mr. Bednarski, this is all a
- 7 conceptual design, and you testi- -- you -- that it
- 8 could change?
- 9 CO-HEARING OFFICER DODUC: Asked and answered.
- 10 MS. WOMACK: Okay. Have you done analysis to
- 11 show how the blocked control gates that will reduce the
- 12 channel WSE will raise Old River water levels? Have
- 13 there been studies, impact studies?
- 14 CO-HEARING OFFICER DODUC: I'm not sure I
- 15 understand.
- MS. WOMACK: Let me clarify.
- 17 CO-HEARING OFFICER DODUC: Please.
- 18 MS. WOMACK: So in my mind, we're -- there's
- 19 daily changes in pumping. It says every day it can
- 20 change. So we have -- say we have them pumping with
- 21 the gates open, other than where the structure
- 22 interferes, so it's not completely open. And they're
- 23 pumping.
- And then they decide, "Oh, we've got a BTF
- 25 coming in from the north. We're going to close the

- 1 control structure." Well, you know, water doesn't just
- 2 stop. So it's going to keep flowing in. And it's used
- 3 to going in that direction -- it kind of stops.
- 4 So my water levels, I would, imagine are going
- 5 to be rising when that control structure comes down.
- 6 It just makes sense. So there's going to be kind of a
- 7 back and forth.
- 8 And I wonder if that has been modeled. In my
- 9 mind, it makes sense to me.
- 10 CO-HEARING OFFICER DODUC: Thank you. I
- 11 understand the question now.
- 12 Mr. Mizell.
- 13 MR. MIZELL: Yes, I object that -- facts not
- 14 in evidence. If she's like to pose it as a
- 15 hypothetical...
- 16 CO-HEARING OFFICER DODUC: We'll consider it a
- 17 hypothetical. Please answer the question.
- 18 WITNESS CHILMAKURI: So as Mr. Bednarski
- 19 explained to you on Friday, there needs to be
- 20 additional hydraulic modeling that needs to be
- 21 conducted, which he explained that, for the entire
- 22 system, starting at Jones Pumping Plant intake in the
- 23 South Canal all the way up to the North Delta
- 24 Diversions, there needs to be hydraulic modeling
- 25 conducted to estimate the hydraulic grade lines and

1 to -- for designing the control gate structures. That

- 2 has to be conducted.
- 3 And what we've been saying is that, when that
- 4 modeling is conducted and when that design is going to
- 5 be -- is taken to the next level, the CCLP's pumping
- 6 plant and their -- their needs will be considered in
- 7 designing those control gates, in making sure that they
- 8 would not be impacted because of these operations.
- 9 MS. WOMACK: Yes. Mr. Hunt, could you put up
- 10 CCLP-70 one more time.
- 11 So this is for, I believe, Mr. Bednarski or
- 12 Mr. Chilmakuri. Has DWR, C- -- or the California
- 13 WaterFix stepped foot on my levees or conducted studies
- 14 of -- well, stepped foot to conduct studies on my
- 15 levees to see how it they would be affected, they could
- 16 be affected by raised water levels?
- 17 We have a mile of -- over a mile that starts
- 18 at the intake for the CCF, and it goes all the way down
- 19 to the Tracy Fish Facility. This is a huge amount of
- 20 levee that only Clifton Court has to take care of
- 21 because we don't have a -- Reclamation 802 had to go
- 22 out of business. We couldn't afford to run it.
- 23 CO-HEARING OFFICER DODUC: Mr. Mizell.
- MR. MIZELL: I'm going to object again to
- 25 facts not in evidence. The evidence that's in the

- 1 record shows no rise in water elevations in the South
- 2 Delta region, so I'm not sure where these facts are
- 3 coming from. And we haven't had a chance to assess
- 4 them.
- 5 MS. WOMACK: One final question. So during
- 6 times of flood, like in 2017, who decides if the
- 7 control gates are closed or open?
- 8 MR. BERLINER: Objection. Are you asking that
- 9 question in general as a hypothetical in the event that
- 10 there were high flows, or are you asking specifically
- 11 about 2016?
- MS. WOMACK: 2017. In the example of the
- 13 flooding situation, who decides whether or not the BTF
- 14 gets to take or -- or the control gates down -- you
- 15 know, who gets to take the water, the flood water?
- 16 CO-HEARING OFFICER DODUC: We'll consider that
- 17 a hypothetical if you are able to answer.
- 18 WITNESS BEDNARSKI: Yeah, that's beyond my
- 19 knowledge as part of the engineering team as to who
- 20 would make calls during flood conditions as to which
- 21 gates in the Delta are open and which ones are closed.
- 22 MS. WOMACK: Mr. Bednarski, are you aware that
- 23 the original mandate of the SWP and the CCF was to
- 24 prevent flooding in the South Delta, that was why it
- 25 was put in? That's in the very original documents.

1 MR. MIZELL: Objection, assumes facts not in

- 2 evidence.
- 3 MS. WOMACK: I will find it and bring it up.
- 4 Thank you.
- 5 MS. DES JARDINS: Mr. Chilmakuri, I did want
- 6 to -- since there was an objection about assuming facts
- 7 not in evidence, I'd like to go to the modeling of
- 8 water levels.
- 9 So if we could go back, I'd like to pull up
- 10 Exhibit SWRCB-102, Mr. Hunt. And yeah, Volume 1. And
- 11 then I'd like to go to Appendix 5-A, Additional
- 12 Modeling, Section D, Attachment 6. Scroll down. It's
- 13 down further. That's it, yes. And I'd like to go to
- 14 Page 9, please. And then let's zoom in on the lower
- 15 left corner where Clifton Court Forebay is. Zoom in
- 16 more, please. Yeah. Continue zooming.
- 17 So Mr. Chilmakuri, you testified about this
- 18 modeling.
- 19 And let's -- scroll over to the left.
- 20 So the DMC intake -- you testified yesterday
- 21 that the DMC intake leading to the Tracy Pumping Plant
- 22 was Channels 214 and 216; would that be correct?
- 23 WITNESS CHILMAKURI: Mr. Hunt, could you
- 24 please move the mouse a little bit there. Thank you.
- 25 Yes.

1 MS. DES JARDINS: All right. And Ms. Womack's

- 2 diversion is in Channel 214; is that correct?
- 3 WITNESS CHILMAKURI: I -- it would be -- I
- 4 don't know sitting here. I'd have to look into the
- 5 details of the channel lengths -- or DSM-2 inputs to
- 6 determine the channel lengths. And I need to look at
- 7 Ms. Womack's -- where Ms. Womack's intake is located in
- 8 reference to the Jones Pumping Plant or the junction
- 9 with Old River to determine that.
- 10 MS. DES JARDINS: Is Node 70 -- but is Node 70
- 11 the Tracy Fish Facility?
- 12 WITNESS CHILMAKURI: Approximately. I mean,
- 13 that is -- Node 70 is roughly the junction of Old River
- 14 and Jones Pumping Plant intake channel.
- MS. DES JARDINS: So Mr. Jones [sic], you've
- 16 testified previously -- Mr. Chilmakuri, you testified
- 17 previously that -- if there's no explicit
- 18 representation of the gates or the control structure on
- 19 Jones, the proposed control structure, I'm wondering,
- 20 doesn't the DSM-2 model only consider exports from the
- 21 Jones Pumping Plant at intervals of the day?
- 22 WITNESS CHILMAKURI: That's correct.
- 23 MS. DES JARDINS: And doesn't it also only
- 24 consider exports from the isolated facility at
- 25 intervals of a day?

- 1 WITNESS CHILMAKURI: The time series inputs
- 2 for those exports are daily, but the model is running
- 3 on a 15-minute time step. So the model assumes that
- 4 the export values will be the same throughout the day.
- 5 But for every 15 minutes, it just assumes that the
- 6 export will be close to the daily average value. But
- 7 the inputs to the model are a daily average.
- 8 MS. DES JARDINS: But -- so you don't have any
- 9 modeling of the effect of intermittent diversions from
- 10 either the Tracy Pumping Plant or the North Delta
- 11 intakes in the DSM-2 model?
- 12 WITNESS CHILMAKURI: DSM-2 model runs on a
- 13 15-minute time step. I don't know what you mean by
- 14 "intermittent" -- or intermittent operations. And in
- 15 fact, in the North Delta Diversion, the diversions are
- 16 actually changing on a 15-minute basis.
- 17 I'm just saying that the input boundary
- 18 conditions are on a daily average basis, but that means
- 19 the model is just assuming the amount of exports at
- 20 North Delta Diversion or even from the South Delta
- 21 channels will be e- -- at any given 15-minute time step
- 22 will be equal to the daily average value.
- 23 MS. DES JARDINS: Mr. Hunt, could we go back
- to DWR-1304, please. And I'd like to go to Page 66.
- 25 And scroll back up.

1 And where it says -- on the third paragraph on

- 2 the top, Mr. Chilmakuri, doesn't it indicate that there
- 3 could be intermittent diversions from the -- from the
- 4 North Delta intakes?
- 5 WITNESS CHILMAKURI: Yes.
- 6 MS. DES JARDINS: And doesn't it state there
- 7 that -- that they could be specific to the tidal --
- 8 tidal state?
- 9 WITNESS CHILMAKURI: Yes.
- 10 MS. DES JARDINS: So DSM-2 doesn't model --
- 11 WITNESS CHILMAKURI: No.
- MS. DES JARDINS: -- those intermittent
- 13 diversions, correct?
- 14 WITNESS CHILMAKURI: No, you're wrong.
- 15 Actually, DSM-2 does take into consideration
- 16 the tidal influence. And that's what I was describing,
- 17 that, in the model, the DSM -- when we are simulating
- 18 the North Delta Diversion in DSM-2 in a given day,
- 19 there are stretches of time when the diversion is shut
- 20 off if the sweeping velocity requirement is not met.
- 21 And there will be stretches of day that there will be
- 22 diversion on. That's the intermittent operation that
- 23 the sentence is describing and the model reflects that.
- MS. DES JARDINS: Thank you.
- 25 I'd also like to ask, the DSM-2 model assumes

1 Priority 3 gate operations for Clifton Court Forebay;

- 2 isn't that correct?
- 3 WITNESS CHILMAKURI: For both No Action and
- 4 WaterFix, yes.
- 5 MS. DES JARDINS: But Priority 3 gate
- 6 operations are not a regulatory requirement, are they?
- 7 MR. MIZELL: I'm going to object to the
- 8 question. Lack of foundation that this has to do with
- 9 the water rights at CCLP's diversion points.
- 10 As Dr. Chilmakuri just answered, the
- 11 assumptions on Priority 3 are the same with or without
- 12 the project. And without a further showing that this
- 13 has an influence on CCLP, I think it's out of scope.
- MS. DES JARDINS: I would like -- just
- 15 exploring the basis of his opinion about the tidal
- 16 effects on water levels and water levels have been
- 17 modeled.
- 18 CO-HEARING OFFICER DODUC: Overruled,
- 19 Mr. Mizell.
- 20 WITNESS CHILMAKURI: Could you repeat the
- 21 question?
- MS. DES JARDINS: Yeah, is -- is it a
- 23 regulatory requirement by Priority 3 gate operations
- 24 they are not a regulatory gate requirement, are they?
- 25 WITNESS CHILMAKURI: The water levels in the

- 1 DMC Intake Channel or the Jones Pumping Plant intake
- 2 channel where Ms. Womack's intake is, the water levels
- 3 there are not necessarily -- well, actually --
- 4 MS. DES JARDINS: Mr. Chilmakuri --
- 5 WITNESS CHILMAKURI: It's not --
- 6 CO-HEARING OFFICER DODUC: Hold on. You need
- 7 to speak one at a time for the court reporter.
- 8 And, Ms. Des Jardins, please let
- 9 Dr. Chilmakuri finish his response.
- 10 MS. DES JARDINS: I would like an --
- 11 CO-HEARING OFFICER DODUC: Hold on.
- MS. DES JARDINS: -- answer to the question.
- 13 CO-HEARING OFFICER DODUC: Hold on.
- Dr. Chilmakuri, are you finished?
- 15 WITNESS CHILMAKURI: No, I'm not. I'm trying
- 16 to answer the question.
- 17 CO-HEARING OFFICER DODUC: Go ahead then.
- 18 WITNESS CHILMAKURI: Yes. It's not -- as far
- 19 as I know, it's not a regulatory requirement, the
- 20 Priority 3 is not a regulatory requirement. However,
- 21 it is an operational consideration that DWR makes on a
- 22 daily basis to maintain the water levels in the South
- 23 Delta channels to be protective of those water levels.
- 24 So it is a representation of how the different
- 25 Clifton Court radial gates would be operated to be

1 protective of the South Delta water channels. And that

- 2 operation does not change between the No Action and the
- 3 WaterFix scenarios.
- 4 MS. DES JARDINS: Mr. Chilmakuri, I'd like to
- 5 bring up Exhibit CCLP-75, please -- or Mr. Hunt -- no,
- 6 that's -- I believe it's -- I'm sorry. Is that
- 7 CCLP-75? Okay. Then I don't have the correct -- I
- 8 would like to scroll down -- can we go to Page 2,
- 9 please, of this exhibit.
- 10 CO-HEARING OFFICER DODUC: Let's establish
- 11 what this is and that the witnesses --
- MS. DES JARDINS: It's a --
- 13 CO-HEARING OFFICER DODUC: Hold on. Please,
- 14 allow me to finish.
- 15 -- and whether or not the witnesses are
- 16 familiar with this document.
- Now you may respond.
- 18 MS. DES JARDINS: Mr. Bednarski, there was a
- 19 letter from Local Agencies of the North Delta and
- 20 Central Delta Water Agency about the need to identify
- 21 the impacted diversions. Are you aware of this letter?
- 22 WITNESS BEDNARSKI: No, I'm not.
- 23 MS. DES JARDINS: I would like to ask about
- the action recommended on Page 2. Can we go to Page 2.
- 25 There was a concern expressed that DWR and

- 1 Reclamation had failed to identify the affected intakes
- 2 and that there was a truncated and vague discussion of
- 3 injury to legal users of waters and that the
- 4 Supplemental Information section is deficient, did not
- 5 correct the deficiency. So you were not -- you were
- 6 not aware of this concern that was raised?
- 7 CO-HEARING OFFICER DODUC: I believe there's
- 8 an objection forthcoming.
- 9 MR. BERLINER: Yes. If we are referring to
- 10 No. 2, which refers to Page 2, the recitation that
- 11 Ms. Des Jardins just finished is not contained within
- 12 this paragraph.
- 13 So object to the form of the question. And it
- 14 assumes facts not in evidence because her dissertation
- on the background of this question is not contained
- 16 anywhere on this page.
- 17 CO-HEARING OFFICER DODUC: So help me
- 18 understand where you're going with this,
- 19 Ms. Des Jardins. What's the connection you're making?
- 20 MS. DES JARDINS: It's just that there was
- 21 notice to -- was -- Mr. Bednarski, who was the section
- 22 manager and as DWR's witness, was this information
- 23 about need to identify -- it says, the truncated and
- 24 vague discussion of injury to legal users of water
- 25 buried in the supplemental information section does not

1 correct the deficiency in identifying the legal users

- 2 of water impacts.
- 3 CO-HEARING OFFICER DODUC: Ms. Des Jardins --
- 4 Ms. Des Jardins, that's what it says. But you need to
- 5 put it in the context for me of this surrebuttal which
- 6 is an impact on CCLP's water rights. How does this
- 7 relate, directly relate?
- 8 MS. DES JARDINS: Were CCLP's water rights
- 9 identified?
- 10 CO-HEARING OFFICER DODUC: I believe that has
- 11 been asked and answered.
- 12 MS. DES JARDINS: Yeah, and was he aware that
- 13 there were early comments that this needed to be done
- 14 for the petition?
- 15 CO-HEARING OFFICER DODUC: That is too broad
- of a question. You need to limit it to the impact on
- 17 CCLP's water rights. And if the question is whether or
- 18 not they considered it, that has been asked and
- 19 answered numerous times.
- 20 MS. DES JARDINS: Okay. Let's move on. Thank
- 21 you.
- MS. WOMACK: Mr. Emrick?
- MR. EMRICK: Okay. Are you guys done?
- MS. WOMACK: Mm-hmm.
- 25 CO-HEARING OFFICER DODUC: And please remind

1 me, now, Mr. Emrick, what are your remaining lines of

- 2 questioning?
- 3 MR. EMRICK: I'm going to -- these are going
- 4 to focus on Dr. Chilmakuri. I have three or four
- 5 questions. They'll be dealing with water quality in
- 6 the South Delta as set forth in his testimony.
- 7 CO-HEARING OFFICER DODUC: Thank you.
- 8 CROSS-EXAMINATION BY MR. EMRICK
- 9 MR. EMRICK: If we could have DWR-1421 on the
- 10 screen.
- 11 That's your testimony; is that correct,
- 12 Dr. Chilmakuri?
- 13 WITNESS CHILMAKURI: Yes.
- MR. EMRICK: And if I could have you go to
- 15 Page 5, please. And if you go up a little bit more to
- 16 show the -- I'm sorry, the other way, to show the
- 17 graphs there.
- Dr. Chilmakuri, you've presented two figures
- 19 here, Figure CL2 and Figure EC5. My question is this
- 20 is a comparison between the preferred operational
- 21 modeling, CWF H3+, compared the No Action Alternative;
- 22 is that correct?
- 23 WITNESS CHILMAKURI: The reason I included
- 24 these graphs is just to note that this analysis --
- 25 CO-HEARING OFFICER DODUC: I'm sorry. His

- 1 question is more specific. Can you just answer that?
- WITNESS CHILMAKURI: Yeah, it includes that,
- 3 the CWF H3+ and No Action, but it also includes the H3,
- 4 H4, and BA H3+ scenarios.
- 5 MR. EMRICK: Well, what I was going to ask you
- 6 is isn't it true that these graphs show that CWF H3+
- 7 will have greater impacts on water quality, degrading
- 8 impacts on water quality, than the No Action
- 9 Alternative in the South Delta?
- 10 WITNESS CHILMAKURI: Not necessarily, no.
- 11 What these graphs are showing there is that they
- 12 would -- the salinity conditions would be similar to a
- 13 large extent, but there may be cases -- occasional
- 14 cases there would be increased salinity, as you can see
- in the October-November, for example, in the top graph
- 16 there. This is Old River at Clifton Court chloride
- 17 concentrations.
- 18 And that modeled increase, as I explained to
- 19 you on Friday and it was explained before, largely is a
- 20 result of, one, the Head of Old River Gate operation
- 21 differences between the No Action Alternative and the
- 22 WaterFix scenario.
- 23 MR. EMRICK: So that's -- if you can explain
- 24 to me a little bit more, that's where you're testifying
- 25 that the difference between CWF H3+ and the No Action

- 1 Alternative, that's the reason for it?
- 2 WITNESS CHILMAKURI: That's one -- that's --
- 3 for South Delta channels, the changes in salinity, the
- 4 primary reason is that. And also, of course, there is
- 5 a change in the export operations between the No Action
- 6 Alternative and the WaterFix scenarios at the South
- 7 Delta intakes. And that's another driver.
- 8 MR. EMRICK: Has DWR done any investigation,
- 9 you yourself or any investigation that you know of,
- 10 that investigated the potential impacts on CCLP in the
- 11 modeled increases in salinity or EC in the South Delta?
- 12 For instance, have -- has DWR looked at what the
- 13 impacts to ability to grow crops or conduct farming
- 14 would be under increased salinity levels in the South
- 15 Delta?
- 16 WITNESS CHILMAKURI: As part of the EIR/EIS, I
- 17 believe there was an extensive analysis on the
- 18 agricultural impacts to -- in the Delta. So I would
- 19 say yes.
- 20 MR. EMRICK: Do you know what section that's
- 21 in?
- 22 WITNESS CHILMAKURI: I don't recall the exact
- 23 number.
- 24 MR. EMRICK: Do you know whether that included
- 25 CCLP?

- 1 WITNESS CHILMAKURI: Well, again, it's not
- 2 specific. It was for the entire Delta, so they would
- 3 be part of it.
- 4 MR. EMRICK: Is there a reason why you didn't
- 5 model Boundary 1 -- or excuse me, why you didn't look
- 6 at Boundary 1 for the analysis with respect to impacts
- 7 to CCLP? Or at least why it's not shown in this --
- 8 this -- in your testimony?
- 9 WITNESS CHILMAKURI: This -- so the -- again,
- 10 the reason Boundary 1 is not shown in these graphs is
- 11 this is just -- again, as I was trying to explain
- 12 earlier, these are just examples of the information
- 13 that was included in the testimony already which
- 14 presents information that's related to CCLP.
- Now, if you go back to Part 1,
- 16 Dr. Nader-Tehrani's testimony, we have exact same
- 17 graphs with Boundary 1 included.
- 18 MR. EMRICK: Do you know whether Dr. Tehrani,
- 19 however, looked at -- specifically looked at impacts to
- 20 CCLP with respect to Boundary 1?
- 21 WITNESS CHILMAKURI: Again, when you say
- 22 "specific," I mean, all this information is providing a
- 23 reasonable -- reasonably what we can expect at CCLP
- 24 with WaterFix. So as a -- I don't know how to answer.
- 25 This is -- we are trying to infer -- using the

- 1 information that we have available today, we're trying
- 2 to infer or project what the potential impacts to CCLP
- 3 would be.
- 4 So I would say yes, the information is
- 5 available for -- to assess what the impacts will be to
- 6 CCLP from WaterFix.
- 7 MR. EMRICK: Okay. That's all I have.
- I think -- I think that's all we have.
- 9 CO-HEARING OFFICER DODUC: Thank you,
- 10 Mr. Emrick.
- 11 MS. WOMACK: Can I have just one more check?
- MR. EMRICK: Ms. Womack wants to take a
- moment.
- MS. WOMACK: Thank you so much.
- MR. EMRICK: I think we're done.
- 16 CO-HEARING OFFICER DODUC: Any redirect,
- 17 Mr. Mizell or Mr. Berliner?
- MR. MIZELL: No, we have no redirect.
- 19 CO-HEARING OFFICER DODUC: Thank you. I
- 20 believe staff has questions for this panel. And a
- 21 question -- I think Ms. McCue has a clarification
- 22 regarding exhibits that we need to follow-up on.
- 23 MR. DEERINGER: Good morning, I believe this
- 24 question's properly directed at Mr. Bednarski, but if
- 25 Dr. Chilmakuri is able to answer as well, that will be

- 1 helpful.
- 2 At any point in developing any of the WaterFix
- 3 proposals, have the petitioners evaluated the
- 4 feasibility of moving the control structure downstream
- 5 of Clifton Court's point of diversion?
- 6 WITNESS BEDNARSKI: We have looked at that as
- 7 an option. We ran into some potential issues with some
- 8 sensitive environmental concerns, habitats south of
- 9 there. But our plan is to actually sort of ground
- 10 truth that, once we get into preliminary design, go out
- 11 in the field and check to see if these sensitive habits
- 12 actually exist.
- 13 They were in a library that's a preexisting
- 14 library that we use as a database to sort of categorize
- 15 the different areas. And in that library, it showed up
- 16 as a sensitive habitat.
- 17 We would propose to go out during the
- 18 preliminary design and actually determine whether it is
- 19 or not. And if it isn't, then we would be open to
- 20 moving the control structure south of where it is now.
- 21 MR. DEERINGER: Thank you. And was that
- 22 evaluation documented somewhere in the WaterFix record,
- 23 to your knowledge?
- 24 WITNESS BEDNARSKI: I'm not aware that it has.
- 25 It would probably be in our working documents

- 1 somewhere.
- 2 MR. DEERINGER: Okay.
- 3 MS. WOMACK: Mr. Deeringer, could I -- I know
- 4 that's a question for him, but we have a very big
- 5 concern either side. It's not a question of moving
- 6 the --
- 7 CO-HEARING OFFICER DODUC: Hold on. Hold on,
- 8 please.
- 9 MS. WOMACK: Is that something --
- 10 CO-HEARING OFFICER DODUC: No, no, no. We're
- 11 not going to --
- MS. WOMACK: Okay.
- 13 CO-HEARING OFFICER DODUC: -- provide
- 14 arguments at this time.
- MS. WOMACK: Oh, it's not an argument. It's
- 16 just we -- there's concerns on both side. So there's
- 17 more concerns either way.
- 18 MR. DEERINGER: That was all I had. Thank
- 19 you. And I think Ms. McCue has a question.
- 20 MS. McCUE: I believe both Dr. Chilmakuri and
- 21 Mr. Bednarski referred to the -- in their testimony,
- 22 referred to the Administrative Draft Supplemental EIR
- 23 or the Public Draft Supplemental EIR/EIS. And then in
- 24 Mr. Bednarski's testimony, you say the Public Draft
- 25 Supplemental EIR/EIS was submitted as Exhibit DWR-1416.

1 But there's no 1416 on the exhibit identification index

- 2 and nothing was submitted. So I'm just --
- 3 MR. MIZELL: Yes, Ms. McCue, I can answer
- 4 that.
- 5 Tripp Mizell.
- 6 That is probably an editorial oversight on the
- 7 part of myself when I was looking at the exhibit
- 8 numbers and cross-referencing them for what we would be
- 9 submitting.
- There was the notice by the Hearing Staff
- 11 about the use of a State Water Board exhibit number for
- 12 the Public Draft SEIR, and that reference escaped my
- 13 notice at the time.
- 14 It should properly reference SWRCB-114.
- 15 MS. McCUE: 114.
- MR. MIZELL: Yes.
- 17 MS. McCUE: But you didn't include it on your
- 18 exhibit identification index, and we don't have it in
- 19 our possession. We just marked it with -- you know,
- 20 marked it for somebody to submit it. Gave it an
- 21 exhibit number in case somebody submitted it.
- 22 MR. MIZELL: Yes. If you would like, I will
- 23 modify our exhibit index to reference the website where
- 24 the Public Draft SEIR is available, much as we did with
- 25 the previous copies of the environmental document.

- 1 CO-HEARING OFFICER DODUC: So do the
- 2 references in these witnesses' testimony need to be
- 3 corrected?
- 4 MR. MIZELL: I believe Ms. McCue has
- 5 identified the one spot. So we can either correct that
- 6 here on the record -- the verbal -- or the written
- 7 reference is to the Public Draft SEIR, and that is --
- 8 that has been given a State Board exhibit number at
- 9 this time. That's the only change there.
- 10 MS. McCUE: I think you do need to submit the
- 11 file, though, and not a web- -- a link to the website,
- 12 so that we have them.
- 13 MR. MIZELL: I'd be happy to coordinate with
- 14 Hearing Staff offline if that is a better use of the
- 15 Hearing Officers' time, or we can discuss it here.
- 16 But we have submitted the previous copies of
- 17 the environmental document in a few different ways, and
- 18 we're happy to provide it in whatever format you'd
- 19 like.
- MS. McCUE: Okay.
- 21 CO-HEARING OFFICER DODUC: Ms. Meserve?
- MS. MESERVE: Sorry. Just a point of
- 23 clarification. I guess I do object to the submittal of
- 24 the public review draft into the record at this time.
- I understand that there's been a designation

- 1 of what the exhibit number would be. But at this
- 2 point, it has not been submitted, and no one has been
- 3 allowed to submit testimony on it.
- 4 So I think -- my understanding is that the
- 5 reference to that exhibit number in the testimony that
- 6 we heard today should just be corrected to refer to the
- 7 Admin Draft SEIR because we don't have -- none of the
- 8 rest of us were able to refer to or use the public
- 9 review draft in our testimony. So I'm not sure why DWR
- 10 would be able to either.
- 11 CO-HEARING OFFICER DODUC: Ms. Des Jardins?
- MS. DES JARDINS: Yes, and it would be
- 13 arbitrary to rule that the admin draft was beyond the
- 14 scope of surrebuttal for all of the protestants and
- 15 then to allow the petitioners to submit the entire
- 16 public -- to rule that the public draft was beyond the
- 17 scope of surrebuttal for all the protestants and then
- 18 to allow the petitioners to submit the entire public
- 19 draft.
- 20 And I do not see any of this testimony that
- 21 relies on or in any way uses information in the public
- 22 draft. It's well beyond the scope of this part of the
- 23 hearing. And to the extent there's new information in
- 24 it, it should not be submitted at this time because of
- 25 the scoping rules.

- 1 CO-HEARING OFFICER DODUC: Thank you.
- 2 Mr. Mizell.
- 3 MR. MIZELL: Yes, just to make this easy on
- 4 the Hearing Officers and Hearing Staff. We will
- 5 provide revised copies of both witnesses' testimonies
- 6 and strike any reference to the Public SEIR Draft.
- 7 We provided parallel citations. We thought it
- 8 was more informative. But obviously it's causing more
- 9 headache than it's worth. So we will provide written
- 10 revisions.
- 11 CO-HEARING OFFICER DODUC: Thank you. And at
- 12 this time, do you wish to move your exhibits into the
- 13 record, not including the public draft?
- 14 MR. MIZELL: Yes, if you'd give me one second.
- So the Department would like to move DWR-1415,
- 16 1417, 1418, 1419, 1420, 1421, 1425 and 1426 into the
- 17 record.
- 18 CO-HEARING OFFICER DODUC: Thank you.
- 19 Any objections?
- 20 MS. McCUE: I just have a question. Is 1425
- 21 and 1426 cross-examination exhibits? And are we
- 22 waiving --
- 23 CO-HEARING OFFICER DODUC: There is no 1426.
- 24 1425 is Stockton's Response Ruling to Produce
- 25 Information.

- 1 MS. McCUE: No, that's 1415.
- 2 CO-HEARING OFFICER DODUC: I'm sorry.
- 3 MS. McCUE: I thought he included 1425 and
- 4 1426 at the end of his list.
- 5 CO-HEARING OFFICER DODUC: Oh.
- 6 MR. MIZELL: I did include 1425 and 1426.
- 7 MS. McCUE: And were those cross-examination
- 8 exhibits?
- 9 MR. MIZELL: Yes.
- 10 MS. McCUE: So are we waiting, or is this the
- 11 time?
- 12 CO-HEARING OFFICER DODUC: Ah, yes. Let's go
- 13 ahead and wait on cross-examination exhibits, please.
- MR. MIZELL: Very well. I'll resubmit 1425
- 15 and 1426 at a later time.
- 16 CO-HEARING OFFICER DODUC: All right. With
- 17 that then, 1415, 1417, 1418, 1419, 1420, and 1421 are
- 18 received into the record.
- 19 (Department of Water Resources Exhibits
- 20 DWR-1415, DWR-1417, DWR-1418, DWR-1419,
- DWR-1420, and DWR-1421 admitted into
- evidence)
- 23 MR. MIZELL: I have one further point. So the
- 24 website does not reflect that SWRCB-113 has been
- 25 admitted into evidence, I don't want to make

- 1 duplicative motions, but if is not, then the Department
- 2 would submit SWRCB-113 also into evidence at this time.
- 3 CO-HEARING OFFICER DODUC: 113 is the
- 4 Administrative Draft Supplemental EIR/EIS.
- 5 MR. MIZELL: That's correct.
- 6 CO-HEARING OFFICER DODUC: All right. Hearing
- 7 objection, so received into the record.
- 8 (State Water Resources Control Board Exhibit
- 9 SWRCB-113 admitted into the record)
- 10 CO-HEARING OFFICER DODUC: Thank you,
- 11 Dr. Chilmakuri, Mr. Bednarski.
- Before we take our morning break, let me
- 13 confirm to see what else is on our to-do list.
- 14 DWR and the State Water Contractors have
- 15 withdrawn your request to produce additional witnesses.
- 16 And with that, then we are also -- with respect to
- 17 Ms. Des Jardins's two requests, they are denied. One
- 18 was regarding the subpoena of a DWR witness. The other
- 19 was with respect to the scope of surrebuttal.
- 20 And with that, we will take a break until
- 21 10:45, upon when we will hear from Mr. Burke.
- 22 (Recess taken from 10:26 to 10:45)
- 23 CO-HEARING OFFICER DODUC: All right. It is
- 24 10:45, please take your seats. And we welcome back
- 25 Mr. Burke.

- 1 Mr. Ruiz, before we get to Mr. Burke's
- 2 testimony, are there any objections that need to be
- 3 stated for the record at this time?
- 4 Ms. Des Jardins.
- 5 MS. DES JARDINS: Not an objection but I would
- 6 like to reserve up to 15 minutes for cross-examination
- 7 of Mr. Burke.
- 8 CO-HEARING OFFICER DODUC: All right.
- 9 Mr. Ruiz, please begin.
- 10 THOMAS BURKE,
- 11 called as a Part 2 Surrebuttal witness
- 12 by protestant South Delta Water Agency,
- 13 Central Delta Water Agency (Delta
- 14 Agencies) having been previously duly
- sworn, was examined and testified
- 16 further as hereinafter set forth:
- 17 DIRECT EXAMINATION BY MR. RUIZ
- 18 MR. RUIZ: Good morning, Hearing Officers.
- 19 Dean Ruiz for South Delta Water Agency parties.
- 20 Mr. Burke is present with us this morning.
- 21 Mr. Burke, is SDWA-328 a true and correct copy
- 22 of your surrebuttal testimony for Part 2 of this
- 23 proceeding?
- 24 WITNESS BURKE: Yes, it is.
- 25 MR. RUIZ: Can you please summarize your

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- 1 testimony at this point.
- 2 WITNESS BURKE: The testimony that I submitted
- 3 as the surrebuttal are in response to Dr. Chilmakuri's
- 4 rebuttal testimony and his Opinion No. 7, where he
- 5 takes issue with some of the elements of our salt
- 6 budget that we put together for the project.
- 7 I've broken down some of his statements into
- 8 seven different elements that I'd like to address.
- 9 They're expressed in detail in my write-up, so I'll
- 10 just briefly go over those now in my oral presentation.
- 11 I'd like to just address six of those seven.
- 12 The first statement was Dr. Chilmakuri stated
- 13 that I did not take into account the internal salt
- 14 budget components within the South Delta that are
- 15 within the study area. And actually, to the contrary,
- 16 the residual of the salt budget represents the internal
- 17 sources and sinks of the salt budget. So all the
- 18 elements of the salt budget are accounted for within
- 19 the model.
- The second element from Dr. Chilmakuri's
- 21 rebuttal testimony is that he takes issue with the fact
- 22 that I used a single EC-chloride relationship for each
- 23 of the inflow-outflow locations within the salt budget.
- 24 The data used to create an EC-CH, or chloride
- 25 relationships, represent the actual data that was

- 1 corrected over a long period of time at each of these
- 2 locations or -- locations that are representative for
- 3 each of the inflow and outflow points within the salt
- 4 budget.
- 5 This data that was collected over that period
- 6 of time represents the real variability of the
- 7 EC-chloride relationship from the many sources that
- 8 contribute flow to that location. By default, this
- 9 represents the real variation in the sources that lead
- 10 to this -- each location.
- 11 The third element is Dr. Chilmakuri is
- 12 concerned with the accuracy of the salt budget. The
- 13 budget was based on output from the petitioner's model.
- 14 Any inaccuracy in this budget would be based on the
- 15 inaccuracy of the DSM-2 model itself and would apply to
- 16 the salinity analyses that have been deducted in this
- 17 hearing process, the EIR/EIS, and the BA.
- 18 Fourth element is Dr. Chilmakuri's states that
- 19 the budget residual is negative and therefore the salt
- 20 must be flowing out of the South Delta. This is
- 21 actually a misrepresentation or misunderstanding of
- 22 what the residual of the salt budget actually
- 23 represents.
- Dr. Chilmakuri is thinking that the residual
- 25 of the budget is actual removal of salt from the South

- 1 Delta area. What the residual represents is actually
- 2 the net Delta consumptive use, the seepage that occurs
- 3 within the South Delta area, and that the salinity that
- 4 remains -- or salinity change that remains within the
- 5 channel.
- 6 And so you can't look at the resulting
- 7 positive or negative value as an inflow or out -- net
- 8 inflow or outflow but actually just the components that
- 9 are within each of those budgets for the No Action
- 10 Alternative and the WaterFix here, WaterFix
- 11 alternative.
- 12 What you need to look at is the difference
- 13 between those residuals. That's showing the change
- 14 that is occurring within what remains within the South
- 15 Delta given the changes that are inherent within the No
- 16 Action Alternative and the WaterFix scenario.
- 17 The fifth element I'd like to address is that
- 18 Dr. Chilmakuri misunderstands what the 30,000 metric
- 19 ton increase in salt represents. That 30,000 metric
- 20 tons of salt is not what was brought into the South
- 21 Delta but actually what remains in the South Delta
- 22 given the inflow and outflow of salt over that period
- 23 of time.
- 24 And the last element that I'd like to address
- 25 is Dr. Chilmakuri represents that EC be used to

- 1 evaluate salinity rather than a salt loading budget.
- 2 And I differ with that. I think that's an incorrect
- 3 approach because looking at just EC would not take into
- 4 account the flow-related effects of the amount of salt
- 5 that's moving into or out of the system.
- 6 By looking at the flow, an EC of, say, 5 or 10
- 7 or 100 would have a much different effect if it was
- 8 associated with a flow of 10 cfs, whereas if that same
- 9 EC was associated with a flow of 100 or 1,000 cfs.
- 10 Therefore, you need to take the volume-weighted
- 11 component of that EC in order to understand what the
- 12 true mass of salt is that's moving through the system.
- And that's all my presentation.
- 14 CO-HEARING OFFICER DODUC: Thank you,
- 15 Mr. Burke.
- 16 All right. DWR has requested, actually, a
- joint cross with State Water Contractors for 60
- 18 minutes.
- 19 CROSS-EXAMINATION BY MS. MORRIS and DR. CHILMAKURI
- 20 MS. MORRIS: I'm just going to take a second
- 21 to get organized.
- 22 (Pause in proceedings)
- 23 MS. MORRIS: Good morning. Happy new water
- 24 year. And there's rain in the forecast, so we should
- 25 all be happy.

1 I have some questions about -- and it really

- 2 just tracks the points that Mr. Burke makes, so it's
- 3 just going to be walking through, mostly in order of
- 4 his testimony.
- In your surrebuttal testimony, SDWA-328, the
- 6 WaterFix scenario you say you used for the salt budget
- 7 analysis is CWF H3+, correct?
- 8 WITNESS BURKE: No, I believe this is related
- 9 to the Preferred Alternative BA, CWF BA. This was --
- 10 the salt budget was developed before that H3+ was
- 11 issued.
- MS. MORRIS: So if we could look at your
- 13 testimony on Page 7, looking at Line 11.
- So your CWF H3+ is actually CWF BA H3+?
- 15 WITNESS BURKE: That's correct.
- 16 MS. MORRIS: So is it fair to assume that any
- 17 reference in SDWA-328 that says CWF H3+ is the modeling
- 18 BA CWF H3?
- 19 WITNESS BURKE: The modeling was actually
- 20 conducted on the BA H3+. But in our analysis of the
- 21 BA H3+ and CWF H3+, we found very little difference in
- 22 the salinity elements for the modeling.
- 23 MS. MORRIS: Oh, good. I have questions for
- 24 you about that.
- 25 So you're still using for your surrebuttal

1 testimony the salt budget analysis that you referenced

- 2 in your surrebuttal testimony SDWA-291, correct?
- 3 WITNESS BURKE: That's correct.
- 4 MS. MORRIS: And in SDWA-291, when you refer
- 5 to CWF PA, that's the BA H3+ modeling as well?
- 6 WITNESS BURKE: It was referred to as the
- 7 Preferred Alternative at that time.
- 8 MS. MORRIS: So yes?
- 9 WITNESS BURKE: I believe so.
- 10 MS. MORRIS: And when you refer to CWF H3+,
- 11 then you're -- I'm sorry.
- 12 Do you know that the exports in the salt
- 13 budget area changed between BA H3+ and CWF H3+?
- 14 WITNESS BURKE: Yes, I do.
- MS. MORRIS: And -- but you didn't repeat the
- 16 salt budget analysis for CWF H3+, correct?
- 17 WITNESS BURKE: No. The rebuttal and the
- 18 surrebuttal is based on the original SDWA-291 which was
- 19 conducted before CWF H3+ was made available.
- MS. MORRIS: So you know that they changed,
- 21 but you never did the analysis?
- 22 WITNESS BURKE: In the analysis that we've
- 23 done on previous review of the salinity elements within
- 24 the South Delta, we saw very little change in the
- 25 salinity that we saw within the system. And so we feel

1 that the CWF H3+ and the BA H3+ will produce basically

- 2 a similar results.
- 3 MS. MORRIS: So, you're -- I'm sorry. I'm
- 4 confused. I'm going to go back because I think I
- 5 misunderstood your answer then.
- 6 So your testimony is that the exports in the
- 7 salt budget would not change between BA H3+ and
- 8 CWF H3+?
- 9 WITNESS BURKE: Not significantly in terms of
- 10 what the salt loading would be into the South Delta
- 11 area.
- MS. MORRIS: What do you mean by "not
- 13 significantly"?
- 14 WITNESS BURKE: I don't believe that the
- 15 changes that we've seen within the components of H3+
- 16 for BA and the CWF H3+ are significant enough to change
- 17 the elements within the salt budget based on our review
- 18 of the salinity levels at different points within the
- 19 South Delta.
- 20 MS. MORRIS: But you didn't redo your salt
- 21 budget analysis with the CWF H3+ modeling, correct?
- 22 WITNESS BURKE: No, we didn't completely redo
- 23 the analysis.
- MS. MORRIS: What do you mean by "completely"?
- 25 WITNESS BURKE: That means do it from scratch

- 1 with the new model.
- 2 MS. MORRIS: So what portions did you look at?
- 3 WITNESS BURKE: In previous analysis, what
- 4 we've done is looked at salinity levels at different
- 5 locations within the South Delta.
- 6 MS. MORRIS: Between CWF H3+ and BA H3+?
- 7 WITNESS BURKE: That's correct.
- 8 MS. MORRIS: And where did you produce this
- 9 analysis?
- 10 WITNESS BURKE: I don't believe we've produced
- 11 that analysis in terms of the comparison. It's just
- 12 our own internal review of what we saw when we looked
- 13 at the two models.
- MS. MORRIS: Why didn't you produce it?
- 15 WITNESS BURKE: Because we didn't see a
- 16 significant change.
- 17 MS. MORRIS: Can you produce it now?
- 18 WITNESS BURKE: No, I don't have it with me.
- 19 MS. MORRIS: Can you make it available?
- 20 MR. RUIZ: I'm going to object that. He's
- 21 responding in surrebuttal to Dr. Chilmakuri's rebuttal,
- 22 which was clearly based on the Part 2 alternative prior
- 23 to CWF H3+. So his testimony is pretty clear in that
- 24 regard.
- We're not going to start producing internal

- 1 analyses that were just basically sensitivity analyses
- 2 that demonstrate there's little or no difference, which
- 3 supports his testimony.
- 4 MS. MORRIS: Mr. Burke just testified that,
- 5 based on that analysis, he finds that there is little
- 6 to no difference between the H3+ and BA modeling. So
- 7 if he's opining about that, I'd like to be able to see
- 8 the analysis and make it produced -- and have it
- 9 produced.
- 10 CO-HEARING OFFICER DODUC: Overruled,
- 11 Ms. Morris. What he considered in producing isn't --
- 12 what he considered not relevant to his surrebuttal
- 13 testimony is then outside the scope of his surrebuttal
- 14 testimony.
- MS. MORRIS: Right. But in his testimony,
- 16 he's claiming that they would be similar, so it is
- 17 within the scope.
- 18 MR. DEERINGER: I'm sorry. Are you lodging a
- 19 motion for reconsideration?
- MS. MORRIS: Yes.
- 21 MR. DEERINGER: Okay. Just for the record.
- 22 CO-HEARING OFFICER DODUC: I'm sorry,
- 23 Ms. Morris. I'm trying to follow your line of logic.
- 24 He did an analysis that, in his opinion, did not show
- 25 a -- well, did not -- he believed it was not relevant

- 1 to his surrebuttal testimony; therefore, he did not
- 2 include it in his surrebuttal testimony. And now
- 3 you're suggesting that it be provided.
- 4 MS. MORRIS: But he's actually opining. I
- 5 just asked him, and he said they're similar.
- 6 CO-HEARING OFFICER DODUC: Yes.
- 7 MS. MORRIS: So what he believes is similar
- 8 without being able to describe to me what the
- 9 differences are --
- 10 CO-HEARING OFFICER DODUC: Yes. We're --
- 11 MS. MORRIS: We're not able to evaluate
- 12 whether that's accurate or whether we would agree that
- 13 they're similar. And a lot of this testimony, as you
- 14 can see, deals with 5 to 6 percent changes or small
- 15 percents, and there's disagreement among the experts.
- 16 So my argument is that it is relevant because
- 17 he's now saying that the modeling, in the -- without
- 18 running the salt budget analysis again, that the
- 19 changes between CWF H3+ and BA were not significant.
- 20 CO-HEARING OFFICER DODUC: Ms. Ansley.
- 21 MS. ANSLEY: I was merely going to add that
- 22 Mr. Burke's conclusions here in his surrebuttal
- 23 testimony are specifically to CWF H3+ and not to the BA
- 24 H3+ modeling. So he is making the leap now and
- 25 providing expert opinion on the actual salinity budget

1 of, I guess, CWF H3+ -- because that was the purpose of

- 2 Ms. Morris's original clarifying question, so that we
- 3 could understand where this analysis comes from
- 4 basically because now he's using the term "CWF H3+."
- 5 CO-HEARING OFFICER DODUC: Mr. Ruiz.
- 6 MR. RUIZ: Yes. What Mr. Burke decided as not
- 7 being relevant or what he didn't use -- there's many
- 8 things he probably didn't use. If he didn't use it,
- 9 it's not part of his surrebuttal testimony, it's
- 10 outside of the scope.
- 11 If she wants to ask questions, as she has,
- 12 about why does he refer to CWF H3+ versus the previous
- 13 PA, she can do that, and he's responded to that. But
- 14 he doesn't have to produce anything that he's done
- 15 internally. There's many things he's done that are not
- 16 part of the surrebuttal testimony.
- 17 CO-HEARING OFFICER DODUC: And there's many
- 18 things petitioners have done that are not part of this.
- 19 Request for reconsideration denied.
- 20 MS. MORRIS: But you do agree that, in your
- 21 testimony when you refer to CWF H3+, it's based on the
- 22 BA H3+ modeling, correct?
- 23 WITNESS BURKE: That's correct.
- MS. MORRIS: Thank you.
- 25 WITNESS BURKE: In my professional opinion, I

- 1 feel that, in terms of the salt budget, they would be
- 2 relevantly the same.
- 3 MS. MORRIS: But you haven't produced the
- 4 analysis to verify that, have you?
- 5 MR. RUIZ: Objection, asked and answered,
- 6 argumentative.
- 7 CO-HEARING OFFICER DODUC: Sustained.
- 8 MS. MORRIS: Did you or your staff rerun the
- 9 petitioners' No Action Alternative and BA H3+ DSM-2
- 10 models to get the EC values needed for your salt budget
- 11 analysis?
- MR. RUIZ: I'm going to object just to
- 13 vagueness in terms of time. You mean originally or in
- 14 preparation for his surrebuttal testimony?
- MS. MORRIS: Originally. And this is within
- 16 the scope because he refers to his testimony at 291,
- 17 and his surrebuttal analysis is based on the same
- 18 analysis.
- 19 CO-HEARING OFFICER DODUC: All right.
- Mr. Burke?
- 21 WITNESS BURKE: Yes, we did rerun the
- 22 petitioners' models because we needed to insert outputs
- 23 at the exact locations where we're doing an inflow and
- 24 outflow to the South Delta area. The original model
- 25 didn't have output locations for those points that we

- 1 thought were important.
- We didn't change any of the internal
- 3 components of the model. We just changed how much
- 4 information was being output from the model so it that
- 5 it matched up with the locations that we were
- 6 calculating the salt budget for.
- 7 MS. MORRIS: So which version of the DSM-2 did
- 8 you use to rerun the NAA and BA H3+ models?
- 9 WITNESS BURKE: We were using the 8.06.
- 10 MS. MORRIS: And just to be clear, you did not
- 11 submit the NAA and BA H3+ models that you reran or the
- 12 EC outputs that you used for your analysis into the
- 13 record, correct?
- 14 WITNESS BURKE: I don't believe that those
- 15 were submitted as exhibits for the salt budget
- 16 analysis.
- MS. MORRIS: Did you show anywhere in your
- 18 testimony if your reruns of the NAA and the BA H3+
- 19 provided exactly the same results as the petitioners?
- 20 MR. RUIZ: I'm going to object that misstates
- 21 his testimony and lacks foundation.
- 22 CO-HEARING OFFICER DODUC: Mr. Ruiz, I can
- 23 barely hear you.
- 24 MR. RUIZ: I'm sorry. Objection, it misstates
- 25 his testimony and lacks foundation.

1 CO-HEARING OFFICER DODUC: How do you believe

- 2 it misstates his testimony?
- 3 MR. RUIZ: Well, I believe she used the term
- 4 "exactly the same," and I don't think he said
- 5 anything's exactly the same.
- 6 CO-HEARING OFFICER DODUC: All right.
- 7 Ms. Morris, rephrase, please.
- 8 MS. MORRIS: It's a different context of the
- 9 question. I'm not asking, again, about his opinion
- 10 between the CWF H3+ and the BA, where he said they were
- 11 similar but not exactly the same.
- 12 What I'm asking now is whether -- if he showed
- 13 anywhere in his testimony that the reruns of the NAA
- 14 and BA H3 provided exactly the same results as the
- 15 petitioners' DSM-2 modeling.
- 16 CO-HEARING OFFICER DODUC: And the word
- 17 "exactly" is important?
- MS. MORRIS: Well, in his surrebuttal
- 19 testimony, he says that he -- and he just orally said
- 20 that he used the petitioners model, and it didn't
- 21 change. So I'm trying to confirm that.
- 22 CO-HEARING OFFICER DODUC: All right.
- 23 MR. RUIZ: Yeah, I'll withdraw that aspect.
- 24 The "exactly" I misunderstood in terms of the context.
- 25 CO-HEARING OFFICER DODUC: All right.

- 1 Mr. Burke, will answer, but before he does,
- 2 Mr. Deeringer, if you could move your name tag that
- 3 way, so I don't have to -- I can see Ms. Morris. Thank
- 4 you.
- 5 All right. Mr. Burke?
- 6 WITNESS BURKE: I'm sorry. After all that,
- 7 can you repeat the question, please?
- 8 MS. MORRIS: I will repeat the question.
- 9 Did you show anywhere in your testimony if
- 10 your reruns of the NAA and BA H3+ provided exactly the
- 11 same results as petitioners' modeling?
- 12 WITNESS BURKE: I don't believe we went back
- 13 and tried to verify that petitioners numbers were
- 14 correct. Since we didn't change any of the model
- 15 itself except the output locations, we didn't go back
- 16 and try to verify that the model submitted -- or the
- 17 results from our model matched what was originally
- 18 submitted by the petitioners.
- 19 MS. MORRIS: So you didn't show it in your
- 20 testimony, correct?
- 21 MR. RUIZ: I'm just going to say his testimony
- 22 speaks for itself. It's clear what's in his testimony
- 23 and what's not.
- 24 CO-HEARING OFFICER DODUC: Let's just answer
- 25 it, then, if it's not in his testimony.

1 WITNESS BURKE: No, I didn't include that in

- 2 my testimony.
- 3 MS. MORRIS: Then I want to just, in the next
- 4 set of questions, when I say the South Delta budget
- 5 area or South Delta subregion, I'm talking about the
- 6 subregion delineated in SDWA-291, Figure 1.
- 7 If we can pull that up.
- 8 I just want to make sure you're okay with that
- 9 characterization. Or we can call it whatever you'd
- 10 like, but -- for ease of asking the next set of
- 11 questions.
- 12 So do you agree we can just call this the
- 13 South Delta subregion or South Delta budget area?
- 14 WITNESS BURKE: Yeah, that's a rough map that
- outlines the area. I'd agree with that terminology.
- MS. MORRIS: And it's your map, though?
- 17 WITNESS BURKE: That's correct.
- 18 MS. MORRIS: The salt budget analysis which is
- 19 the subject of your surrebuttal testimony only includes
- 20 chlorides, correct?
- 21 WITNESS BURKE: That's correct.
- MS. MORRIS: It doesn't include bromide,
- 23 sulfates, or other salt components?
- 24 WITNESS BURKE: No, it doesn't.
- MS. MORRIS: Mr. Burke, in your calculations

- of your salt budget for South Delta, you did not
- 2 include the salt mass associated with agricultural
- diversions, return flows, and seepage, correct?
- 4 WITNESS BURKE: I did, actually. Those
- 5 components are what the residual actually is equivalent
- 6 to. The residual is those -- the residual represents
- 7 those components.
- 8 MS. MORRIS: Okay. Let's go and look at your
- 9 testimony, SDWA-291, Page 6.
- 10 And isn't it true that this Table 1 is showing
- 11 what you -- what the inputs were to your South Delta
- 12 water budget component?
- 13 WITNESS BURKE: These are the external inputs
- 14 to the South Delta water budget, that's correct.
- 15 MS. MORRIS: And where can I find that it says
- 16 "agricultural diversions"?
- 17 WITNESS BURKE: Agricultural diversions aren't
- 18 an external input to the South Delta budget. It's the
- 19 internal residual of what's left over in the South
- 20 Delta budget.
- MS. MORRIS: So you're saying that you
- 22 considered ag diversions, return flows, and seepage
- 23 because they are necessarily the output of your
- 24 calculation?
- 25 WITNESS BURKE: That's correct. The residual

- 1 of the external loading to the South Delta.
- 2 MS. MORRIS: And looking at SDWA-328, Page 4.
- 3 Lines 2 to 4, you say that the difference between the
- 4 NAA and BA H3 are relatively minor for the salt
- 5 associated with ag diversion and seepage flows,
- 6 correct?
- 7 WITNESS BURKE: That's correct.
- 8 MS. MORRIS: Did you present any analysis to
- 9 show that the difference in the salt mass for the
- 10 agricultural diversions and seepage is minor between
- 11 the NAA and BA H3+?
- 12 WITNESS BURKE: No, I was just assuming that
- 13 the Project Alternative, the H3+ scenario, would not
- 14 have dramatic impact on the agricultural production in
- 15 the South Delta so that it wouldn't have any difference
- 16 or -- an impact on those loading and return rates.
- 17 MS. MORRIS: But we're not talking about
- 18 agricultural use. We're talking about a salt load
- 19 analysis, correct?
- 20 WITNESS BURKE: Well, when you're talking
- 21 about a salt load analysis, you need to determine what
- 22 the agricultural use is, or the consumptive use within
- 23 the Delta. You can't leave that out of your
- 24 calculation.
- MS. MORRIS: So, but you didn't actually

1 analyze any agriculture production; you just assumed it

- 2 was the same?
- 3 WITNESS BURKE: No, I'd left that as a
- 4 residual of the budget. It wasn't necessary to
- 5 annualize exactly what the inflow or outflow was. It
- 6 is the residual of the budget.
- 7 MS. MORRIS: Looking at SDWA-328, Page 7,
- 8 Lines 8 through 12, here you show the two equations to
- 9 calculate the residual salt for the NAA and the BA H3+,
- 10 correct?
- 11 WITNESS BURKE: That's correct.
- MS. MORRIS: And you have two terms labeled
- "consumptive use" and "seepage," correct?
- 14 WITNESS BURKE: That's correct.
- MS. MORRIS: Is it correct to say that these
- 16 two terms represent the amount of salt mass leaving the
- 17 budget area either the agricultural diversions or
- 18 seepage in that region?
- 19 WITNESS BURKE: The consumptive use actually
- 20 has two terms in it. Some of -- one is a withdrawal
- 21 term for the irrigation diversions, and another is
- 22 return flow. The diversion is salt lost to the system,
- 23 and return flow is the salt addition to the system.
- MS. MORRIS: Would those two have the same EC?
- 25 WITNESS BURKE: No, they don't.

- 1 MS. MORRIS: You assume that these two terms
- 2 "consumptive use" and "seepage" for the NAA and the
- 3 BA H3+ are identical, correct?
- 4 WITNESS BURKE: No, I didn't say "identical,"
- 5 but I said they're going to be similar.
- 6 MS. MORRIS: Referring to what you labeled as
- 7 "consumptive use" and "seepage" in your equation in
- 8 SDWA-328, Page 7, to compute the salt mass for these
- 9 two terms, the volume of agricultural diversions and
- 10 seepage should be multiplied by the corresponding
- 11 salinity at locations where the diversion and seepage
- 12 are occurring, correct?
- 13 WITNESS BURKE: That's correct.
- 14 MS. MORRIS: And the flow volume is the DSM-2
- 15 input and therefore is identical for the NAA and
- 16 BA H3+, correct?
- 17 WITNESS BURKE: Which flow volume are you
- 18 referring to?
- 19 MS. MORRIS: I'm looking at your testimony on
- 20 Page 3, SDWA-328, Page 3, Lines 22 through 24. You
- 21 were talking about the flow values assigned for the
- 22 three components.
- 23 WITNESS BURKE: Let me take a look at that for
- 24 a second.
- Okay. That's correct.

- 1 MS. MORRIS: Okay. And you in fact have
- 2 testified that there's a substantial increase in EC in
- 3 the South Delta area under the CWF compared to the
- 4 No Action Alternative, correct?
- 5 WITNESS BURKE: That's correct.
- 6 MS. MORRIS: Did you present the analysis
- 7 showing that the flows would be minor?
- 8 MR. RUIZ: I'm just going object to the
- 9 question as vague and ambiguous.
- 10 MS. MORRIS: Let me try to re-ask the
- 11 question.
- 12 Did you present the analysis showing that the
- 13 differences in flows would be minor?
- 14 WITNESS BURKE: No, I didn't present the
- 15 analysis because my analysis was based on the data
- 16 produced by the petitioners in their model, and to look
- 17 at the flow data in the model, they're identical.
- 18 MS. MORRIS: You used the same EC-chloride
- 19 conversion equations for the NAA and the BA H3+ in your
- 20 salt budget analysis, correct?
- 21 WITNESS BURKE: That's correct.
- MS. MORRIS: Would you say the same
- 23 EC-chloride equation could be used for conducting the
- 24 salt budget analysis for any of the CWF scenarios that
- 25 have been presented for this hearing?

- 1 WITNESS BURKE: I think there's too many
- 2 variables in order for me to analyze -- or answer that
- 3 correctly.
- 4 MS. MORRIS: I'm sorry?
- 5 WITNESS BURKE: There's too many unknowns in
- 6 just saying "all scenarios." I have to look at each
- 7 one individually to see what that scenario represents
- 8 and how it's being modeled to know whether that would
- 9 be the correct EC-chloride relationship to use for that
- 10 particular scenario.
- 11 MS. MORRIS: Okay. I just thought -- because
- 12 you said in your testimony that you would use the same
- one to make sure there was no bias due to the
- 14 conversions when comparing the CWF to the NAA, that
- 15 that would also be true for Boundary 1, Boundary --
- 16 H3+, H4, and Boundary 2; is that not accurate?
- 17 WITNESS BURKE: Well, now you're listing the
- 18 actual scenarios that I know of. Before, it was just
- 19 any scenario.
- 20 For those scenarios -- the B1, B2, H3, and
- 21 H4 -- I would probably use the same EC-chloride
- 22 scenarios for each of those.
- 23 MS. MORRIS: And looking at your testimony on
- 24 Page 4, Line 27, when you say "each source," you mean
- each component of Table 1 in SDWA-291, correct?

1 WITNESS BURKE: Let me take a look at that for

- 2 a second, please.
- 3 CO-HEARING OFFICER DODUC: Can we go back to
- 4 the table, please, Mr. Hunt.
- 5 WITNESS BURKE: Okay. I've looked at it.
- 6 MS. MORRIS: I'm sorry. Do I need to restate
- 7 the question?
- 8 WITNESS BURKE: Pardon?
- 9 MS. MORRIS: Do I need to restate the
- 10 question?
- 11 WITNESS BURKE: I'm not sure that we ever got
- 12 to a question. You were just referring --
- 13 MS. MORRIS: Oh, no. I -- no, the question
- 14 was when you -- when we're looking at Page 4 of your
- 15 surrebuttal testimony, when you say "each source," do
- 16 you mean each component that's listed on Table 1 of
- 17 SDWA-291? Is that what you mean by "each source"?
- 18 WITNESS BURKE: I believe so, yes.
- 19 MS. MORRIS: And looking at SDWA-291, Pages 10
- 20 and 11 -- let's start with 10, sorry. Equations 3, 4,
- 21 5, and 6 are what you used to convert EC to chloride,
- 22 correct?
- 23 WITNESS BURKE: That's correct.
- 24 MS. MORRIS: You used different equations for
- 25 different salt components in your analysis?

1 WITNESS BURKE: I used different equations for

- 2 different locations in my analysis.
- 3 MS. MORRIS: And you didn't use the same
- 4 equation for all the salt components because the source
- 5 of flow and salt would be different for each component
- 6 in your analysis, correct?
- 7 WITNESS BURKE: That's correct.
- 8 MS. MORRIS: And that's because the source of
- 9 water and salt at those two locations is different,
- 10 correct?
- 11 WITNESS BURKE: That's correct.
- MS. MORRIS: So if there's a large shift in
- 13 the source of water under CWF scenario compared to the
- 14 NAA for each flow component in your analysis, you
- 15 should not be using the same EC-chloride conversions,
- 16 correct?
- 17 WITNESS BURKE: If you had a large change and
- 18 the distribution of flow is from different sources at a
- 19 specific location, you would probably want to modify
- 20 your equation to reflect that. But we've looked at the
- 21 change and source components to each of these
- 22 locations, and the largest change we saw was 3/10ths of
- 23 1 percent for the Martinez flow going to Old River. We
- 24 didn't think that was a significant enough change, only
- 25 3/10ths of 1 percent, to modify the equation.

- 1 MS. MORRIS: But if, for example, the
- 2 No Action Alternative had a component of, let's say, 50
- 3 percent of Sacramento water and 50 percent San Joaquin
- 4 water and the California WaterFix had a change of
- 5 30 percent Sacramento water and 70 percent San Joaquin
- 6 water, you would necessarily need to change your
- 7 chloride concentrations, correct -- or equation?
- 8 Apologies.
- 9 MR. RUIZ: I'm going to object as incomplete
- 10 hypothetical.
- 11 CO-HEARING OFFICER DODUC: Are you able to
- 12 answer the question, Mr. Burke?
- 13 WITNESS BURKE: Yeah, if you had a large
- 14 change like that, you might want to evaluate whether or
- 15 not you had to change your EC-CL relationship. But
- 16 you'd have to look at what the different sources are
- 17 and the volume of change for each source to know
- 18 whether or not it's a significant enough change to
- 19 modify your equation.
- 20 MS. MORRIS: Okay. Looking at SDWA-291,
- 21 Figure 3, Page 12, it shows the EC-chloride conversion
- 22 equation you used for both Old River and Middle River
- 23 flow components, correct?
- 24 WITNESS BURKE: That's correct.
- 25 MS. MORRIS: And Figure 3 is an example of the

- 1 best -- what you characterize as the best fit on the
- 2 EC-to-chloride relationship that you developed for the
- 3 Middle River at Bouldin Bridge, correct?
- 4 WITNESS BURKE: It's based on the collected
- 5 data at that location that best represents the mix of
- 6 sources and the concentrations of EC and CL at that
- 7 location.
- 8 MS. MORRIS: Under "Historical Conditions"?
- 9 WITNESS BURKE: That's correct.
- 10 MS. MORRIS: And just because -- for my own
- 11 clarity so I can make sure, connecting the dots, the
- 12 line on this figure is your equation, and the dots are
- 13 the historical observations, correct?
- 14 WITNESS BURKE: That's correct.
- MS. MORRIS: And you indicate that, on this
- 16 figure, that there's an R squared of 0.94 and that you
- 17 would -- that you think it's a -- strike all of that.
- Sorry. Tongue-tied.
- 19 You indicate an R squared of 0.94. And would
- 20 you agree that that is statistically a good fit?
- 21 WITNESS BURKE: I would agree that generally
- 22 looking at the distribution of dots around the fit line
- 23 and the R squared together that looks like a good fit
- 24 to me.
- 25 MS. MORRIS: And yet some individual data

- 1 points have a fair amount of scatter, correct?
- 2 WITNESS BURKE: That's correct.
- 3 MS. MORRIS: So just as an example, if we look
- 4 at the value on the bottom of EC 400 and we look across
- 5 at the chloride on your equation, it shows it would be
- 6 the chloride at 60, correct? That's where the line
- 7 intersects with your equation?
- 8 WITNESS BURKE: That's correct.
- 9 MS. MORRIS: And visually I can see that
- 10 there's points above and below that that vary from
- 11 between 48 to 72; would you agree?
- 12 WITNESS BURKE: That's correct.
- MS. MORRIS: So there could be up to a
- 14 20 percent variation among the data points, even with a
- 15 fairly good statistical fit, correct?
- 16 WITNESS BURKE: That's what the natural
- 17 variability of EC to CL's showing us at that location.
- MS. MORRIS: So that means that the real
- 19 chloride concentrations can differ up to 20 percent at
- the 400 EC, correct?
- 21 WITNESS BURKE: Based on the collected data
- that we see here, yes.
- 23 MS. MORRIS: It appears for all data points
- 24 corresponding to EC levels below about 240 -- so if I
- 25 look at the bottom line of this figure, about 240, and

1 move up to your equation line, that the actual chloride

- 2 concentrations were higher than the estimated line,
- 3 correct?
- 4 WITNESS BURKE: For those low EC levels,
- 5 that's correct.
- 6 MS. MORRIS: So at this location, you would be
- 7 likely under-predicting the chloride concentration if
- 8 the EC values were below 240?
- 9 WITNESS BURKE: That's correct, you would be.
- 10 But you'd be applying this equation to both scenarios,
- 11 so that you wouldn't achieve any bias in your
- 12 comparison.
- 13 MS. MORRIS: And this plotting of data points
- 14 does not take into consideration any hydrological
- 15 variation, does it?
- 16 WITNESS BURKE: Yes, it does. It represents
- 17 all of the hydrological variation that's been
- 18 experienced at that point over the period of record
- 19 where data was collected.
- 20 MS. MORRIS: Right. But that's a nice
- 21 interpretation of my question. Let me try again. I
- 22 didn't ask a very clear question.
- 23 It doesn't consider differing hydrology
- 24 because it simply takes into account all the data
- 25 points. So, for example, I could not look at one point

1 and say whether or not that occurred in a dry period or

- 2 a wet period or a high flow or a low flow, could I?
- 3 WITNESS BURKE: Not from this chart alone, no.
- 4 MS. MORRIS: Okay. Thank you.
- 5 Thank you for forcing me to ask hard -- or
- 6 better questions.
- 7 Looking at SDWA-291 -- I'm sorry, we already
- 8 confirmed that's the location.
- 9 Well, let's just pull it up anyway, sorry.
- 10 SDWA-291, Figure 1, Page 8, that's the boundary
- 11 location for your salt budget area, correct?
- 12 WITNESS BURKE: That's correct.
- 13 MS. MORRIS: And one of these boundaries is
- 14 labeled "Old River." Do you see that?
- 15 WITNESS BURKE: Yes, I do.
- 16 MS. MORRIS: Is it correct that you used the
- 17 same EC-chloride conversion you developed for Middle
- 18 River to calculate the salt flux at Old River?
- 19 WITNESS BURKE: Yes, I did.
- 20 MS. MORRIS: Do you have any evidence in your
- 21 testimony to show that the EC-chloride relationship at
- 22 Old River is identical to the Middle River location?
- 23 WITNESS BURKE: I don't have any evidence in
- 24 my testimony to say that they are identical, but I
- 25 believe they are comparable in my professional opinion.

- 1 MS. MORRIS: But you didn't show that analysis
- 2 in any of your testimony for Part 2 or this surrebuttal
- 3 testimony, correct?
- 4 WITNESS BURKE: No, I didn't.
- 5 MS. MORRIS: And similarly, you used the
- 6 equation for Vernalis and Fern Cut locations -- the
- 7 same, correct?
- 8 WITNESS BURKE: That's correct.
- 9 MS. MORRIS: In SDWA-328, Page 5, Lines 5 to 6
- 10 you're referring to Figures 3 of DWR-932; is that
- 11 correct?
- 12 WITNESS BURKE: That's correct.
- 13 MS. MORRIS: Is it correct that you're saying
- 14 the largest change in the monthly average percentage
- 15 contribution for Martinez is 0.1 to 0.2 percent?
- 16 WITNESS BURKE: That's correct.
- 17 MS. MORRIS: And you believe this small change
- 18 is not going to affect the EC-chloride relationship,
- 19 correct?
- 20 WITNESS BURKE: No, it's not going to change
- 21 EC-chloride relationship significantly.
- MS. MORRIS: And looking at DWR-932, Figure 3
- 23 on Page 11 -- okay. Thanks.
- 24 Looking at this figure, it shows the long-term
- 25 average monthly Martinez contributions for Boun- --

- 1 H3 -- I'm sorry, H -- Boundary 1, H3, H4, and
- 2 Boundary 2, correct?
- 3 WITNESS BURKE: That's correct.
- 4 ATTORNEY AT PODIUM: And this obviously
- 5 doesn't include CWF H3+, correct?
- 6 WITNESS BURKE: That's correct.
- 7 MS. MORRIS: Would you agree that the Martinez
- 8 contribution represents the effects of sea water?
- 9 WITNESS BURKE: I'm not sure what you mean my
- 10 "effects."
- 11 MS. MORRIS: In DSM-2, isn't Martinez
- 12 considered the boundary for ocean water?
- 13 WITNESS BURKE: That's correct.
- MS. MORRIS: So let's focus on the comparison
- of -- in this figure of NAA to H3, so NAA being blue,
- 16 and H3 being the green.
- 17 Looking at the month of November between the
- 18 blue and the green line, do you agree there's about a
- 19 0.5 percent difference in the Martinez contribution
- 20 between the NAA and the H3?
- 21 WITNESS BURKE: That's true. It looks like it
- 22 is about a 0.5.
- 23 MS. MORRIS: Would you agree for the month of
- 24 January and August the difference is about 0.3 percent?
- 25 WITNESS BURKE: It could be. It's hard to

- 1 read from the graph, but I could see it's generally
- 2 around that.
- 3 MS. MORRIS: So in fact, then, isn't it true
- 4 that your statement on Page 5, Lines 5 to 9 is not
- 5 correct?
- 6 WITNESS BURKE: It's a little low, I agree.
- 7 MS. MORRIS: Do you agree that a small change
- 8 in contribution from Martinez, say 0.5 percent, which
- 9 represents the sea water contribution, may have a
- 10 not-so-small effect on EC and chloride?
- 11 WITNESS BURKE: It will have a larger effect
- 12 on chloride and a much smaller effect on the
- 13 EC-chloride relationship. And my analysis takes into
- 14 account that effect on EC.
- MS. MORRIS: Okay. Looking at -- sorry,
- 16 Mr. Hunt. We're going to have to go on a little
- 17 adventure here. State Water Resources Control Board
- 18 102. And it's going to be in Chapter 8. So you can
- 19 go -- yeah, perfect, and then Chapter 8. Water
- 20 Quality, top one. Thank you. Perfect. And then it's
- 21 PDF Page 171. Perfect. Okay.
- 22 Looking at this SWRCB-102, do you see that the
- 23 San Francisco Bay, which is at Martinez, shows a range
- 24 of average chloride between 3,757 and 9,414 milligrams
- 25 per liter?

1 MR. RUIZ: I'm going to object to this line of

- 2 questioning. This is getting outside of his -- of the
- 3 scope of his surrebuttal testimony. I don't think he
- 4 referred to this or relied on this or mentioned this in
- 5 his testimony.
- 6 CO-HEARING OFFICER DODUC: Ms. Morris.
- 7 MS. MORRIS: I'm testing -- he is challenging
- 8 Dr. Chilmakuri's challenge or criticism of his
- 9 testimony about the proper chloride concentration. And
- 10 what I'm trying to demonstrate here is that there are
- 11 differences in equations and that there are differences
- 12 between the contributions from the ocean at Martinez
- 13 that he did not take into account.
- 14 CO-HEARING OFFICER DODUC: Overruled,
- 15 Mr. Ruiz. She may pull up documents in her
- 16 cross-examination.
- 17 WITNESS BURKE: Could you repeat the question?
- MS. MORRIS: Sure. This shows a range of
- 19 average chloride concentration at Martinez between
- 20 3,757 and 9,414 milligrams per liter, correct?
- 21 WITNESS BURKE: That's correct.
- MS. MORRIS: Assuming a value of
- 23 9,414 milligrams per liter chloride concentration at
- 24 Martinez, would you agree that a 0.5 percent of
- 25 Martinez contribution, based on the concentration at

- 1 that high level, is approximately 47 milligrams per
- 2 liter?
- 3 WITNESS BURKE: I can't do the calcs in my
- 4 head, but --
- 5 MS. MORRIS: Do you have a phone you can do
- 6 it, or -- do you agree that essentially, if I take
- 7 9,414 and times it by 0.5 percent that I'm going to get
- 8 roughly 47 milligrams per liter chloride?
- 9 MR. RUIZ: I'm going to object, incomplete
- 10 hypothetical.
- 11 MS. MORRIS: I'm sorry.
- MR. RUIZ: Whether or not she can pull up
- 13 documents, it's still outside the scope of his
- 14 surrebuttal testimony.
- 15 CO-HEARING OFFICER DODUC: She is allowed to
- 16 test the basis of his testimony by pulling up her
- 17 exhibit, so. . .
- But I believe the witness has answered he
- 19 can't do math that fast in his head, Ms. Morris.
- 20 WITNESS BURKE: But I'll concede to your
- 21 calculation.
- MS. MORRIS: What about at 1 percent? That
- 23 would be more -- easier.
- 24 WITNESS BURKE: Okay.
- MS. MORRIS: Easier math.

- 1 WITNESS BURKE: Okay.
- 2 MS. MORRIS: What would be the change in the
- 3 chloride concentration?
- 4 WITNESS BURKE: So at 1 percent, that would be
- 5 944 to 1.
- 6 MS. MORRIS: So -- and then we have to divide
- 7 that by a hundred, so it would be 9.4.
- 8 WITNESS BURKE: Okay.
- 9 MS. MORRIS: 94. I should never do math. 94,
- 10 correct?
- 11 WITNESS BURKE: That's correct.
- 12 MS. MORRIS: And DWR -- I'm sorry. SWRCB-102,
- 13 it also shows that the San Joaquin River chloride
- 14 concentration, if we're looking at that column, it
- seems, on the mean, 81.4, it's roughly 12 times greater
- 16 than the Sacramento River correct?
- 17 WITNESS BURKE: That's correct.
- 18 MS. MORRIS: And referring to -- if you can
- 19 look at STKN-26. And I have printed these out. If you
- 20 want to pull it up -- but I wanted him to be able to
- 21 compare.
- 22 In this -- if you could go to PDF page --
- 23 CO-HEARING OFFICER DODUC: Could we establish
- 24 what this is and whether Dr. Burke is familiar with it?
- MS. MORRIS: This is Exhibit STKN-26 that is

- 1 in evidence. It's Susan Paulsen's report on the
- 2 effects of California WaterFix.
- 3 Is that what you see on the screen, Mr. Burke?
- 4 WITNESS BURKE: I see the label on the report.
- 5 MS. MORRIS: And you're familiar with DSM-2
- 6 fingerprinting, correct?
- 7 WITNESS BURKE: Yes, I am.
- 8 MS. MORRIS: And you are able to look at and
- 9 read results from DSM-2 fingerprinting, correct?
- 10 WITNESS BURKE: Yes, I am.
- 11 MS. MORRIS: So I'm going to show you some DSM
- 12 fingerprinting from this exhibit.
- 13 And if we could go to STKN-26, Page -- PDF
- 14 Page 223.
- 15 MR. RUIZ: And I'm going to object for the
- 16 record as to this as Dr. Burke -- Mr. Burke isn't
- 17 familiar with this exhibit, has not reviewed this
- 18 exhibit.
- 19 CO-HEARING OFFICER DODUC: We'll take that
- 20 into consideration.
- 21 MS. MORRIS: And I'm not -- and so this says
- 22 source fingerprinting -- source water fingerprints at
- 23 Buckley Cove, correct? On the screen?
- 24 WITNESS BURKE: Yes.
- MS. MORRIS: Okay. And what I want to do is,

- 1 if you can go also to, now, to PDF Page 225. And then
- 2 if you can focus on the -- so I want to look at the
- 3 two. And the reason I printed them out for you is the
- 4 other one that you have listed as Exhibit -- as A,
- 5 marked, is an excerpt on PDF Page 267 -- 247, sorry,
- 6 and -- of that same exhibit.
- 7 And the reason that we have to look at them
- 8 this way is that this shows the NAA on the one that's
- 9 been marked B as red, and it shows the Alternative 4A
- 10 as orange on a separate sheet. And I want to direct
- 11 your attention to -- at first to the Sacramento River
- 12 water dry year on both exhibits, which is the top left
- 13 box. Do you see those?
- 14 WITNESS BURKE: I see that.
- MS. MORRIS: Okay. The Sacramento River
- 16 contribution in the dry year for July is 20 percent
- 17 greater -- is 20 percent for the NAA, correct?
- 18 WITNESS BURKE: I'm not sure which plot you're
- 19 looking at.
- 20 MS. MORRIS: I'm looking at -- I think it's
- 21 confusing. But I'm looking at what's on the screen in
- 22 the top left corner and what's been marked in front of
- 23 you as Section B of STKN-26.
- 24 WITNESS BURKE: Okay. I see the top left
- 25 graph.

- 1 MS. MORRIS: And it shows that the
- 2 contribution of Sacramento River water at Buckley Cove
- 3 is 20 percent in July, correct?
- 4 WITNESS BURKE: That's correct.
- 5 MS. MORRIS: And if we look at what's been
- 6 marked as STKN-26, but what I've shown you as A, which
- 7 is not currently on the screen but you have in front of
- 8 you, in the top left it shows that the Alternative 4A,
- 9 that the contribution of Sacramento River water in dry
- 10 years for Alternative 4A is between 0 and 1 percent,
- 11 correct?
- 12 MR. RUIZ: Can we just slow down. I'm trying
- 13 to object for the record. I'm trying to figure out
- 14 what is A, if we're looking at the same thing.
- 15 CO-HEARING OFFICER DODUC: Mr. Ruiz, you need
- 16 to pull the microphone closer to you.
- 17 MR. RUIZ: I'm sorry. I'm objecting because
- 18 I'm not sure that we have -- we have the same
- 19 information, or at least, for the record, I'm not
- 20 clear.
- 21 This says STKN-26, and you said something
- 22 about marked as A.
- 23 CO-HEARING OFFICER DODUC: On the cover sheet
- of what she handed you there's an A and there's a B.
- MR. RUIZ: Okay.

- 1 MS. MORRIS: It's all in the same exhibit.
- 2 The reason that I printed the page is so that you can
- 3 compare the two, so it might be easier for people to
- 4 see. But I wasn't trying to -- I was trying to make it
- 5 easier, not more confusing.
- 6 CO-HEARING OFFICER DODUC: Actually, I think
- 7 Mr. Hunt has found a way to put both on the screen.
- 8 MS. MORRIS: Okay. So if you could go to --
- 9 CO-HEARING OFFICER DODUC: Actually, no. Go
- 10 to Page 245.
- 11 MS. MORRIS: 47.
- 12 CO-HEARING OFFICER DODUC: 245 on yours.
- MS. MORRIS: There you go. Okay.
- So do you need me to re-ask the question now?
- MR. RUIZ: Yes. Well, I request that you do.
- MS. MORRIS: Okay. So looking at the
- 17 Sacramento River water contribution at Buckley Cove in
- 18 the dry water year in July, it shows a 20 percent
- 19 contribution, correct?
- 20 WITNESS BURKE: That's correct.
- MS. MORRIS: For the NAA, correct?
- 22 WITNESS BURKE: For the NAA, that's correct.
- 23 MS. MORRIS: Right. But looking at the second
- 24 screen on the right, which is PDF Page 247 of the same
- 25 exhibit, for Alternative 4A, it shows that the

- 1 Sacramento contribution is somewhere between -- in
- 2 July, at about between 0 and 1 percent, correct?
- 3 WITNESS BURKE: That's correct.
- 4 MS. MORRIS: And then similarly, if we look at
- 5 the San Joaquin River on the No Action Alternative --
- 6 so the one to your left on PDF Page 225, the San
- 7 Joaquin River contribution in a dry year is -- for
- 8 July, is 45 percent under the NAA, correct?
- 9 WITNESS BURKE: In July?
- MS. MORRIS: In July.
- 11 WITNESS BURKE: About 50, actually, but --
- 12 MS. MORRIS: It's -- if you look at the line,
- 13 it's 50 -- okay. It's a little bit lower than 50.
- 14 Okay. Roughly.
- And then if we look at PDF Page 267, in July
- 16 it shows -- it's about 60 percent, correct, for the
- 17 Alternative 4A?
- WITNESS BURKE: Close to 60, yes.
- 19 MS. MORRIS: So the contribution from
- 20 Sacramento and San Joaquin and for Martinez change
- 21 under the CWF is different than the NAA, correct?
- 22 WITNESS BURKE: That's correct.
- MS. MORRIS: So it's not possible that
- 24 99 percent of the flow will have the same EC-chloride
- 25 relationship as the NAA, correct?

1 WITNESS BURKE: I'm not sure if I understand

- 2 the statement.
- 3 MS. MORRIS: In your testimony, 328, Page 5,
- 4 Lines 6 through 9, you say that the small change -- the
- 5 small change can affect the salinity concentration, but
- 6 changing 0.1 percent of the data is not going to have a
- 7 significant effect on the development of the
- 8 EC-salinity relationship, especially considering that
- 9 99.8 to 99 percent of the flow will have the same
- 10 EC-chloride relationship.
- 11 So looking at what we've looked at, the
- 12 different sources, it's not possible that 99 percent of
- 13 the flow will have the same EC-chloride relationship
- 14 between the BA H3+ and the NAA, correct?
- 15 WITNESS BURKE: No, you're confusing the EC
- 16 calculations, which take into the -- the difference in
- 17 the volume of flow comes from the different sources
- 18 which we did take into account in our analysis. You're
- 19 confusing that with the EC-chloride relationship in
- 20 order to produce chloride from an EC value.
- 21 Now, the dominant flow in there will be what
- 22 flow is driving that EC-chloride relationship. If you
- 23 put 1 or 2 or 3 percent Martinez flow in there, you
- 24 will dramatically increase the EC, but you're not going
- 25 to dramatically change the EC-chloride relationship.

1 And we are accounting for that increase in EC

- 2 due to the change the in flow source, but it's not
- 3 having a dramatic effect on the EC-chloride
- 4 relationship.
- 5 MS. MORRIS: If the salt mass associated with
- 6 the ag diversions and seepage for the NAA and BA H3+ is
- 7 different and they were accounted for in your analysis,
- 8 when is the 30,000 metric tons you were reporting
- 9 change?
- 10 WITNESS BURKE: Not at all. What we're seeing
- 11 here is the actual change in what's the residual of
- 12 that salt budget from the different scenarios. How
- 13 that salt is affected by seepage, drainage, or
- 14 irrigation usage or consumptive use is intrinsic to
- 15 that residual value.
- 16 We're only interested in what the difference
- 17 in that residual is. We're not trying to evaluate how
- 18 that residual, for any different scenario, is being
- 19 utilized.
- 20 MS. MORRIS: Let me take a step back and see
- 21 if I can understand this. What I was pointing out to
- 22 you is that there appears to be significant changes, up
- 23 to 20 percent, in the sources of the water in different
- 24 scenarios, correct?
- 25 WITNESS BURKE: That's correct. And we're

- 1 taking that into account in our analysis.
- MS. MORRIS: But you didn't change the
- 3 chloride conversion calculation. You used the same
- 4 one, correct?
- 5 WITNESS BURKE: For the sources that we've
- 6 looked at, the change in the source value for each of
- 7 the calculation points for the salt budget were not
- 8 significant enough to have a dramatic effect on the
- 9 EC-chloride relationship.
- 10 It does change the EC, but it does not have a
- 11 significant change on EC-CL relationship given the
- 12 dominant amount of water coming from other sources.
- MS. MORRIS: Looking at SDWA-328, Page 9,
- 14 Lines 14 through 16, here you're referring to the
- 15 SDW -- sorry. You're referring to SDWA-78 and stating
- 16 that, during the summer period, salinity values for H3
- 17 scenario is higher than the NAA 90 percent of the time,
- 18 correct?
- 19 WITNESS BURKE: That's correct.
- 20 MS. MORRIS: But if we could please pull up
- 21 SDWA-78, Page 22.
- 22 CO-HEARING OFFICER DODUC: If you go to "view"
- 23 you should be able to rotate it.
- 24 MS. MORRIS: I'm looking for Page 22 -- PDF
- 25 Page 24. Sorry. That might help you. That's not the

1 right one. There you go. Now you have to rotate it

- 2 back.
- 3 Okay. Looking at this table, is this where
- 4 you got the information about the increase in the EC
- 5 being 90 percent?
- 6 WITNESS BURKE: For H3+ -- for H3, that's
- 7 correct.
- 8 MS. MORRIS: And that's just for summer of
- 9 1977, correct?
- 10 WITNESS BURKE: That's correct.
- MS. MORRIS: So your statement was
- 12 specifically about Old River at Tracy site, too,
- 13 correct?
- 14 WITNESS BURKE: That's correct.
- MS. MORRIS: And so essentially you're making
- 16 a generalized statement as to one year and one
- 17 location?
- 18 WITNESS BURKE: Well, we're saying that the
- 19 salinity levels could be as high as 90 percent.
- 20 MS. MORRIS: But it's based on one year and
- 21 one location, correct?
- 22 WITNESS BURKE: For a worst case scenario,
- 23 that's correct.
- MS. MORRIS: And looking at SDWA-328, Page 9,
- 25 Lines 14 through 16 -- oh, I'm sorry. I want to skip

- 1 that.
- Actually, if -- I think I'm almost done, but I
- 3 need to go through my notes. If we could take a quick
- 4 break and then I could finish up, that would be
- 5 helpful.
- 6 CO-HEARING OFFICER DODUC: Okay. We'll take a
- 7 quick break until -- how much time do you need, 11:50?
- 8 MS. MORRIS: Yeah.
- 9 CO-HEARING OFFICER DODUC: Okay.
- 10 (Recess taken from 11:44 to 11:50)
- 11 CO-HEARING OFFICER DODUC: All right. We're
- 12 back.
- 13 MS. MORRIS: I'm going to try this, and then I
- 14 may have to turn over to my technical advisor.
- 15 CO-HEARING OFFICER DODUC: Okay.
- 16 MS. MORRIS: Okay. So SDWA-328, if you could
- 17 pull that up on Page 7.
- 18 And then, Mr. Burke, just to confirm, I think
- 19 that you testified earlier that your equation does take
- 20 into consideration ag diversion, seepage, and return
- 21 flows from ag diversions because those are necessarily
- 22 the outputs of this equation, correct, the residual?
- 23 WITNESS BURKE: The way we've set our equation
- 24 up is to have the residual equal to the net consumptive
- 25 use and seepage and remaining salt within the channel.

- 1 MS. MORRIS: So that means, just looking at
- 2 this -- I'm trying to simplify this. So looking at the
- 3 consumptive use portion between the NAA and the
- 4 CWF BA H3+, you essential- -- I think you testified
- 5 that the consumptive use, essentially, you accounted
- 6 for that as the same. So in between these formulas,
- 7 that would both be the same?
- 8 WITNESS BURKE: No, I accounted for the flows
- 9 for the consumptive use as being the same. But the
- 10 salinity for the consumptive use changes depending on
- 11 the parameter that you're evaluating within the
- 12 consumptive use.
- MS. MORRIS: Right. Okay. So let me -- so
- 14 the flows are the same, but it's true you did testify
- 15 that the ECs would be different?
- 16 WITNESS BURKE: The EC for the irrigation
- 17 diversion would be based on the EC in the channel at
- 18 the time the diversion occurs, but the EC for the
- 19 return flow is a fixed value within the DSM-2 model.
- 20 MS. MORRIS: And it doesn't change between the
- 21 two equations, correct, because it's an input?
- 22 WITNESS BURKE: That's correct.
- 23 MS. MORRIS: So if I understand your testimony
- 24 correctly, if I go to the equal side, the
- 25 48,693 million tons and the 18,370 million tons --

- 1 metric tons, that includes the ag diversion, the
- 2 seepage, the return flows, and the existing salts that
- 3 are leaving from -- and the change in the existing
- 4 salts from the area, correct?
- 5 WITNESS BURKE: It's the existing salt within
- 6 the channels in South Delta.
- 7 MS. MORRIS: So it includes all four of those
- 8 things?
- 9 WITNESS BURKE: That's correct.
- 10 MS. MORRIS: So how can you tell that
- 11 the 18 -- the 30 metric tons in your equation is all
- 12 attributable solely to the California WaterFix?
- 13 WITNESS BURKE: Because it's looking at those
- 14 flow components of the WaterFix that are affecting
- 15 salinity that enter or exit the South Delta area.
- 16 MS. MORRIS: So it doesn't look -- you're only
- 17 looking at the flow components; you're not looking at
- 18 the salt components?
- 19 WITNESS BURKE: Well, the flow and salt
- 20 components that come together at the boundaries of the
- 21 South Delta study area.
- MS. MORRIS: Okay. I'm turning it over.
- DR. CHILMAKURI: Mr. Burke, on Line 20, you're
- 24 showing that the salt mass change for -- under WaterFix
- 25 compared to the No Action Alternative will be

- 1 30,000 metric tons, correct?
- 2 WITNESS BURKE: That's correct.
- 3 DR. CHILMAKURI: Now, scroll back up to
- 4 Lines 8 through 12, please.
- 5 And you just said that the salinity in the
- 6 South Delta is changing, correct?
- 7 WITNESS BURKE: That's correct.
- 8 DR. CHILMAKURI: So the salt load associated
- 9 with the ag diversions is also changing, correct?
- 10 WITNESS BURKE: Not necessarily. If the -- it
- 11 can change if the salinity within the channel changes,
- 12 so the diversion would pull more salt in if the
- 13 salinity in the channel was increasing.
- DR. CHILMAKURI: So which is correct, then?
- 15 Is the salinity changing or the salt load is not
- 16 changing? Which one of the two statements that you've
- 17 just made is correct?
- 18 MR. RUIZ: I'm going to object as asked and
- 19 answered.
- 20 CO-HEARING OFFICER DODUC: Mr. Ruiz, please
- 21 allow Mr. Burke to answer because it will help me.
- 22 WITNESS BURKE: Actually, I was going to ask
- 23 you if you could repeat the question, please.
- 24 DR. CHILMAKURI: So you just told me that the
- 25 salinity in the South Delta channels will increase,

- 1 correct?
- WITNESS BURKE: That's correct.
- 3 DR. CHILMAKURI: But you're also saying that
- 4 the salt load associated with the ag diversions in the
- 5 South Delta channels would not change, correct?
- 6 WITNESS BURKE: No, I didn't say that.
- 7 DR. CHILMAKURI: You said it may not change,
- 8 correct?
- 9 WITNESS BURKE: The return flow will not
- 10 change, but the irrigation diversion will -- could
- 11 change.
- DR. CHILMAKURI: Okay. So the irrigation
- 13 diversion salt load will change is what you're saying,
- 14 correct?
- 15 WITNESS BURKE: I'm saying it could change.
- DR. CHILMAKURI: It could change. Okay.
- 17 That's fine.
- 18 So how do you know that the 30,000 metric tons
- 19 that you're showing on Line 20 is entirely related to
- 20 WaterFix if the ag diversions salt load could change?
- 21 WITNESS BURKE: Because the residual for the
- 22 project alternative already takes into account what the
- 23 ag diversions will be for that particular scenario and
- 24 the salinity that's in the channel for that scenario.
- 25 So now we're just taking the difference between those

1 scenarios, which then comes out to be 30,000 metric

- 2 tons.
- 3 How that 30,000 metric tons is divided among
- 4 the residual -- is more of it going into the irrigation
- 5 diversions, is more of it going into the channel
- 6 salinity -- we haven't siphoned or filtered those two
- 7 components out. We just know that somehow, between
- 8 consumptive use, seepage, and channel salinity, they're
- 9 going to have to accept 30,000 more metric tons divided
- 10 over those components.
- 11 MS. MORRIS: I think I have just one more
- 12 question.
- I think about five to six more questions.
- 14 If we could pull up SDWA-328, Page 8. So,
- 15 actually, we've already establish that. So maybe we'll
- 16 go to -- the additional amount of 30,000 metric tons of
- 17 salt over time should lead to an increase in NC -- in
- 18 EC within your defined salt budget equation, correct?
- 19 WITNESS BURKE: Could you rephrase, that
- 20 please?
- 21 MS. MORRIS: I'll restate it. The additional
- 22 amount of salt, over time, should lead to an increase
- 23 in EC within your defined salt budget region, correct?
- 24 WITNESS BURKE: I would expect that to happen,
- 25 that's correct.

1 MS. MORRIS: And in fact, over time, if your

- 2 analysis is accurate, one should expect a larger and
- 3 larger accumulation of salt in the salt budget region
- 4 under the BA H3+ as compared to the No Action
- 5 Alternative, correct?
- 6 WITNESS BURKE: Not necessarily because, as I
- 7 stated earlier, there are three components where that
- 8 salt could go. It could go into channel salinity; it
- 9 could be sucked up by irrigation diversions; or it
- 10 could go down into seepage. How it's split among those
- 11 three components, I don't really know; we didn't filter
- 12 that out.
- But if it stays as salinity within the
- 14 channel, it's an impact; if it gets sucked into the
- 15 irrigation diversions and goes on the fields, that's an
- 16 impact. So we just left that all together as potential
- 17 impacts due to the increase in salinity within South
- 18 Delta area.
- 19 MS. MORRIS: We can -- to oversimplify it,
- 20 inside the box, you looked at what's coming in and
- 21 what's going out, but you didn't determine what was
- 22 going on in the box, correct?
- 23 WITNESS BURKE: Yeah. There's three little
- 24 balls bouncing around in that box. And we didn't
- 25 determine which of those three little balls got the

- 1 increase in salinity or increase in salts.
- MS. MORRIS: And you looked at an 82-year
- 3 DSM-2 simulation from 1922 to 2003, correct?
- 4 WITNESS BURKE: That's correct.
- 5 MS. MORRIS: And if we can look at SDWA-328,
- 6 on Page 10, Figure 1.
- 7 You provided this figure showing the
- 8 difference in EC between the H3+ -- BA H3+ and the NAA
- 9 based on DSM-2 results for water year 1973, correct?
- 10 WITNESS BURKE: I believe this particular year
- 11 was based on the CWF H3+ and the NAA. It was produced
- 12 after the CWF H3+ model was available.
- MS. MORRIS: So you do have modeling for
- 14 CWF H3+, and you are relying it on in [sic] this
- 15 testimony? This is not the BA H3+?
- 16 WITNESS BURKE: The modeling that went into
- 17 the salt budget is the BA Preferred Alternative for the
- 18 WaterFix scenario at that time.
- 19 This figure was brought into the testimony to
- 20 show that there are going to be increases in salinity
- 21 within the channel system based on the residual salt
- 22 that's left over from salt budget.
- MS. MORRIS: Okay. So with that correction,
- 24 you're showing CWF H3+ and NAA based on the DSM-2
- 25 results for water year 1973?

- 1 WITNESS WILDER: That's correct.
- 2 MS. MORRIS: And from the start of the DSM-2
- 3 simulation in 1922, 1973 is the 51st year in that
- 4 simulation, roughly? Correct?
- 5 WITNESS BURKE: Roughly.
- 6 MS. MORRIS: Okay. Good. Based on your
- 7 analysis, by this time, roughly 30,000 metric tons per
- 8 year -- so times 51, which is approximately 1.5 million
- 9 metric tons of additional salt -- would have
- 10 accumulated in the South Delta region under the BA H3+
- 11 versus the NAA, correct?
- 12 WITNESS BURKE: Not necessarily because, as we
- 13 mentioned earlier, there's three components. That
- 14 salt, as it accumulates within the South Delta, is
- 15 being taken out through seepage; some of it's being
- 16 taken out of the system through irrigation diversions;
- 17 some of it remains the system as increased salinity,
- 18 which is being -- what's shown here on this figure.
- 19 MS. MORRIS: But we can't really account for
- 20 that in your salt budget analysis because those three
- 21 dots that are bouncing around in the box, you didn't do
- 22 any analysis, correct?
- MR. RUIZ: That's been asked and answered
- 24 multiple times.
- 25 CO-HEARING OFFICER DODUC: And since it's a

- 1 complicated matter, let's confirm that, please,
- 2 Mr. Burke.
- 3 WITNESS BURKE: No, we didn't try to parse out
- 4 what was being absorbed into the channel versus what
- 5 was being drawn into the field versus what was seeping
- 6 into the ground below the Delta because we felt that
- 7 all these of those components are all impacts in their
- 8 own right and therefore can't be lumped together as
- 9 impacts due to the H3+ model.
- 10 MS. MORRIS: Looking again at Figure 1, do you
- 11 see in December of 1972 that there is, in fact, a very
- 12 small difference between EC between the CWF H3+ and the
- 13 NAA at this location?
- 14 WITNESS BURKE: Could you repeat what month
- 15 that was?
- 16 MS. MORRIS: It's December, 1972. It's the
- 17 one that is -- has basically a flat line at zero.
- 18 WITNESS BURKE: Yeah, I see that. Okay.
- MS. MORRIS: Can you answer the question?
- 20 WITNESS BURKE: I'm sorry. What -- can you
- 21 repeat the question?
- MS. MORRIS: For -- for -- I'm sorry.
- Isn't it true that, in December, there's
- 24 basically a very small difference in the EC between the
- 25 CWF H3+ and the No Action Alternative?

1 WITNESS BURKE: For that particular month,

- 2 that's correct.
- 3 MS. MORRIS: And at that location?
- 4 WITNESS BURKE: And at that location.
- 5 MS. MORRIS: And, in fact, for a short period,
- 6 for the month of June and July in this graph -- in this
- 7 figure, CWF H3+ is actually lower in EC as compared to
- 8 the No Action Alternative?
- 9 WITNESS BURKE: That is correct. And that's
- 10 why we use monthly averages because some years are
- 11 going to have a higher influx of salt and some years
- 12 are going to have a lower influx of salt resulting in
- 13 different salinity concentrations within the channel.
- 14 MS. MORRIS: Looking at SDWA-291, Table 3 and
- 15 Table 4. These are monthly -- these show monthly value
- 16 for an 82-year average, correct?
- 17 WITNESS BURKE: These are mean monthly values
- 18 for the 82-year.
- 19 MS. MORRIS: I'm sorry. Each monthly value is
- 20 an 82-year average though, correct?
- 21 WITNESS BURKE: That's correct.
- MS. MORRIS: And looking at Page -- your
- 23 testimony 328, Page 10, Lines 24 to 25, if the averages
- 24 for two scenarios are not showing differences, doesn't
- 25 this mean that there are years with lower salinity even

- 1 if some of the years show increases?
- 2 WITNESS BURKE: Can you repeat that again,
- 3 please.
- 4 MS. MORRIS: Looking at your testimony, 329,
- 5 Page 10, Lines 24, 25.
- 6 WITNESS BURKE: Okay.
- 7 MS. MORRIS: If the averages for two scenarios
- 8 are not showing differences, doesn't that mean that
- 9 there are years with lower salinity even if some years
- 10 show increases in salinity?
- 11 WITNESS BURKE: I'm sorry. I'm not sure I'm
- 12 understanding the question.
- DR. CHILMAKURI: Mr. Burke, you showed one
- 14 example of the year from 1940 to 1973 as salinity
- increasing under CWF H3+, correct?
- 16 WITNESS BURKE: Just as an example of showing
- 17 increased salinity in the South Delta.
- DR. CHILMAKURI: And you're saying in this
- 19 testimony right here that, if you average on a
- 20 long-term, the differences would be minor, right?
- 21 WITNESS WILDER: It all depends on how you're
- 22 using those averages. If you're looking at
- 23 instantaneous values, an average might not give you a
- 24 correct value.
- 25 But when you're looking at a cumulative

- 1 aggregation of salt that occurs from month to month,
- 2 then it's actually more appropriate to use an average
- 3 monthly value.
- 4 DR. CHILMAKURI: So your use of average is
- 5 different than what I used?
- 6 WITNESS BURKE: Yeah, because --
- 7 MR. RUIZ: I'm just going object as vague and
- 8 ambiguous.
- 9 CO-HEARING OFFICER DODUC: Actually, it might
- 10 be helpful if Mr. Burke could clarify, please.
- 11 WITNESS BURKE: It is. And the reason why
- 12 it's more appropriate to use averages when you're
- 13 looking at this is because we are looking at a
- 14 cumulative aggregation of values as you go from month
- 15 to month through the year.
- 16 You're taking these averages and saying this
- 17 is just going to be an instantaneous value and
- 18 therefore there's no impact based on that averaging.
- 19 The impact that we're looking at here comes
- 20 from the accumulation of salt over the time period that
- 21 we're running our model for.
- 22 DR. CHILMAKURI: But before you accumulated
- 23 that month to month to month, you actually averaged the
- 24 data for 82 years, correct, for mutual months?
- 25 WITNESS BURKE: That's correct.

- DR. CHILMAKURI: Just going back to your --
- 2 Page 7 of your testimony and the equations on Lines 8
- 3 through 12.
- 4 CO-HEARING OFFICER DODUC: I see this equation
- 5 in my sleep now.
- 6 DR. CHILMAKURI: Just one question, really.
- 7 Dr. Burke, would the EC-chloride conversions
- 8 be the same for all the ag diversions in the South
- 9 Delta region?
- 10 WITNESS BURKE: Probably not because there are
- 11 different locations.
- DR. CHILMAKURI: Okay. Thank you.
- MS. MORRIS: We're done, thanks.
- 14 CO-HEARING OFFICER DODUC: Thank you.
- Between Ms. Des Jardins, Ms. Meserve, and
- 16 Mr. Jackson?
- MR. JACKSON: No questions.
- MS. MESERVE: I don't have questions.
- 19 CO-HEARING OFFICER DODUC: Ms. Des Jardins
- 20 then.
- 21 All right. Thank you, Mr. Hunt.
- Ms. Des Jardins requested 15 minutes.
- MS. DES JARDINS: Thank you. Mr. --
- 24 CO-HEARING OFFICER DODUC: Microphone, please.
- 25 CROSS-EXAMINATION BY MS. DES JARDINS

- 1 MS. DES JARDINS: Deirdre Des Jardins with
- 2 California Water Research. Good afternoon, Mr. Burke.
- 3 Mr. Hunt, can you bring up Exhibit DWR-1217,
- 4 Page 29.
- 5 And Mr. Burke, you criticize Dr. Chilmakuri's
- 6 Figure 11 in his rebuttal testimony, correct? On Page
- 7 16 of your testimony.
- 8 CO-HEARING OFFICER DODUC: Ms. Des Jardins,
- 9 you really need to bring the microphone in.
- 10 MS. DES JARDINS: I apologize.
- And this is on Page 16 of your testimony,
- 12 you've criticized this. And you call this figure a
- 13 classic example of the improper use of statistics,
- 14 correct?
- 15 WITNESS BURKE: That's correct because the
- 16 figure is looking at long-term averages to try to
- 17 evaluate impacts. So now long-term averages, in that
- 18 respect, would not give you a correct evaluation of
- 19 whether an impact is occurring or not.
- 20 MS. DES JARDINS: And you state that -- and
- 21 you consider it surprising that any differences are
- 22 showing after all the long-term averaging?
- 23 WITNESS BURKE: That's correct.
- MS. DES JARDINS: And I believe you compared
- 25 it -- you said, "If I performed the same type of gross

- 1 averaging analysis on stream flow data in California,
- 2 it would indicate that California's history has been
- 3 devoid of floods or droughts"?
- 4 WITNESS BURKE: It kind of an artifact of what
- 5 happens when you start averaging values. When you
- 6 start looking at averages for values, you cut off the
- 7 high values and you cut off the low values.
- 8 And when you're looking at -- specifically,
- 9 for my example in terms of floods, you want to evaluate
- 10 what the impacts are from a flood. But if you average
- 11 all those values, you won't see that impact because
- 12 there will be no high values. You've trimmed all those
- 13 high values out.
- 14 And that kind of differs from how we did our
- 15 averages is that we weren't looking at instantaneous
- 16 values to try to determine whether or not a value had
- 17 an impact. We summed those values up over an 82-year
- 18 period. We're looking at an aggregate net production
- 19 of salt in the system rather than looking at just an
- 20 average value for salt.
- 21 MS. DES JARDINS: Thank you. Also on Page 5
- 22 of your testimony, you responded to Mr. Chilmakuri's
- 23 criticism that -- we can pull it up if you would like.
- It's Exhibit SDWA-328. And I'd like to go to
- 25 Page 5 at Line 19 to 20.

1 And you respond to Mr. Chilmakuri's criticism

- 2 that an accurate salt flux analysis requires much more
- 3 precision than you utilized, correct?
- 4 WITNESS BURKE: That's what he stated, that's
- 5 correct.
- 6 MS. DES JARDINS: And I believe your expressed
- 7 opinion that any inherent inaccuracy in the data you
- 8 used in your salt budget analysis is attributable to
- 9 inaccuracies in the DSM-2 model itself?
- 10 WITNESS BURKE: That's correct because we were
- 11 just using the output from the DSM-2 model. So if
- 12 there are inaccuracies in the salinity or flow for any
- 13 of these locations, that same inaccuracy would have
- 14 carried over to all the other salinities analyses that
- 15 have been conducted as part of this project.
- 16 CO-HEARING OFFICER DODUC: Ms. Morris.
- 17 MS. MORRIS: I just want to object that that
- 18 misstates the testimony because it was more than just
- 19 looking at the DSM-2. He used chloride conversions, so
- 20 it's not the exact result.
- 21 CO-HEARING OFFICER DODUC: Hold on. We are
- 22 going through and just asking Mr. Burke to affirm his
- 23 testimony. Is there a specific question you have?
- 24 MS. DES JARDINS: Yeah. So I did want to ask
- 25 you a little further about inaccuracies in the model.

- 1 So Mr. Burke, wasn't the DSM-2 model developed in the
- 2 late 1990s?
- 3 CO-HEARING OFFICER DODUC: Outside the scope.
- 4 MS. DES JARDINS: Ms. -- the -- DWR and the
- 5 State Water Contractors were allowed to explore the
- 6 inaccuracies in the model. And I wanted to ask him
- 7 about that.
- 8 CO-HEARING OFFICER DODUC: I didn't even hear
- 9 that last mumble.
- 10 MS. DES JARDINS: And I wanted to ask
- 11 Mr. Burke about another source of inaccuracy.
- 12 CO-HEARING OFFICER DODUC: How does that tie
- 13 into the statement that you -- that you first
- 14 referenced in his testimony on Page 5?
- MS. DES JARDINS: That the inaccuracy in the
- 16 data would be directly attributable to the inaccuracies
- in the DSM-2 model.
- 18 CO-HEARING OFFICER DODUC: Okay. So that's a
- 19 statement.
- 20 MS. DES JARDINS: Mr. Burke, are there other
- 21 inaccuracies in the model that could contribute to
- 22 inaccuracies in the model output?
- 23 CO-HEARING OFFICER DODUC: Outside the scope.
- 24 He did not go into specific inaccuracies.
- MS. DES JARDINS: I do want to lodge an

- 1 objection to having substantially more limitations
- 2 placed on my cross-examination about the DSM-2 model.
- 3 CO-HEARING OFFICER DODUC: Mr. Burke, in your
- 4 testimony did you discuss specific inaccuracies in the
- 5 DSM-2 model itself?
- 6 WITNESS BURKE: No, I didn't.
- 7 CO-HEARING OFFICER DODUC: It's outside the
- 8 scope.
- 9 MS. DES JARDINS: And that's a very different
- 10 ruling than previously.
- 11 I will -- I did want to ask, Mr. Burke, did
- 12 you consider that, when you chose data collected at the
- 13 actual site locations to convert EC to chloride, was
- 14 this because you considered this the best available
- 15 data?
- 16 WITNESS BURKE: That's correct. Whenever
- 17 you're doing a hydrologic analysis, you always want to
- 18 try to use actual collected data at the location that
- 19 you're evaluating whenever possible.
- 20 You can do different types of modeling
- 21 analysis to try to simulate the data at these
- 22 locations, but that's introduces another level of
- 23 complexity and another potential for error. If you
- 24 have data collected there -- and luckily we did have
- 25 data collected at these locations -- it gives us much

- 1 better perspective of what the actual salinities were
- 2 that were noted at each point.
- 3 MS. DES JARDINS: Okay. Thank you. That
- 4 concludes my questions.
- 5 CO-HEARING OFFICER DODUC: Any redirect,
- 6 Mr. Ruiz?
- 7 MR. RUIZ: No redirect.
- 8 CO-HEARING OFFICER DODUC: Then I thank you,
- 9 Mr. Burke. As always, I find your work fascinating.
- 10 WITNESS BURKE: Thank you, thank you.
- 11 CO-HEARING OFFICER DODUC: At this time,
- 12 Mr. Ruiz, do you wish to move your exhibits into the
- 13 record?
- 14 MR. RUIZ: Yes, at this time, I'd like to move
- 15 SDWA-328 into the record. Our other exhibits have
- 16 already been admitted in.
- 17 CO-HEARING OFFICER DODUC: Any objections?
- 18 (No response)
- 19 CO-HEARING OFFICER DODUC: Not hearing any,
- 20 I've received it into the record.
- 21 (South Delta Water Agency Exhibit SDWA-328
- 22 admitted into the record)
- 23 CO-HEARING OFFICER DODUC: At this time, I do
- 24 believe we're at the end of surrebuttal for Part 2.
- 25 Let the record note that I just made Mr. Jackson very

- 1 happy.
- 2 Are there any matters that staff needs to
- 3 bring up? We will be working on a ruling letter with
- 4 directions with respect to closing briefs. Let me ask
- 5 Mr. Mizell, when we last asked you about the projected
- 6 date for completion of the final environmental document
- 7 supplemental, you had indicated that it would be in
- 8 December?
- 9 MR. MIZELL: Yes. And that date has not
- 10 changed, as far as I'm aware.
- 11 CO-HEARING OFFICER DODUC: All right. At that
- 12 point, then, we will expect to hear from you.
- 13 And at that point, we will provide some notice
- 14 to the parties to obtain their inputs on potential next
- 15 steps.
- 16 MR. MIZELL: Thank you. And also I believe I
- 17 committed previously, should the date change and should
- 18 we have something earlier, I'll let you know as soon as
- 19 I'm aware of it.
- 20 CO-HEARING OFFICER DODUC: All right.
- 21 Are there any other housekeeping matters?
- MR. MIZELL: When would you like
- 23 cross-examination exhibits?
- 24 CO-HEARING OFFICER DODUC: Ah, thank you. I
- 25 had forgotten about that. Today is Monday. Please

- 1 have cross-examination exhibits be submitted to us by
- 2 noon on Wednesday. And everyone may have until noon on
- 3 Friday to file any objections.
- 4 Ms. Des Jardins.
- 5 MS. DES JARDINS: Yes, I did ask about
- 6 submitting a request for correction of the hearing
- 7 record. And following the Hearing Officer's direction,
- 8 I did submit it to the court reporter.
- 9 There seemed to be some confusion. The last I
- 10 heard, they had went back to the Hearing Team. And I'd
- 11 just -- I would like some clarification on what further
- 12 steps need to be taken to have the court reporters
- 13 actually view the video because it does show that I was
- 14 the one who asked the question and not Mr. Jackson or
- 15 whoever made the motion.
- 16 CO-HEARING OFFICER DODUC: I will turn to one
- 17 of the staff to respond to that.
- MR. DEERINGER: One moment, please.
- 19 CO-HEARING OFFICER DODUC: While we get to
- that, Ms. Meserve?
- 21 MS. MESERVE: Thank you. And maybe this is
- 22 just a clarification. I'm not sure I heard correctly.
- I guess I just wanted to make clear for the
- 24 record that I would oppose any closing briefing prior
- 25 to completion of the record, including the final

1 environmental documents for this project. And I'm not

- 2 sure whether I understood if you had said that you may
- 3 be --
- 4 CO-HEARING OFFICER DODUC: I haven't said
- 5 either way, but now that you have made the objection
- 6 let's go ahead and hear your arguments, and I can get
- 7 any additional joinders or any response of petitioners.
- 8 MS. MESERVE: I think at this point I don't
- 9 have a lot of -- I mean, I think we've already
- 10 explained that the Draft Supplemental EIR has some
- 11 additional pieces to it that weren't in the Admin
- 12 Draft, and those haven't been part of these hearings
- 13 yet. There's least two additional exhibits as well as
- 14 the whole executive summary was not included in the
- 15 Admin Draft. So we haven't had that document before
- 16 us.
- 17 In addition, when a document goes to final it
- 18 includes responses to comments and may include other
- 19 changes to project. Right now, they've closed the
- 20 comment period on the CEQA review and the NEPA review
- 21 comment period has just opened. And so I could not
- 22 predict right now, standing here today, any better than
- 23 anyone what may occur between now and when the federal
- 24 and state governments may proceed to final and actually
- 25 approve these documents and the changes that have been

- 1 proposed.
- 2 And so, I guess, all I can say right now is
- 3 that I would object to having to produce closing briefs
- 4 about a project for which there still it not a complete
- 5 description of and that may still be subject to even
- 6 more changes than we have scene the Admin Draft
- 7 Supplemental EIR.
- 8 CO-HEARING OFFICER DODUC: Thank you.
- 9 Any additional input on that particular
- 10 objection?
- MS. DES JARDINS: Deidre Des Jardins,
- 12 California Water Research.
- 13 And I've -- just wanted to note that, to the
- 14 extent that we saw there was some new information in
- 15 the Supplemental Draft EIR or the Public Draft EIR and,
- 16 I think, similar to what happened with -- between the
- 17 2015 partially recirculated Draft EIR and the Final
- 18 EIR, we're likely to see significant new information.
- 19 And I would object to the Board relying on that new
- 20 information without our having a chance to respond to
- 21 it in this hearing. And --
- 22 CO-HEARING OFFICER DODUC: Ms. Des Jardins,
- 23 that will be a different objection than Ms. Meserve's.
- MS. DES JARDINS: Yeah.
- 25 CO-HEARING OFFICER DODUC: So -- and, in fact,

- 1 your objection has already been addressed. I think we
- 2 have said in writing that, when this document is
- 3 submitted, we will ask for input from the parties on
- 4 how to consider it and whether additional proceedings
- 5 are necessary.
- 6 So we will note your objection, but we're not
- 7 taking any action on it right now. What I'm asking for
- 8 input on is Ms. Meserve's objection, which is actually
- 9 more imminent at the moment.
- 10 And that is -- your objection, Ms. Meserve, is
- 11 with respect to submitting closing briefs prior to that
- 12 process of accepting the final supplemental and any
- 13 proceedings as a result of that. Okay. So that's what
- 14 I'm focusing on at the moment.
- 15 MS. DES JARDINS: Respectfully, Madam Chair, I
- 16 think it likely that an additional component of the
- 17 hearing to consider if any new information will be --
- 18 CO-HEARING OFFICER DODUC: I'm not disagreeing
- 19 with you. I'm just saying we're not there yet.
- 20 MS. DES JARDINS: Well, in that case, I would
- 21 -- it's just that I would consider the -- filing
- 22 closing briefs then before the conclusion of the
- 23 hearing, wouldn't that be premature?
- 24 CO-HEARING OFFICER DODUC: That is exactly
- 25 Ms. Meserve's objection, which I now understand you're

- 1 joining. So, thank you.
- MS. DES JARDINS: Okay.
- 3 CO-HEARING OFFICER DODUC: Mr. Jackson.
- 4 MR. JACKSON: I would just like to add, first
- 5 of all, I support what Ms. Meserve said.
- 6 CO-HEARING OFFICER DODUC: Thank you for being
- 7 clear on that.
- 8 MR. JACKSON: And I'd like to add that there
- 9 are lots of other parties who are not here today which
- 10 I'm sure would be supporting Ms. Meserve's situation.
- 11 My question is that we -- I don't mean to
- 12 start anything new here. But I'm still trying to
- 13 figure out whether the federal government's in this
- 14 project or not. And I need their environmental
- 15 documentation in order to determine that.
- And writing a brief at this point without
- 17 knowing what the federal government's documents are
- 18 going to say and what their position is going to be is
- 19 just almost impossible.
- 20 CO-HEARING OFFICER DODUC: All right. Let's
- 21 hear from Mr. Ruiz before I give petitioners a chance
- 22 to respond.
- 23 MR. RUIZ: Dean Ruiz from South Delta Water
- 24 Agencies parties.
- I join in Ms. Meserve's objection and

- 1 Mr. Jackson's comments. And in relation to that, DWR
- 2 just came out on September 20th with another economic
- 3 analysis. And in that, it simply references a CalSim
- 4 model run which all 9,000 cfs goes to the SWP.
- 5 I don't believe that model run is something
- 6 that's been before us. It's something that DWR is
- 7 obviously seriously considering. It goes way beyond
- 8 the discussion on the float approaches before.
- 9 I asked Mr. Mizell about it over the weekend,
- 10 and he responded to me this morning that he's looking
- 11 into it because I requested the model run.
- But that then it goes along with what
- 13 Mr. Jackson indicated, the federal government's
- 14 involvement or not involvement; that's one issue. But
- 15 we've got a model run that is, I think, seriously what
- 16 is -- where the project is heading. And that's not
- 17 something that's been vetted before this Board. We
- 18 haven't seen that model run. It changes things.
- 19 And I think we need to get an answer on that
- 20 before you make any of these final decisions.
- 21 CO-HEARING OFFICER DODUC: Thank you,
- 22 Mr. Ruiz.
- 23 All right. Mr. Mizell, Ms. Aufdemberge.
- MR. MIZELL: Yes. It would be the
- 25 Department's opinion that we do not need to await the

1 Final EIR/EIS in order to establish a briefing schedule

- 2 for closing briefs.
- 3 As the Hearing Officers indicated, we can
- 4 assess the Final EIR and EIS at that time, and should
- 5 the changes that are in that document be germane to
- 6 this hearing, then we can -- we can determine if it
- 7 needs to be briefed and more evidence needs to be
- 8 produced.
- 9 There's no indication at this time that
- 10 changes are going to be made that would bear on the
- 11 testimony that you've heard over the last several
- 12 years. So I don't -- I don't necessarily think it's
- 13 necessary to delay the writing of the closing briefs.
- If I might take a moment to address Mr. Ruiz's
- 15 question, the -- the economic report that he's
- 16 referencing has not been submitted as an exhibit in
- 17 this hearing, and none of the testimony that you've
- 18 heard from DWR witnesses relies upon the contents of
- 19 that report.
- 20 So I guess I would -- I would parrot
- 21 Mr. Ruiz's own objection earlier today about the
- 22 necessity to produce modeling that isn't relevant to
- 23 the testimony that's been brought before you.
- 24 At this point in time, I will be looking into
- 25 what's behind the economics report, but again, it

- 1 hasn't been a part of the testimony and exhibits
- 2 brought before you for support of the Department's
- 3 petition.
- 4 CO-HEARING OFFICER DODUC: Anything to add,
- 5 Ms. Aufdemberge?
- 6 MS. AUFDEMBERGE: So I haven't thought through
- 7 this exactly, but I just wanted to point you to there
- 8 is some precedent for additional environmental work
- 9 following a closing brief and close of evidence. And
- 10 that was in the Katrema [phonetic] hearing where there
- 11 was a limited reopener for the purposes of receiving
- 12 the final environmental document.
- 13 CO-HEARING OFFICER DODUC: As Hearing Officer,
- 14 I do recall that.
- 15 Ms. Morris.
- 16 MS. MORRIS: I would just note as well in the
- 17 Santa Ana River, we had this similar situation. And
- 18 the EIR came in and was opened up and the briefing was
- 19 done.
- 20 So my suggestion is that, I'm not opposing one
- 21 way or the other, but that we could do briefing and
- 22 that there could be an opportunity for a narrower scope
- 23 of supplemental briefing, if necessary, based on what
- 24 we find out. That way we could use our time
- 25 efficiently.

1 I agree with Mr. Mizell that the testimony is

- 2 unlikely to change from Part 1 to Part 2. And so those
- 3 issues could likely be briefed. And if there were
- 4 subsequent changes, those narrow issues could be
- 5 handled in supplemental briefing.
- 6 CO-HEARING OFFICER DODUC: Thank you.
- 7 Ms. Des Jardins.
- 8 MS. DES JARDINS: I did want to point out that
- 9 the new modeling that Mr. Ruiz just cited is directly
- 10 contradictory to testimony received by the Board in
- 11 this hearing in rebuttal. And that's the testimony on
- 12 the float analysis and the Supplemental EIR.
- So we know there is at least one set of
- 14 information for which one set of testimony on the
- 15 public draft supplemental that was received here for
- 16 which new information is available. And so I would
- 17 object to Mr. Mizell's characterization that any new
- 18 information is likely to merge. And, in fact, the
- 19 existence of such evidence has been referred as of this
- 20 date. And I would request that the Board take this
- 21 very seriously because a fundamental misrepresentation
- 22 of the modeling of the operations and the scenario is
- 23 not a valid basis for the Board's decision. Thank you.
- 24 CO-HEARING OFFICER DODUC: Ms. Meserve, along
- 25 that line, that topic, or something else?

1 MS. MESERVE: Not necessarily on the float but

- 2 on the larger concept of the efficiency was mentioned a
- 3 couple of times. So I wanted to just respond to that
- 4 briefly.
- 5 CO-HEARING OFFICER DODUC: So let me ask
- 6 Mr. Mizell if he wanted to specifically respond to
- 7 Ms. Des Jardins before we move on to Ms. Meserve.
- 8 MR. MIZELL: Yes, please. Thank you.
- 9 The economics analysis, as I understand --
- 10 CO-HEARING OFFICER DODUC: Is your microphone
- 11 on?
- 12 I think we've worn out all the microphones in
- 13 here. We actually wore out the Coastal video
- 14 equipment. That's why we had to be in here today.
- 15 MR. MIZELL: Thank you. The economics
- 16 analysis that Ms. Des Jardins is referencing has not
- 17 changed the Department's petition. As we went through
- 18 this in previous portions of this hearing, whether or
- 19 not the Department is exploring options through either
- 20 the economics analysis or other decision making within
- 21 the Department on a single-tunnel project, a State
- 22 Water Project-only project, any number of variations
- 23 that might be considered in conversations amongst the
- 24 Department staff, it has not changed the basis of this
- 25 petition.

1 We have not indicated any intent to modify the

- 2 petitioned project at this time. Where we landed on
- 3 these sorts of issues before was, until the Department
- 4 has officially modified its petition, there hasn't been
- 5 a decision in front of the Hearing Officers that would
- 6 indicate that we're modifying the project.
- 7 And I would say that the economics report and
- 8 the sensitivity analysis referred to by Ms. Des Jardins
- 9 are not clear indicators of anything in terms of the
- 10 testimony you've heard. It does not modify any of our
- 11 petitioners' witnesses or testimony or exhibits at this
- 12 point in time.
- 13 CO-HEARING OFFICER DODUC: Ms. Meserve?
- MS. MESERVE: Thank you. I just want to --
- 15 thanks.
- 16 I just want to speak briefly to the issue of
- 17 efficiency, since that was brought up by State Water
- 18 Contractors. And over the course of the past three
- 19 years, I think, despite all our efforts, I think this
- 20 hearing has been anything but efficient and that's
- 21 largely because the petition and the modeling and the
- 22 project continue to change and that we've been --
- 23 protestants have been pushed to continue putting forth
- 24 evidence and then having that evidence become
- 25 irrelevant and then having to put in new evidence and

1 then reexplain that and then be cross-examined about

- 2 why we relied on old models versus new models.
- 3 So it's created a tremendous burden, and it's
- 4 created a lot of confusion. And I would just urge the
- 5 Hearing Officers to really see if we can get the
- 6 project to settle in and then go to briefing would make
- 7 the most sense.
- 8 And even without respect to the issue of the
- 9 federal participation, which I believe is a big issue,
- 10 I think it's very important that, at this time, the two
- 11 petitioners have circulated a revised project review,
- 12 and the discretion rests with those two agencies as to
- 13 what project they will adopt and what changes they will
- 14 make and what additional mitigation measures they may
- 15 adopt in particular or other things like that.
- 16 So it's very premature to say we know what
- 17 those agencies will do and to have the parties to this
- 18 proceeding rely on what appears to be, again a moving
- 19 target for briefing, I think would just add to the
- 20 confusion and the complexity of an already really
- 21 complex record.
- 22 And I also want to make sure, like Mr. Jackson
- 23 pointed out, I mean, there's a lot of us protestants
- 24 and there's a lot of parties and any kind of -- and I
- 25 think the Board has always asked for input on this

- 1 stuff. And I think this is a perfect example of
- 2 something I want to make sure everybody had input on.
- 3 So there may be other things that I haven't thought of
- 4 today. Thank you.
- 5 CO-HEARING OFFICER DODUC: Thank you. Not
- 6 seeing anything else, we will take all that under
- 7 consideration.
- 8 The staff has a response to Ms. Des Jardins
- 9 regarding the correcting the transcripts.
- 10 MR. DEERINGER. Thank you. So, not at this
- 11 time, but at some future date, you'll get some
- 12 direction from the Hearing Officers requesting that if
- 13 there are any corrections at any point during the
- 14 hearing needed to the transcript, that those be
- 15 submitted -- any alleged errors be identified and
- 16 proposed corrections submitted, and staff will consider
- 17 those and work with the court reporter in considering
- 18 those.
- 19 And if there's any follow-up, then that
- 20 will occur in due course with the service listing
- 21 copies so everyone's aware of the corrections being
- 22 proposed to the transcript.
- 23 And then at some point later than that, there
- 24 will be a final full set of transcripts.
- 25 MS. DES JARDINS: Thank you, Mr. Deeringer. I

1 did submit back in early September, I did submit to the

- 2 hearing list.
- 3 CO-HEARING OFFICER DODUC: We have it.
- 4 MS. DES JARDINS: Thank you.
- 5 CO-HEARING OFFICER DODUC: All right. Thank
- 6 you all. It's been quite a journey since July 26,
- 7 2016. It's not over yet, but I have appreciated
- 8 everyone's participating in this effort.
- 9 I think we've learned a lot. We've, well,
- 10 learned what we know, learned what we don't know. But
- 11 we've all grown together.
- 12 And thank you especially for those who are new
- 13 to our water rights process. I know that at times it
- 14 can seem extremely -- well, I won't use adjective. But
- 15 you have all been very patient with all of our
- 16 proceedings and been responsive, at least for the most
- 17 part, to our ruling and direction, and for which we are
- 18 very much appreciative.
- 19 I am going to go ahead and -- assuming my
- 20 Co-Hearing Officer agrees -- cancel the October 4th and
- 21 5th hearing dates, which is Thursday and Friday of this
- 22 week.
- 23 I'm going to reserve October 10th and 11th for
- 24 now. We do want to discuss what we've heard today as
- 25 well as some other matters. And we will issue a ruling

1 by the end of the week with respect to what additional

- 2 next steps are required and whether or not we might
- 3 want to get together October 10th or 11th for any
- 4 further discussions.
- 5 But, again, appreciate your participation and
- 6 your input into this process. Thank you.
- 7 And with that we are -- what is the official
- 8 word. Can I say recessed or adjourned? Over with?
- 9 MR. DEERINGER: I think adjourned for today's
- 10 work.
- 11 CO-HEARING OFFICER DODUC: Adjourned for
- 12 today. All right. Thank you, all. We are adjourned
- 13 for the day. And special thank you to our court
- 14 reporters.
- 15 (Whereupon, the proceedings adjourned
- 16 at 12:37 p.m.)

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1	STATE OF CALIFORNIA)
2	COUNTY OF MARIN)
3	I, DEBORAH FUQUA, a Certified Shorthand
4	Reporter of the State of California, do hereby certify
5	that the foregoing proceedings were reported by me, a
6	disinterested person, and thereafter transcribed under
7	my direction into typewriting and which typewriting is
8	a true and correct transcription of said proceedings.
9	I further certify that I am not of counsel or
10	attorney for either or any of the parties in the
11	foregoing proceeding and caption named, nor in any way
12	interested in the outcome of the cause named in said
13	caption.
14	Dated the 10th day of October, 2018.
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17	DEBORAH FUQUA
18	CSR NO. 12948
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