

EXHIBIT B

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE STATE OF IDAHO

IN THE MATTER OF DISTRIBUTION OF)
WATER TO WATER RIGHT NOS.)
36-02356A, 36-07210, AND 36-07427)
(Blue Lakes Delivery Call).)
_____)

IN THE MATTER OF DISTRIBUTION OF)
WATER TO WATER RIGHT NOS.)
36-04013A, 36-04013B, AND)
36-07148 (SNAKE RIVER FARM);)
(Clear Springs Delivery Call).)
_____)

CONTINUED DEPOSITION OF KARL J. DREHER, P.E.

Volume II, Pages 158 - 404

November 1, 2007

REPORTED BY:

COLLEEN P. KLINE, CSR No. 345

Notary Public

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<p>1 THE CONTINUED DEPOSITION OF KARL J. 2 DREHER, P.E., VOL. II was taken on behalf of the 3 Blue Lakes Trout Farms, at the offices of the 4 Idaho Department of Water Resources, located at 5 322 E. Front Street, 6th Floor, Boise, Idaho, 6 commencing at 8:20 a.m., on November 1, 2007, 7 before Colleen P. Kline, Certified Shorthand 8 Reporter and Notary Public within and for the 9 State of Idaho, in the above-entitled matter. 10 APPEARANCES: 11 For the Twin Falls Canal Company and North Side: 12 Barker Rosholt & Simpson, LLP 13 BY MR. JOHN SIMPSON 14 1010 Jefferson Street 15 Boise, Idaho 83701 16 For United States Bureau of Reclamation: 17 Office of Attorney General 18 Deputy Attorney General 19 Natural Resources Division 20 Chief Water Resources Section 21 BY MR. PHILLIP J. RASSIER 22 BY MR. CHRIS M. BROMLEY 23 322 East Front Street 24 P.O. Box 83720 25 Boise, Idaho 83720-0098</p>	<p>1 INDEX 2 TESTIMONY OF KARL J. DREHER, P.E. PAGE 3 Examination by Mr. Steenson 162 4 Examination by Mr. Simpson 300 5 Examination by Mr. May 352 6 Examination by Ms. McHugh 361 7 Examination by Mr. Rassier 367 8 Further Examination by Mr. Steenson 370 9 Further Examination by Ms. McHugh 400 10 11 EXHIBITS 12 DESCRIPTION PAGE 13 78 - Defendants' Memorandum in Response 162 14 to Motions for Summary Judgment 15 79 - Copy of Second Amended Order, 162 16 Findings of Fact 17 80 - Copy of Downloaded Document from 162 18 the Department's Website 19 81 - Copy of Department Document of 162 20 Water Measurements 21 82 - Copy of Tables in the Draft Based 162 22 on Table in paragraph 60 of May 19th, 23 2005 Order 24 83 - Copy of Field Examination Performed 225 25 for Water Right 36-7210</p>
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<p>1 APPEARANCES (CONTINUED): 2 For Rangen, Inc.: 3 May, Sudweeks & Browning 4 BY MR. J. DEE MAY 5 1419 W. Washington 6 P.O. Box 6091 7 Boise, Idaho 83707 8 For Idaho Ground Water Appropriators, Inc.: 9 RACINE, OLSON, NYE, BUDGE & BAILEY 10 BY MR. THOMAS J. BUDGE 11 BY MS. CANDICE M. McHUGH 12 101 South Capitol Boulevard, Suite 208 13 Boise, Idaho 83702 14 For the Blue Lakes Trout Farm: 15 Ringert Clark, Chartered 16 BY MR. DANIEL V. STEENSON 17 455 S. 3rd Street 18 P.O. Box 2773 19 Boise, Idaho 83701-2773 20 21 22 23 24 25</p>	<p>1 (Exhibits 78 through 82 marked.) 2 KARL J. DREHER, P.E., VOL. II, 3 previously first duly sworn to tell the truth 4 relating to said cause, testified as follows: 5 EXAMINATION 6 QUESTIONS BY MR. STEENSON: 7 Q. Good morning. 8 A. Good morning. 9 Q. Okay. We're back on the record. My 10 name is Dan Steenson. I represent Blue Lakes 11 Trout Farm in this matter. Karl, you remain 12 under oath. 13 Karl, could you turn in deposition 14 exhibit books to Exhibit No. 4. 15 A. (Witness complying.) 16 Q. Do you recall the process by which the 17 Department obtained authority for and from the 18 SRBA Court to proceed with interim administration 19 and form Water District 130 and other water 20 districts? 21 A. Certainly, I recall generally the 22 process. I don't know whether I recall all the 23 specific steps and the timeline. 24 Q. Do you recall the State of Idaho filing 25 a motion with the SRBA District Court seeking</p>

2 (Pages 159 to 162)

<p style="text-align: right;">Page 163</p> <p>1 authority --</p> <p>2 A. Yes.</p> <p>3 Q. -- from the court to conduct interim</p> <p>4 administration?</p> <p>5 A. Yes.</p> <p>6 Q. And this Exhibit 4 titled "Motion For</p> <p>7 Order of Interim Administration and Motion for</p> <p>8 Order for Order Expediting Hearing." I'll</p> <p>9 represent to you that the State describes the</p> <p>10 process that it has envisioned for interim</p> <p>11 administration.</p> <p>12 I would like you to turn, please, to</p> <p>13 page No. 7 -- actually, page No. 6, and read the</p> <p>14 text under the heading Roman numeral II at page</p> <p>15 number 6 through to the next section. And I</p> <p>16 don't mean read into the record. Read to</p> <p>17 yourself.</p> <p>18 A. Okay. What I'm looking at here,</p> <p>19 Exhibit 4, it says, "Motion for Order of Interim</p> <p>20 Administration," and there is no page 6. So I'm</p> <p>21 not sure I'm looking at the right thing. There</p> <p>22 is a brief in support --</p> <p>23 Q. I'm sorry. Turn to the "Brief in</p> <p>24 Support." You are right.</p> <p>25 A. (Witness complying.) All right.</p>	<p style="text-align: right;">Page 165</p> <p>1 water districts and the distribution of water</p> <p>2 thereunder will occur in accordance with the</p> <p>3 normal administrative mechanism created by</p> <p>4 Chapter 6, Title 42, Idaho Code."</p> <p>5 Can you describe what is meant by the</p> <p>6 normal administrative mechanism that is described</p> <p>7 in Title 42 of the Idaho Code?</p> <p>8 A. Well, this is a reference to, you know,</p> <p>9 the whole process that's outlined for the</p> <p>10 creation and the operation of water districts</p> <p>11 pursuant to Chapter 6. I mean, the normal</p> <p>12 administrative process is outlined in Chapter 6.</p> <p>13 Q. Okay. And could you summarize for us</p> <p>14 then, in your view, how water rights are normally</p> <p>15 administered in the water districts?</p> <p>16 A. Well, water districts have watermasters</p> <p>17 that function under the supervision of the</p> <p>18 director of the Department of Water Resources.</p> <p>19 And certainly, the director can delegate that</p> <p>20 authority to regional managers and such.</p> <p>21 But the water districts or the</p> <p>22 watermasters distribute water among rights in</p> <p>23 accordance with the instructions and the rules</p> <p>24 and that are issued by the director of the</p> <p>25 Department or its designee.</p>
<p style="text-align: right;">Page 164</p> <p>1 Q. The brief was covered by the motion in</p> <p>2 the exhibit.</p> <p>3 A. Okay. And what part now do you want me</p> <p>4 to read?</p> <p>5 Q. Turn to page 6, and under the heading</p> <p>6 Roman numeral II, read that section to yourself</p> <p>7 clear to the next page, Roman numeral III to the</p> <p>8 next section.</p> <p>9 A. (Witness reading.) Okay.</p> <p>10 Q. Are you in agreement with the process</p> <p>11 that's described in that section heading with</p> <p>12 respect to the anticipated administration of</p> <p>13 water rights?</p> <p>14 A. Well, the process for administering</p> <p>15 water rights is not dealt with in this section.</p> <p>16 It just talks about before you can administer,</p> <p>17 you have to have an accurate list.</p> <p>18 Q. And are you in agreement that the</p> <p>19 partial decrees that are discussed in that</p> <p>20 section represent an adequate list for the water</p> <p>21 rights for purposes of interim administration?</p> <p>22 A. Yes.</p> <p>23 Q. At the end of that section heading,</p> <p>24 there is a sentence that reads, "Upon entry of an</p> <p>25 order for interim administration, the creation of</p>	<p style="text-align: right;">Page 166</p> <p>1 Q. Okay. So normally, if a call or a</p> <p>2 request for delivery of water comes to a</p> <p>3 watermaster, what would a watermaster normally do</p> <p>4 as the next step?</p> <p>5 A. It depends on whether there has been a</p> <p>6 process established for administering those water</p> <p>7 rights. And certainly, in a surface water</p> <p>8 stream, generally that administration has</p> <p>9 occurred for some length of time, and the process</p> <p>10 is pretty mechanistic.</p> <p>11 Q. Can you describe it for me?</p> <p>12 A. Well, if there is a senior right that's</p> <p>13 not being filled, and as we talked about</p> <p>14 yesterday, the senior is in a position of</p> <p>15 diverting his -- whatever part of the right is</p> <p>16 not being filled, if he's in a position of</p> <p>17 diverting that water and applying it to</p> <p>18 beneficial use, then the watermaster would</p> <p>19 curtail a junior to supply that water.</p> <p>20 Q. And is that, though abbreviated, a</p> <p>21 complete summary of what the administrative</p> <p>22 process would be --</p> <p>23 A. No.</p> <p>24 Q. -- in terms of a surface water</p> <p>25 district?</p>

1 A. No, that's not complete.

2 Q. What's missing?

3 A. Well, the watermaster would typically
4 make these distributions, or change the
5 distribution on a daily basis, and would go back
6 the following day to reassess whether the senior
7 was getting the water needed, or whether he was
8 getting too much.

9 Often when these changes are made, in
10 some instances more water gets distributed to the
11 senior than they are entitled to. So the
12 watermaster makes adjustments, typically, on a
13 daily basis until the proper distribution is
14 obtained.

15 Often, though not always, the
16 watermaster presumes that the water provided to
17 the senior will be beneficial use, and may or may
18 not conduct an investigation. Certainly has the
19 authority to conduct that kind of investigation,
20 but often it's presumed, because the
21 investigation has been conducted in some manner
22 in the past.

23 Q. And is the watermaster required to
24 adjust headgates, because flows vary from day to
25 day, week to week, and so forth?

1 A. Only in part. Because not only do the
2 flows vary, but as the adjustments are
3 made -- and it depends on the location, of
4 course -- but there can be some length of time
5 needed for the changes to sort of stabilize. But
6 during the daily process, there can be variations
7 in flow as well.

8 Q. So I take it, specifically, in a
9 surface water system, there can be di-yearly
10 channels in flow; is that correct?

11 A. That's correct.

12 Q. And monthly changes in flow as well; is
13 that correct?

14 A. That's correct.

15 Q. And I take it that the frequency with
16 which the watermaster would adjust, change
17 headgates would depend on the variations in flow;
18 and assuming, of course, that the calling senior
19 continues to need the water that they called for;
20 is that correct?

21 A. Not entirely. I mean, the variations
22 in flow during a daily period are such that they
23 are generally not large enough that would warrant
24 the watermaster to go back and make an adjustment
25 other than on a daily basis.

1 Q. Yes. In other words, from one day to
2 the next?

3 A. That's correct.

4 Q. Not necessarily during the course of a
5 single day?

6 A. That's correct.

7 Q. And with respect to the water rights
8 that watermasters administer in their normal
9 process, they are represented, are they not, by
10 decrees, licenses, and permits?

11 A. Yes.

12 Q. And in the normal administrative
13 process, what does the watermaster do, if
14 anything, to determine the amount of water that a
15 calling senior is entitled to based on a decree,
16 a license, or a permit?

17 A. Well, because the investigation often
18 has been made in the past as to how much water a
19 senior needs, typically, the watermaster presumes
20 that the quantity that's been licensed or decreed
21 is the quantity that's needed, but not always.

22 Q. Okay. So is it accurate to say that
23 the watermaster does not question the amount of
24 water stated in a decree or a license in terms of
25 its statement of the entitlement of the water

1 user to water presuming that the water user
2 needs, or can put the water to beneficial use?

3 A. No, I don't think that's true. I mean,
4 the watermaster doesn't question the quantity
5 that has been decreed as the maximum amount
6 that's authorized to be diverted. But the
7 watermaster could question whether that amount is
8 needed.

9 Q. And what kinds of investigations or
10 queries might the watermaster make to determine
11 whether or not the water is needed?

12 A. Well, I mean, it's a very fact specific
13 situation. And as I indicated, often the
14 watermaster presumes that the full quantity is
15 needed, but not necessarily. You know, in Water
16 District 36 A, as an example, the watermaster
17 could question whether a surface water right was
18 fully needed by someone diverting from a spring
19 before a junior would be curtailed.

20 But, again, I think the typical
21 operation in the surface water system is
22 that -- unless there is some reason to question
23 how much is needed, the watermaster would presume
24 that the full amount authorized by the license of
25 decree would be distributed.

1 Q. Now, the determination of the need
2 would involve, would it not, a consideration of
3 the use as authorized by the right; isn't that
4 correct?

5 A. Certainly.

6 Q. In other words, for irrigation the
7 question would be: You're calling for water.
8 Are you, in fact, going to apply the water to
9 fields that you intend or need to irrigate?

10 A. Could include that, yes.

11 Q. What else might it include?

12 A. Well, some of the systems have multiple
13 uses, for example. So in some instances, I mean,
14 we have canals that also have hydropower
15 facilities on them. And so there could be an
16 inquiry as to what purpose is the water being
17 diverted? Is it to irrigate fields? And if the
18 water isn't needed for irrigation, it still may
19 be authorized to be diverted for hydropower
20 purposes.

21 Q. Let's take aquaculture, for example. I
22 assume you recall the distribution of water that
23 you instructed the watermaster of Water District
24 130 to effectuate as between Clear Lakes and
25 Clear Springs Foods facility?

1 A. Yes.

2 Q. And do you recall the determination of
3 need that your instructions directed the
4 watermaster to conduct in that case?

5 A. Well, initially, when the call was
6 first made, I asked for a statement from Clear
7 Springs that the water was needed and would be
8 put to beneficial use. And then we followed that
9 up after the distribution was made. I asked the
10 watermaster to go out and confirm that the water
11 was being beneficially used.

12 Q. And did that occur to your satisfaction
13 in that case?

14 A. Yes.

15 Q. And in that case, the order
16 contemplated ongoing administration; did it not?

17 A. It did.

18 Q. And contemplated ongoing administration
19 in order to provide Clear Springs continuous
20 delivery of its 200 cfs right at that location;
21 isn't that correct?

22 A. Uh-huh, that's correct.

23 Q. And that did occur from the date of
24 your instructions through the last date of your
25 employment with the Department; did it not?

1 A. Yes.

2 Q. And so far as you know, it's ongoing
3 today; correct?

4 A. Correct. And the watermaster is
5 supposed to -- I don't recall if it was on a
6 monthly basis or what time period, but the
7 watermaster in that case, because both parties
8 have a need for the water, the watermaster is to
9 continuously, or on a periodic basis continuously
10 confirm that the water is, in fact, being
11 beneficially used.

12 Q. Now, does the determination of need, or
13 the determination that the water will be put to
14 beneficial use, vary depending upon the source of
15 supply?

16 A. Not so much depending upon the source
17 of supply. It depends on the history of
18 administration. If water rights had been
19 administered for long periods of time, you know,
20 there tends to be less inquiry as to the need,
21 and whether the water is being put to beneficial
22 use.

23 Q. Sure. Is that because there is an
24 understanding within the Department of the
25 history of the use, and the use going forward?

1 A. Well, there is an understanding that
2 historically that quantity of water has been
3 beneficially used.

4 Q. But the examination of need, I take it,
5 wouldn't change, for example, if the water right
6 was from a surface water supply or a ground water
7 supply?

8 A. The principle is the same regardless of
9 the source of supply.

10 Q. And is the application within the
11 Department the same, the application, that is, of
12 that principle?

13 A. It is the same, but -- the principle is
14 the same. But its application, at least for
15 ground water, as rights begin to be administered
16 that historically have not been administered,
17 there may be a more extensive inquiry, initially,
18 before water is redistributed from a junior to a
19 senior.

20 Q. Do you mean then that there would be a
21 more extensive inquiry into -- because ground
22 water rights have not been historically
23 administered -- into the need for, and beneficial
24 use of water by ground water rights that have not
25 previously been administered?

<p style="text-align: right;">Page 175</p> <p>1 A. No, both ground water rights and the 2 senior rights. 3 Q. But by "more extensive," you don't mean 4 that the nature of the inquiry would change? 5 It's still an inquiry into how the water is used, 6 and will the water be applied to the use as 7 authorized by the right; correct? 8 A. Right. And as time passes, and there 9 is more experience with the administration, 10 presumably the inquiry would lessen just as it 11 has in the administration of surface water 12 rights. 13 Q. And I would like you to turn to the 14 newly marked deposition Exhibit No. 78. And this 15 document is entitled, "Defendants' Memorandum in 16 Response to Motions for Summary Judgment." It's 17 filed in the district court proceeding that 18 resulted from a complaint filed by American Falls 19 Reservoir District No. 2, and others, against the 20 Department and yourself. I assume you recall 21 this matter? 22 A. Yes. 23 Q. And if you turn to page 67 where there 24 are signatures of Counsel, I take it that those 25 persons, Phillip Rassier, Candice McHugh, and</p>	<p style="text-align: right;">Page 177</p> <p>1 Q. And at that page, beginning at the 2 second line, there is a statement, "The Rules do 3 not permit the Director to look behind the 4 decree, they simply require as part of the 5 administration of the rights to determine whether 6 the water being called for is presently needed to 7 achieve the beneficial uses for which the senior 8 water right was established. If so, the full 9 right is delivered. If not, then only that 10 amount of water presently needed under the senior 11 water right is delivered." 12 And, obviously, in this case, the 13 reference to "the Rules" is the Conjunctive 14 Management Rules; do you agree with that 15 statement? 16 A. Yes. 17 Q. And I take it really, the singular 18 issue for the watermaster when reading a decreed 19 right and determining how much water to deliver 20 in terms of the uses, whether the water is needed 21 and will be put to beneficial use; is that 22 correct? 23 A. That's correct. 24 Q. Now, beyond that, as you discussed 25 yesterday, the rules identified factors for</p>
<p style="text-align: right;">Page 176</p> <p>1 Michael Orr, were counsel representing you and 2 the Department at the time of this filing of this 3 memorandum, Deposition Exhibit No. 78? 4 A. That's correct. 5 Q. Are you familiar with the course of 6 proceedings in that case? 7 A. Yes. 8 Q. Would it be fair to say that the 9 memoranda and other pleadings filed on your 10 behalf in this case represent the views of 11 yourself and the Department, at least at the time 12 of the filing? 13 A. I would have to say that's correct, at 14 least in a general sense. And most likely in the 15 most specific sense, but I don't exactly know 16 what issue you are wanting to probe. 17 Q. Well, we'll get there. Bear with me 18 just a moment here. 19 MR. STEENSON: Let's go off the record 20 for a moment here. 21 (Discussion held off the record.) 22 MR. STEENSON: Back on the record. 23 Q. (BY MR. STEENSON) Could you turn to 24 page 35 of Exhibit No. 78. 25 A. (Witness complying.)</p>	<p style="text-align: right;">Page 178</p> <p>1 determining material injury. And among those 2 rules, there was indication that the watermaster 3 needs to determine the amount of water available 4 at the source of supply; correct? 5 A. Yes. 6 Q. And that would be part of the normal 7 administrative process, whether a surface water 8 district or on a ground water district, that is 9 for the watermaster to measure the flow, and 10 determine the amount of water that is available; 11 correct? 12 A. That's correct. 13 Q. And then after conducting the 14 determination, and whatever investigation is 15 necessary to establish need, the watermaster's 16 next step then, as you described it, would be to 17 curtail juniors diverting water from 18 hydraulically-connected water sources within the 19 water district; isn't that correct? 20 A. That's correct. 21 Q. Now, yesterday there was discussion of 22 your May 19th, 2005 order issued in response to 23 the Blue Lakes call. And that order is in 24 Deposition Exhibit No. 11, and I would like to 25 turn your attention to that exhibit at this time.</p>

<p style="text-align: right;">Page 179</p> <p>1 A. Before you ask your next question, in 2 your prior question, you didn't talk about 3 whether or not mitigation was being provided. 4 And that's part of the normal administration as 5 well. 6 Q. Sure. 7 A. The junior can continue and is not 8 curtailed if, in fact, the out-of-priority 9 depletions are mitigated, whether it's a surface 10 water source or a ground water source. 11 Q. Sure. Now, as I recall the discussion 12 yesterday, you said that you endeavored in 13 issuing these orders to follow the rules very 14 carefully in responses to this Blue Lakes water 15 delivery call and others that were filed 16 contemporaneously; is that correct? 17 A. The rules and statutes, and to the 18 extent there were issues that hadn't been 19 addressed in the rules or the statutes, that we 20 would apply case law. But we did do it very 21 carefully. And we did it the same in all the 22 calls that were made. 23 Q. Okay. And if you could turn to page 8 24 of Exhibit No. 11, looking at the section 25 heading, it looks like after background</p>	<p style="text-align: right;">Page 181</p> <p>1 by paragraph 34, I take it that what you did to 2 confirm the water rights, was to look at the 3 partial decrees for Blue Lakes' three water 4 rights; am I correct? 5 A. That's correct. 6 Q. And do you agree that the water rights 7 are -- the partial decrees are conclusive as to 8 the nature and extent of the water rights 9 described in the elements therein? 10 A. Yes. 11 Q. Okay. Then under the next section 12 heading in this order, at page 10, the section 13 heading entitled, "Authorized Diversion Rate For 14 Water Rights Nos. 36-02356A, 36-07210, and 15 36-07427," and it lists the water rights there. 16 The discussion that you give there under that 17 heading, is it based on one or more of the 18 Conjunctive Management Rules? 19 A. I can't say it's based on a specific 20 rule. But I can say that it's not outside of the 21 provisions of the Conjunctive Management Rules. 22 Q. Okay. Could you turn to, I think, it's 23 Deposition Exhibit No. 37, a copy of the 24 Conjunctive Management Rules. And identify for 25 me which, if any, portions of the rules pertain</p>
<p style="text-align: right;">Page 180</p> <p>1 discussion at pages 1 through 7, your first step 2 was to examine and discuss the delivery call that 3 was made and the water rights; correct? 4 A. Correct. 5 Q. And is that investigation and 6 examination covered by some portion of the rules? 7 A. I'm not following? 8 Q. You refer, for example, in paragraph 35 9 to Rule 10.04. 10 A. Yes. 11 Q. This discussion and this analysis that 12 you conducted under the section heading at page 13 8, is it pursuant to certain portions of the 14 Conjunctive Management Rules that you can refer 15 me to, other than Rule 10.04? 16 A. I'm not sure what matter of the 17 investigation that you are concerned about? I 18 mean, certainly, beyond the Conjunctive 19 Management Rules, I mean, the watermaster is not 20 going to distribute water to a water right that 21 is not there, for example. So, you know, it's a 22 normal part of the normal process of 23 administration is confirming what rights exist to 24 which water is being sought to be distributed to. 25 Q. Sure. And so at the time as indicated</p>	<p style="text-align: right;">Page 182</p> <p>1 to this discussion, beginning at page 10 of 2 Exhibit No. 11? 3 A. Again, I'm not saying that there is a 4 specific rule that I followed in doing that 5 analysis. But the analysis is not outside of the 6 rules. 7 Q. Do you mean, it's within the rules? 8 A. Well, the rules provide -- they provide 9 a number of specific factors that are looked at. 10 But, you know, they also, in general, frame out 11 how ground water is going to be administered. 12 And this investigation is not outside of the 13 constraints provided by the rules. 14 Q. Which factor of constraint provided by 15 the rules pertains to this analysis? 16 A. Well, this analysis goes to -- was done 17 trying to describe what the quantity element of 18 the decreed right -- what that meant. It was, in 19 fact, a maximum authorized rate of diversion. 20 And the difference -- the reason for 21 the analysis is that the difference is that 22 these, the sources of supply for these rights, 23 does vary significantly seasonally. And that was 24 a factor that existed at the time that the rights 25 were established. So it's simply doing an</p>

<p style="text-align: right;">Page 183</p> <p>1 analysis of what the quantity element means. 2 Q. Okay. So I take it then that under 3 this heading, none of the discussion pertains to 4 a consideration of the quantity of water that 5 Blue Lakes needs, or would put to beneficial use; 6 is that correct? 7 In other words, this isn't an analysis 8 of need for water under this section? 9 A. And the section that you are referring 10 to is Findings 45 through 51? 11 Q. Correct. 12 A. Yeah, this does not relate necessarily 13 to how much water is needed by Blue Lakes, or how 14 much they would put to beneficial use. This 15 analysis goes to under what conditions can they 16 call for the distribution of water to their 17 rights. 18 Q. Now, is this then outside the normal 19 administrative process that you describe, whereby 20 watermasters look at the water rights represented 21 by decrees, licenses or permits, and then make 22 the determination of need, or the extent to which 23 the user will put the water to beneficial use? 24 And then based upon that determination, then 25 administer junior ground water rights as</p>	<p style="text-align: right;">Page 185</p> <p>1 right users who don't have storage, they would 2 follow the administrative process that you 3 describe? That is, consult the water right, 4 evaluate need, and then proceed with 5 administration; right? 6 A. Correct. 7 Q. And in the normal administrative 8 process that I just described, they would not 9 conduct an analysis of flow variation in order to 10 determine how much water to deliver; would they? 11 A. They could. 12 Q. Okay. And that would be then only to 13 the extent of determining what water is available 14 at the time of the call; correct? 15 A. Correct. 16 Q. And it wouldn't be for the purpose of 17 determining what the water right, quote/unquote, 18 "means"? 19 A. What the water right needs? 20 Q. Means. 21 A. Means? 22 Q. Yes. 23 A. I'm not sure I understand your 24 question. 25 Q. Okay. Fair enough. This discussion</p>
<p style="text-align: right;">Page 184</p> <p>1 warranted in the decree, license or permits 2 allowed? 3 A. The principles are the same. It's not 4 outside the principles, but there are some 5 differences. Here you've got a source of supply 6 that has significant variations. And unlike 7 other surface water rights held by canal 8 companies, for example, they don't have storage 9 that they can rely on to make-up for the 10 variations. 11 So in a surface water right stream with 12 water rights typically held by canal companies, 13 as variations occur that would diminish the water 14 that can be diverted by the canal company, the 15 quantity remains the same, except it becomes 16 storage water. Here that option doesn't exist. 17 Q. Are you aware of canal companies in the 18 Boise Valley, for example, and elsewhere, that 19 other surface water right users don't have 20 storage and rely entirely on natural flow; 21 correct? 22 A. There are some, sure. 23 Q. And the watermaster in a surface water 24 right district administering water rights to 25 deliver to natural flow users, surface water</p>	<p style="text-align: right;">Page 186</p> <p>1 that we've been talking about at pages 10 through 2 11 paragraphs 45 through 51, again, first of all, 3 does not pertain to an analysis of need, or the 4 extent to which the calling senior will put the 5 water to beneficial use if it's delivered? 6 A. That's right. 7 Q. As you describe, it pertains then only 8 to determining what the quantity element of a 9 water right, as you described, means? 10 A. Of these particular rights to -- I 11 shouldn't say, "these particular rights," because 12 it applies to these particular rights. It 13 applies to all the other rights, in my view, that 14 rely on these highly variable spring flows for 15 the source of their supply. 16 Q. Would this analysis apply only to 17 variable spring flows, or would it apply to any 18 variable flow in the state of Idaho? 19 A. Well, certainly, the principle here 20 does not single out spring flows. But this 21 situation is somewhat unique. Where springs vary 22 like this, the uses, they are not all 23 non-consumptive. There is some irrigation uses, 24 of course. But generally, the uses are 25 non-consumptive. And the rights were established</p>

1 with the variation in place. The variation
2 existed when the rights were established.

3 Q. Now, in surface water system, flows
4 vary seasonally; do they not?

5 A. They do.

6 Q. And they vary both as a result of
7 natural causes and human causes by way of
8 diverting water and so forth?

9 A. They do.

10 Q. So the same statement that you made
11 with respect to these rights being established in
12 the context of variable flows would apply to
13 virtually any water right in the state of Idaho;
14 isn't that correct?

15 A. Certainly.

16 Q. Now, in the normal administrative
17 process, prior to the issuance of this order,
18 have you ever instructed a watermaster to conduct
19 this type of analysis to determine what the water
20 right means?

21 A. Well, again, in the -- you know, and I
22 agree that there are exceptions to this. But in
23 most instances -- many instances, if not most
24 instances, a typical surface water right holder
25 will have storage that compensates for the

1 variability. So as the seasonal variation occurs
2 and flows diminish, they begin using storage
3 water as opposed to natural flow.

4 Q. Well, what if you don't have storage,
5 then what?

6 A. Well, then -- well, I'm not sure which
7 junior rights you are referring to. But one of
8 the differences here is that -- at least as I
9 understand the situation that you are trying to
10 describe -- you have senior and junior surface
11 water rights that are diverting from the same
12 source. And it seems like you are trying to make
13 that analogous to the junior and the senior
14 rights that are diverting from
15 hydraulically-connected sources, but different
16 sources, and they are not the same.

17 Q. No, I'm not trying to describe the
18 situation. I'm trying to understand the analysis
19 you are applying here, and how it applies to
20 water rights in the state of Idaho. So let me
21 ask the question this way:

22 In this Blue Lakes order, May 19th, and
23 in the other orders you issued in response to
24 calls for water by spring users in the Thousand
25 Springs area, are these the first instances in

1 which, to your knowledge, the Department has
2 engaged in an analysis of seasonal variation to
3 determine what a water right means in response to
4 a call for water?

5 A. I don't know whether it's the first or
6 not. But what I'm trying to --

7 Q. No, I'm asking about your knowledge.
8 To your knowledge?

9 A. To my knowledge?

10 Q. Yes. This was the first time this was
11 done?

12 A. I don't have any knowledge that it's
13 the first time or not the first time. I mean,
14 certainly, in the situations of administration
15 that I faced during my tenure here, this is the
16 first time we had to go through this kind of
17 analysis.

18 Q. So it's the first time, as far as you
19 know, this analysis was done in response to a
20 water delivery call?

21 A. But the reason is because the rights
22 for which curtailment or administration were
23 sought were from a different source. That was
24 the reason.

25 Q. And why does that reason support? Why

1 does the fact that the junior water rights here
2 were from ground water, support an analysis of
3 the variability of flows in order to determine
4 what Blue Lakes' water rights, as you say, mean?
5 In order to interpret the -- I take it -- let me
6 go at it this way.

7 If I understand what you are doing in
8 this section of the order is, you were
9 interpreting the quantity element of Blue Lakes'
10 water rights; correct?

11 A. No, it's not that simple. It's not
12 just interpreting the quantity. It's
13 interpreting a quantity for the purposes of
14 administering junior-priority ground water rights
15 that you are diverting from a different source.

16 Q. Now, would this analysis be performed
17 outside the context of administration in order to
18 determine the nature and extent of the water
19 right?

20 A. I'm not sure I understand the question,
21 what you mean.

22 Q. Okay. Is the situation where Blue
23 Lakes calls for delivery of water, the only
24 context in which the analysis we're discussing at
25 pages 10 and 11 of the order would be performed?

<p style="text-align: right;">Page 191</p> <p>1 A. Well, we're ships passing in the night, 2 I guess. Because what this situation were -- if 3 you had a junior right and a senior right 4 diverting from the same spring source, then these 5 variations are -- you know, you administer the 6 two rights as the flows go up and as the flows go 7 down. 8 But here, when you are seeking the 9 administration of junior-priority ground water, 10 the ground water didn't cause the variation. And 11 so it's important -- you know, what I'm trying to 12 say is, you simply don't curtail junior rights, 13 because there is a variation in the source of 14 supply. 15 Q. Okay. When you say, "the ground water 16 didn't cause the variation," Blue Lakes' springs 17 discharged from the Eastern Snake Plain Aquifer; 18 don't they? 19 A. Yes. 20 Q. So the variability in Blue Lakes' 21 springs, and consequently, in Alpheus Creek is 22 necessarily a consequence of variability in the 23 flow of water from the aquifer; isn't that 24 correct? 25 A. Yes.</p>	<p style="text-align: right;">Page 193</p> <p>1 A. It's qualified. It says, in close 2 proximity to individual springs, which is just 3 what I described. If you have a ground water 4 diversion in close proximity to the spring, it 5 could affect the timing. 6 Q. Right. And in paragraph 46, you 7 clearly describe that you clearly reference, 8 "overall variations between years in the 9 discharge of springs in the Thousand Springs area 10 result from differences between the amounts of 11 ground water depletions and recharge to the ESPA 12 above the springs"; correct? 13 A. Correct. 14 Q. So clearly, you are acknowledging that 15 ground water depletions have an effect on the 16 variability of spring flows; correct? 17 A. They can have. 18 Q. And they do, don't they? 19 A. It depends on where the ground water 20 depletion has occurred. 21 Q. Okay. Let's talk about Blue Lakes, the 22 springs that Blue Lakes relies upon. Do you have 23 an opinion as to whether or not ground water 24 depletions affect the variability of the 25 discharge of Blue Lakes from the north rim of the</p>
<p style="text-align: right;">Page 192</p> <p>1 Q. So any factor that would cause the 2 water level in the aquifer to vary, would be a 3 cause of the variation of Alpheus Creek; isn't 4 that correct? 5 A. State that again. 6 Q. Okay. Any factor, whether it's ground 7 water diversions or canal seepage that would 8 affect the level of the aquifer would affect the 9 discharge of the springs; correct? 10 A. Not necessarily in the same way. 11 Q. Okay. What do you mean by that? 12 A. Well, you know, if you had a ground 13 water diversion immediately above the source of 14 springs for Alpheus Creek, the pattern of that 15 ground water diversion could have some affect on 16 the pattern of spring discharge. But if you are 17 a ground water right that's further removed, the 18 further back you go in general, the less the 19 pattern of ground water diversions has an effect 20 on the pattern of spring discharge. 21 Q. Okay. At page 10, in paragraph 47, in 22 the third or fourth line, you clearly identify 23 variations in timing of ground water withdrawals 24 as a factor that affects intra-year variations 25 from the discharge of springs; don't you?</p>	<p style="text-align: right;">Page 194</p> <p>1 Canyon? 2 A. If they are in close proximity. 3 Q. Did you make a determination of whether 4 or not there are any ground water withdrawals 5 that are in close proximity? 6 A. Well, there are some in reasonably 7 close proximity, but they are not all in close 8 proximity. 9 Q. So at least some ground water 10 withdrawals are affecting the variability of Blue 11 Lakes' springs flows; correct? 12 A. To some extent. However, when you look 13 at least at the history of variability that we 14 have, it is not clear that the appropriation of 15 ground water in close proximity of springs is the 16 major factor relating to the variability. It has 17 some effect. But the effect may be small 18 compared to the other factors that effect 19 variability. 20 Q. Such as canal seepage? 21 A. Sure. 22 Q. And are there any others that you had 23 mentioned in terms of factors that affect the 24 Eastern Snake Plain Aquifer; and therefore, and 25 thereby, affect the variability of spring flows</p>

<p style="text-align: right;">Page 195</p> <p>1 from the aquifer?</p> <p>2 A. Well, it's incidental recharge from</p> <p>3 surface water irrigation, not just the incidental</p> <p>4 recharge from canal seepage. It's the bigger</p> <p>5 amount of incidental recharge from surface water</p> <p>6 irrigation.</p> <p>7 And if you look at the -- you know, to</p> <p>8 get a sense as to the relative magnitude of these</p> <p>9 things, you know, Finding of Fact No. 3, does</p> <p>10 give some average annual amounts for these</p> <p>11 various factors. And, you know, you see that the</p> <p>12 incidental recharge from surface water irrigation</p> <p>13 is generally about 3.4 million acre-feet across</p> <p>14 the whole Eastern Snake Plain Aquifer.</p> <p>15 Precipitation is 2.2 million acre-feet. And</p> <p>16 those to together is 5.6 million acre-feet, which</p> <p>17 is more than twice the depletions from ground</p> <p>18 water irrigation.</p> <p>19 Now, that's in general across the whole</p> <p>20 plain. But the point is that the variability is</p> <p>21 reasonably the result -- primarily the result of</p> <p>22 other factors besides ground water depletions.</p> <p>23 Q. And how do you know that?</p> <p>24 A. Just because of the magnitude of the</p> <p>25 numbers.</p>	<p style="text-align: right;">Page 197</p> <p>1 indication that the ground water depletions were</p> <p>2 exacerbating the already occurring variability or</p> <p>3 not. And I could not identify, at least I could</p> <p>4 not identify any significant indication or trace</p> <p>5 that ground water depletions were causing -- were</p> <p>6 the significant cause, or were contributing in a</p> <p>7 significant way to the already existing seasonal</p> <p>8 variability.</p> <p>9 Q. Okay. And then let me follow-up on</p> <p>10 your answer, your prior answer.</p> <p>11 Did you subsequently, to the issuance</p> <p>12 of the May 19th, 2005 order, obtain additional</p> <p>13 information to then form the understanding of</p> <p>14 your variability?</p> <p>15 A. Well, we continued to look at measured</p> <p>16 spring discharge, you know, to see if there were</p> <p>17 any changes that should be reflected in</p> <p>18 subsequent administration. And so, I mean, yeah,</p> <p>19 we looked at measurements, spring discharge</p> <p>20 measurements subsequent to the order, but still</p> <p>21 could not identify any variation that we could</p> <p>22 contribute to ground water depletions.</p> <p>23 Q. And turning to page 11, paragraph 49.</p> <p>24 A. You know, significant variations</p> <p>25 attribute to ground water depletions, obviously,</p>
<p style="text-align: right;">Page 196</p> <p>1 Q. In the order in paragraph 48, you state</p> <p>2 that the interactions between factors that affect</p> <p>3 variability in spring flow are not presently</p> <p>4 quantifiable; correct?</p> <p>5 A. Only in general.</p> <p>6 Q. But at the time of the order, you</p> <p>7 didn't have information in order to quantify the</p> <p>8 factors that affect variability; correct?</p> <p>9 A. No. Generally they can be quantified.</p> <p>10 How they interrelate then is much more difficult.</p> <p>11 Q. So how they interrelate could not be</p> <p>12 determined at the time of the order?</p> <p>13 A. Not in a quantified way. In a</p> <p>14 qualitative way, I think we can have some</p> <p>15 discussion.</p> <p>16 Q. Tell me what you can tell me as of the</p> <p>17 time of the order, describe for me the extent to</p> <p>18 which you were able to qualitatively</p> <p>19 quantify -- quantitatively qualify the factors</p> <p>20 that interact and affect variability of the</p> <p>21 spring flows that come from the Eastern Snake</p> <p>22 Plain Aquifer.</p> <p>23 A. Well, in terms of ground water</p> <p>24 depletions, we looked -- or I looked at the</p> <p>25 available measurements to see if there was any</p>	<p style="text-align: right;">Page 198</p> <p>1 they have an effect.</p> <p>2 Q. Obviously, ground water depletions have</p> <p>3 an effect on spring flows; correct?</p> <p>4 A. Sure. But the effect is not so large</p> <p>5 that you ignore the variability that's always</p> <p>6 existed, and simply look at curtailing</p> <p>7 junior-priority ground water rights, because the</p> <p>8 spring flow is diminishing due to seasonal</p> <p>9 variability.</p> <p>10 Q. But at any point along the variable</p> <p>11 flow curve, if you will, ground water pumping is</p> <p>12 affecting the quantity of the discharge; correct,</p> <p>13 at a spring flow?</p> <p>14 A. It depends on where the ground water</p> <p>15 depletion is, whether it has an effect or not.</p> <p>16 Q. Okay. Then at page 11, paragraph 49.</p> <p>17 A. Okay.</p> <p>18 Q. I take it from that paragraph that you,</p> <p>19 as of the time of the order, did not have any</p> <p>20 information from which you could determine what</p> <p>21 the inter-year variations of the Blue Lakes'</p> <p>22 springs were at the time Blue Lakes' water rights</p> <p>23 were appropriated; is that correct?</p> <p>24 A. No, that's not correct. We couldn't</p> <p>25 specifically quantify a portion of the variation</p>

<p style="text-align: right;">Page 199</p> <p>1 was due to ground water. We can quantify the 2 variation. You can do that just simply by 3 looking at the measured discharge. You can 4 quantify how the springs are varied. 5 Q. Let's look at this last sentence. It 6 says, "There are no known measurements, nor any 7 other means, for reasonably determining the 8 intra-year variations in the discharges from 9 springs comprising the source for these water 10 rights on the dates of appropriation for these 11 water rights." 12 A. Okay. 13 Q. I don't see any qualified reference 14 there. 15 A. I misspoke. What this statement refers 16 to is, there was no quantification of the 17 variation at the time that these rights were 18 established. The variations that we have that we 19 can quantify, begin with when measurements began 20 being submitted to the Department. 21 But having said that, these rights, 22 like many of the other spring rights, the field 23 examination for beneficial use was intentionally 24 made during the seasonal maximum discharge of the 25 springs.</p>	<p style="text-align: right;">Page 201</p> <p>1 communication there. But I know that I've seen a 2 number of instances of such communication for the 3 permitting and licensing of rights that were 4 discharged from springs. 5 Q. Just because somebody else may have 6 done it, doesn't mean you can impute it to the 7 owners of Blue Lakes at the time; can you? 8 A. No, of course not. 9 Q. So you are not doing that here; are 10 you? 11 A. No. But I am suggesting that there is 12 no reason to believe that the licensing for these 13 rights was done differently than any other right. 14 Q. There is just no reason to know one way 15 or the other is there, Karl? 16 A. I would have to go back and look at the 17 file then to see what kind of communication was 18 or was not occurring. You know, from my 19 perspective the point -- the issue that's at 20 stake here is without ground water depletions, 21 the springs are going to have annual variations 22 with or without ground water depletions. 23 And if these spring rights are going to 24 be administered in as simplistic fashion whereby 25 juniors are not allowed to divert any time that</p>
<p style="text-align: right;">Page 200</p> <p>1 Q. How do you know that? 2 A. Because of the dates when the field 3 inspection -- 4 Q. How do you know it was intentional? 5 A. I don't -- I don't recall for these 6 particular -- whether it was these particular 7 rights or not. But there are a number of spring 8 rights, where there is correspondence in the 9 water right file, where the applicant was 10 requesting that the field -- the beneficial use 11 field exam be made at a particular point in time 12 when the springs were near their maximum point of 13 discharge. 14 Q. Okay. But you did review, as you 15 indicated in this order, that you reviewed the 16 files that the Department had pertaining to the 17 license and permitting, and licensing of the Blue 18 Lakes rights; correct? 19 A. That's correct. 20 Q. Okay. Did you see any such letter that 21 indicated that the owners of the Blue Lakes 22 facility at the time were making the kind of 23 request you just described? 24 A. I don't recall. I have to go back and 25 look at the file to see if there was any such</p>	<p style="text-align: right;">Page 202</p> <p>1 the quantity is not being met, then ground 2 water -- I mean, if knowing what we know today, 3 then under that kind of a system, you would never 4 allow ground water appropriations to occur, 5 because there are already times when the maximum 6 authorized amount for diversion isn't being met, 7 even without any ground water diversions. 8 Q. And your statement pertains to 9 administration. It doesn't pertain to the 10 meaning, or the nature, or extent of Blue Lakes' 11 water right; does it? 12 A. No, I think it has some applicability 13 there. But the quantity element is the maximum 14 amount authorized to be diverted when it's 15 available. 16 Q. And so in your view in this case, was 17 it necessary for you to consider the variability 18 that you did in order to understand then the 19 nature and extent of Blue Lakes' water right? 20 A. Understand the nature and extent? Yes. 21 Q. Do you know what -- 22 A. Sure. 23 Q. Okay. So if this consideration of 24 seasonal variability were necessary for you to 25 understand the nature and extent of a water</p>

<p style="text-align: right;">Page 203</p> <p>1 right, why wasn't it addressed in the 2 adjudication?</p> <p>3 A. Well, I'll answer that first, and then 4 I'll try to backup again. But the quantity 5 element in the adjudication simply is the maximum 6 amount authorized to be diverted. And for spring 7 rights, or any other surface water right, or 8 ground water rights, for that matter, the 9 quantity element does not define the seasonal 10 variability, whether it's a seasonal variability, 11 seasonal variability in spring discharge, 12 seasonal variability in stream flows, seasonal 13 variability in ground water levels. It's not 14 addressed, and not specifically defined by the 15 quantity element, because the quantity element is 16 the maximum amount that can be diverted. It's 17 not a constant quantity entitlement. That's not 18 what it is.</p> <p>19 Q. If I understood your testimony, you 20 felt the need to go back in time and ascertain to 21 the extent you could, the seasonal variability in 22 Blue Lakes flows in order to determine what 23 quantity of water they were entitled to under 24 their water right; isn't that correct?</p> <p>25 A. Only -- not what quantity -- not</p>	<p style="text-align: right;">Page 205</p> <p>1 water rights?</p> <p>2 A. I'm not sure I understand the question.</p> <p>3 Q. Okay. You explained the basis for 4 considering seasonal variability as Blue Lakes 5 making a call for delivery of water from a 6 hydraulically connected ground water source; 7 correct?</p> <p>8 A. Yes.</p> <p>9 Q. If Blue Lakes hadn't made the call, and 10 just an ordinary day in the water district when 11 Blue Lakes was diverting water, would the 12 watermaster or you feel it necessary to consider 13 seasonal variation to determine if Blue Lakes was 14 diverting the amount of water that they were 15 entitled to divert?</p> <p>16 A. Only if Blue Lakes was seeking to 17 divert more water than the maximum amount they 18 were authorized to divert. It's not happening 19 right now, of course. But it's possible for the 20 spring discharge to exceed the quantity element.</p> <p>21 And we have instances where spring 22 users at times have diverted the water that was 23 there, even when it exceeded the quantity 24 element.</p> <p>25 Q. That can happen with anyone?</p>
<p style="text-align: right;">Page 204</p> <p>1 what -- the maximum quantity they were 2 authorized. I mean, that's settled by the 3 decree. The maximum amount that they are 4 authorized to divert is settled by the decree. 5 However, as I've said before, Blue Lakes was 6 seeking the administration of junior-priority 7 ground water rights diverting from a 8 hydraulically-connected source, but not the same 9 source.</p> <p>10 Q. Is the quantity element of the decree 11 different, or interpreted differently by the 12 Department when administration is sought, as 13 opposed to when administration is not sought?</p> <p>14 A. Well, the only reason for the 15 Department to investigate the quantity element is 16 when administration is occurring, or 17 alternatively, I suppose, if the transfer is 18 filed.</p> <p>19 Q. Okay. That really wasn't my question. 20 My question is: Does the Department 21 view the quantity element differently in the 22 context of the right to divert water without 23 curtailing junior ground water rights, as opposed 24 to the right to divert water when administration 25 is sought by way of curtailment by junior ground</p>	<p style="text-align: right;">Page 206</p> <p>1 A. Sure, of course.</p> <p>2 Q. It's not unique to spring water users?</p> <p>3 A. That's absolutely correct.</p> <p>4 Q. Could you turn to Deposition Exhibit 5 No. 2, please.</p> <p>6 A. (Witness complying.)</p> <p>7 Q. And look at the decrees for Blue Lakes' 8 water rights, and specifically at the quantity 9 element.</p> <p>10 A. (Witness complying.) Okay.</p> <p>11 Q. Now, each of these decrees under the 12 quantity element has a diversion rate; correct?</p> <p>13 A. Yes.</p> <p>14 Q. It also has an annual volume expressed 15 in acre-feet per year; correct?</p> <p>16 A. Yes.</p> <p>17 Q. Now, I'll represent to you -- and I 18 didn't bring my calculator. Maybe we can get 19 one -- but I looked at the analysis that was done 20 by the Department to derive the annual volume, 21 and they use the factor of -- they rounded the 22 conversion factor of 1.9834 to 1.98 to convert 23 this rate to the number of acre-feet per day, and 24 then multiplied that number by 365 to derive the 25 annual volume.</p>

<p style="text-align: right;">Page 207</p> <p>1 So given that representation, do you 2 recognize that the annual volume here represents 3 a diversion of 45 cfs, 24 hours a day, 365 days a 4 year? 5 A. It's certainly -- the magnitude of the 6 numbers are consistent with what you described -- 7 Q. In other words -- 8 A. -- but, again -- 9 Q. In other words, if you took 45 cfs, and 10 multiplied it by 1.98, and multiplied it by 365, 11 you would get 32,521.5? 12 A. Which, again, is the maximum volume 13 authorized to be diverted if it's there. 14 Q. But it's authorized to be diverted -- 15 A. If it's there. 16 Q. We're going to confuse the court 17 reporter if we keep interrupting each other. 18 A. All right. 19 Q. It's the amount of water that's 20 authorized to be diverted 24 hours a day, 365 21 days a year; isn't that correct? 22 A. If, in fact, it's there. 23 Q. And if it's not there, what amount is 24 Blue Lakes entitled to under, for example, 25 36-07210?</p>	<p style="text-align: right;">Page 209</p> <p>1 source and a ground water source. 2 Q. Okay. Can you explain that complexity 3 to me? 4 A. Well, it has to do with the -- it's 5 fully described in the orders. It has to do with 6 the effects of ground water depletions on the 7 hydraulically-connected surface water sources, 8 which are much different than the effects of 9 tributary sources on another surface water 10 stream. 11 Q. Now, turning back to Deposition Exhibit 12 No. 11, to page 13, under paragraph 60. 13 A. (Witness complying.) 14 Q. Do you recall these data as data that 15 were collected by Tim Luke at your request? 16 A. Yes. 17 Q. Now, in reviewing this diversion data, 18 did you take the time to compute the annual 19 volume that was being delivered to Blue Lakes as 20 a result of the flows that you referenced in this 21 table? 22 A. No. 23 Q. Now, given your discussion in paragraph 24 60 of the data in the table, and your statements 25 in paragraph 64, that Blue Lakes' 1971 priority</p>
<p style="text-align: right;">Page 208</p> <p>1 A. They are entitled to divert what's 2 there when they are in priority. 3 Q. Okay. So does "in priority" mean when 4 a -- junior ground water rights are curtailed? 5 What do you mean "in priority"? 6 A. Well, generally, it's in priority from 7 the same source. And it gets, again, more 8 complicated when you move from administering 9 water rights in the same source to administering 10 water rights between sources that are 11 hydraulically-connected, but not the same source. 12 Q. Why is that, again? 13 A. Why is it more complicated? 14 Q. Why is it more complicated? Let's take 15 a tributary stream and tributary surface water 16 right source. Is the situation more complicated 17 just because you look upstream to administer 18 water rights from any connected source, or is it 19 just because here in this circumstance, we're 20 looking upstream to curtail ground water rights? 21 A. When you are administering between 22 tributaries, it gets more complex. But 23 generally, in surface water systems, 24 administering between tributaries is not as 25 complex as administering between a surface water</p>	<p style="text-align: right;">Page 210</p> <p>1 water right is being filled by the 2004 flows. 2 Does that mean that for purposes of 3 administration, these flow rates that you 4 reference in the table for 2004, are the flow 5 rates that Blue Lakes is entitled to under its 6 1971 water right for purposes of administration? 7 A. I had to re-read Finding 64. Restate 8 the question now for me, please. 9 Q. Okay. Is the upshot of Finding 64 that 10 the daily inflows listed in the table in 11 paragraph 60 for 2004, the date the flows that 12 Blue Lakes' 1971 priority water right entitled it 13 to receive for purposes of administration of 14 hydraulically-connected junior rights? 15 A. Well, again, I've said it before, that 16 these seasonal variations exist with or without 17 ground water diversions. And if you were to 18 interpret the quantity element of the right as 19 being the maximum amount that Blue Lakes is 20 entitled to, then you would never have allowed 21 any ground water development, because Blue Lakes' 22 right already wouldn't have been filled during 23 some time of the year. And under that theory, 24 you couldn't allow a junior to come in. 25 Q. Then was the right licensed</p>

<p style="text-align: right;">Page 211</p> <p>1 incorrectly?</p> <p>2 A. No, the right was not licensed</p> <p>3 incorrectly. The right was licensed at the</p> <p>4 quantity, which was the maximum amount that they</p> <p>5 were entitled to divert if the water was there.</p> <p>6 Q. And the value of the water right really</p> <p>7 is determined, and the rubber hits the road, if</p> <p>8 you will, in times of administration; isn't that</p> <p>9 correct? What a water right means is really put</p> <p>10 to the test when the water user who owns the</p> <p>11 water right calls for distribution of water?</p> <p>12 A. Well, the value of a water right really</p> <p>13 is inherent in the priority date in the</p> <p>14 authorization to make beneficial use. The</p> <p>15 administration doesn't increase or shouldn't</p> <p>16 decrease the value of a water right.</p> <p>17 Q. Shouldn't; right? The administration</p> <p>18 should not decrease the value of a water right;</p> <p>19 should it?</p> <p>20 A. That's correct.</p> <p>21 Q. Now, in this table, you reference</p> <p>22 "Maximum Daily Flow, Average Daily Flows, Minimum</p> <p>23 Daily Flow." In paragraph 64, your conclusion</p> <p>24 takes into account the variations that have</p> <p>25 existed since the date of appropriation.</p>	<p style="text-align: right;">Page 213</p> <p>1 water that's available. It doesn't define the</p> <p>2 amount of water that Blue Lakes is entitled to.</p> <p>3 Q. Okay. You say that the amount of water</p> <p>4 available is sufficient to fill Blue Lakes' water</p> <p>5 right?</p> <p>6 A. At the seasonal maximum.</p> <p>7 Q. Okay. And what months of the year in</p> <p>8 the table are you referring to?</p> <p>9 A. Well, it appears that the seasonal</p> <p>10 maximum generally occurs in October or November.</p> <p>11 Q. Okay. So does that then mean that the</p> <p>12 water supply, the quantity of water available at</p> <p>13 the source of the water right, that is water</p> <p>14 right 36-07210, is insufficient to fill the right</p> <p>15 the rest of the year?</p> <p>16 A. It's insufficient to provide that</p> <p>17 quantity during the other times of the year, or</p> <p>18 can be.</p> <p>19 Q. So the water right isn't being filled</p> <p>20 10 months of the year; correct?</p> <p>21 A. With or without ground water</p> <p>22 depletions, it's the same result.</p> <p>23 Q. The answer to my question is, "yes";</p> <p>24 isn't that correct? The water right is not being</p> <p>25 filled, according to this data that you include</p>
<p style="text-align: right;">Page 212</p> <p>1 Which of these flows, maximum, average,</p> <p>2 or daily, are you relying on in drawing the</p> <p>3 conclusion that you drew in 64? Is it the</p> <p>4 maximum, the average, or the minimum?</p> <p>5 A. I have to reread it again. (Witness</p> <p>6 reading.) Well, it says it in the finding</p> <p>7 itself. Reading the last portion of the finding,</p> <p>8 "The quantity of water available," et cetera, "is</p> <p>9 currently sufficient to fill this right at the</p> <p>10 authorized diversion rate of 45 cfs when the</p> <p>11 inflows in Alpheus Creek are at seasonal highs."</p> <p>12 Q. Okay. And are those seasonal highs</p> <p>13 represented in the table?</p> <p>14 A. Yes, they are.</p> <p>15 Q. Okay. Which numbers are they</p> <p>16 represented by?</p> <p>17 A. The seasonal highs are reflected in</p> <p>18 both -- in all three, the maximum, average and</p> <p>19 minimum daily flows.</p> <p>20 Q. Okay. So to define the amount of water</p> <p>21 right water that Blue Lakes is entitled to for</p> <p>22 purposes of administration during any given</p> <p>23 month, which of these columns do I look at; the</p> <p>24 max, the average, or the minimum?</p> <p>25 A. Well, the table defines the amount of</p>	<p style="text-align: right;">Page 214</p> <p>1 in paragraph 60, 10 of the 12 months of the year;</p> <p>2 correct?</p> <p>3 A. I wouldn't characterize it that way,</p> <p>4 that it's not being filled.</p> <p>5 Q. How would you characterize it?</p> <p>6 A. I would characterize it that the</p> <p>7 quantity of water available during 10 months of</p> <p>8 the year is less than the maximum quantity</p> <p>9 authorized to be diverted.</p> <p>10 Q. And therefore, the water right is not</p> <p>11 being filled; correct?</p> <p>12 A. Well, but the implication, when you add</p> <p>13 that additional characterization, is it's not</p> <p>14 being filled because of junior-priority</p> <p>15 diversions. That's the implication. And I'm</p> <p>16 saying that the quantity of water is less than</p> <p>17 the maximum amount authorized to be diverted</p> <p>18 because of variations, over which the</p> <p>19 junior-priority ground water users aren't</p> <p>20 causing.</p> <p>21 Q. Now, junior-priority ground water</p> <p>22 diversions have both short-term and long-term</p> <p>23 effects on the Eastern Snake Plain Aquifer; don't</p> <p>24 they?</p> <p>25 A. Yes.</p>

1 Q. And you've described those yesterday as
2 transient and steady state?

3 A. Correct.

4 Q. And you've also said that over time,
5 the effect of a ground water diversion is fully
6 expressed in spring flows. It's just a question
7 of how much time it takes?

8 A. I'll call it the average of the effect
9 reaches steady state. But there still can
10 be -- even at steady state, there can be some
11 seasonal variation around the steady state
12 average.

13 Q. Okay. So ground water pumping
14 generally in long term has the effect of lowering
15 the level of the aquifer, if the depletion by
16 ground water pumping is not compensated -- my
17 term, if you will, probably not technically
18 accurate -- but compensated for by seepage and
19 other inputs of water to the aquifer; isn't that
20 correct?

21 A. When a significant amount of ground
22 water withdrawals -- and I guess we could argue
23 about what "significant" means. When a
24 significant amount of ground water withdrawals
25 and associated depletions occurs, there is a

1 lowering, if you will, of ground water levels
2 until steady state conditions are reached. At
3 which point, the ground water levels no longer
4 recede.

5 Q. In your order documents your view that
6 the aquifer has generally been declining in
7 overall level, if you will, again my
8 terminology --

9 A. Yes.

10 Q. -- lay talk terminology -- since the
11 middle part of the last century?

12 A. That's -- generally, I agree with that
13 statement.

14 Q. As represented by the -- I don't
15 remember what attachment, maybe Attachment C, to
16 this and other orders to include that aquifer
17 levels increased from around 1900 to a peak of
18 around 1950, and have been declining since that
19 time; right?

20 A. I believe that's Attachment A on most
21 of these orders, and it's not ground water levels
22 that are portrayed. It's spring discharges
23 that's portrayed.

24 Q. But the spring water discharge is a
25 direct consequence of ground water levels; isn't

1 that correct?

2 A. For the most part, but not necessarily
3 entirely.

4 Q. So that trend that you show in spring
5 discharge also reflects the overall trend in
6 aquifer levels in the Eastern Snake Plain;
7 correct?

8 A. With the qualification, overall. There
9 are locations probably where ground water levels
10 have not decreased in a similar fashion, and
11 there may, in fact, be several locations where
12 they have increased.

13 Q. Sure. But you included the attachment
14 to portray the overall situation; correct?

15 A. Yes, of spring discharge.

16 Q. And spring discharges overall affected
17 by the Eastern Snake Plain overall?

18 A. But, again, it's not everywhere. It's
19 overall.

20 Q. Okay. So then, overall, pumping by
21 ground water users affects spring discharges at
22 any time of the year, any and every time of the
23 year overall?

24 A. Well, they can affect it at any time of
25 the year.

1 Q. Do you have any opinion as to whether
2 or not that is occurring in the Eastern Snake
3 Plain Aquifer?

4 A. Well, it certainly occurs at some
5 locations.

6 Q. Do you have an opinion as to whether
7 it's occurring at the location of Blue Lakes'
8 springs?

9 A. Now, are we speaking of depletions?
10 Are we speaking of variability? What is it that
11 is occurring?

12 Q. Decline in the aquifer resulting in a
13 decline in trend of spring flows since the middle
14 part of the last century.

15 A. Yes.

16 Q. Is that occurring? Has that been
17 expressed in Blue Lakes' springs, in your
18 opinion?

19 A. I would have to look back at the -- and
20 I don't have the attachment in this exhibit
21 (indicating).

22 Looking at Attachment C to the order,
23 which shows the total diversions from Alpheus
24 Creek, it appears that the decline is not exactly
25 consistent with the overall decline shown in

<p style="text-align: right;">Page 219</p> <p>1 Attachment A.</p> <p>2 Q. There is a decline; correct?</p> <p>3 A. It depends on what period of time you</p> <p>4 look at. It appears that if you look overall</p> <p>5 from when data became available and consistently</p> <p>6 beginning in about March of 1995 through</p> <p>7 September '04, there has been some decline. But,</p> <p>8 again, if you look at the time period from the</p> <p>9 abnormally high values shown in 2001, it makes</p> <p>10 the decline look more significant since 2001.</p> <p>11 But when you look overall from 1995 to</p> <p>12 2004, there is some decline apparent, but it</p> <p>13 would appear to be less in magnitude than the</p> <p>14 overall decline reflected in Attachment A.</p> <p>15 Q. And how would you describe the overall</p> <p>16 magnitude? You say the decline at Blue Lakes'</p> <p>17 springs was less than the magnitude of the</p> <p>18 overall decline? Can you quantify that</p> <p>19 comparison for me?</p> <p>20 A. Well, I'm using your characterization</p> <p>21 of the decline, the general decline shown in</p> <p>22 Attachment A since 1950.</p> <p>23 Q. All right. And I would like you to</p> <p>24 turn to what's been newly marked as Deposition</p> <p>25 Exhibit No. 82. And I'm going to represent to</p>	<p style="text-align: right;">Page 221</p> <p>1 be the maximum volume that Blue Lakes could</p> <p>2 divert if the water was there.</p> <p>3 Q. And that's stated in Exhibit 82;</p> <p>4 correct?</p> <p>5 A. I didn't do the math. I am taking your</p> <p>6 word that -- and I looked back in the order to</p> <p>7 compare your priority dates and numbers with what</p> <p>8 was in the order, and I don't have the annual</p> <p>9 volumes in the order.</p> <p>10 Q. Okay. They are in Deposition Exhibit</p> <p>11 No. 2, if you want to turn to that, at least for</p> <p>12 water right 7210 and 7427.</p> <p>13 A. (Witness complying.) Okay. I'm not</p> <p>14 seeing the volume for right 36-2365A.</p> <p>15 Q. That's not there.</p> <p>16 A. Okay.</p> <p>17 Q. I'm just asking you whether you'll</p> <p>18 suspend your disbelief --</p> <p>19 A. I don't have any disbelief.</p> <p>20 Q. -- and accept that they are accurately</p> <p>21 represented.</p> <p>22 Now, what I did here in the first page</p> <p>23 is to -- in the first column under "Average Daily</p> <p>24 Flows," simply list the average daily flows for</p> <p>25 the years 1995 and 1996 and for the year 2004,</p>
<p style="text-align: right;">Page 220</p> <p>1 you that these are tables in the draft that I</p> <p>2 prepared based on your table in paragraph 60 at</p> <p>3 page 13 and 14 of the May 19th, 2005 order.</p> <p>4 A. To table where? Excuse me.</p> <p>5 Q. I prepared Deposition Exhibit No. 82</p> <p>6 based on the table in paragraph 60 of your May</p> <p>7 19th, 2005 order.</p> <p>8 A. Okay.</p> <p>9 Q. Okay. And I'll walk you through this</p> <p>10 exhibit, and ask you some questions about it.</p> <p>11 This is Exhibit 82.</p> <p>12 You recognize the summary of the water</p> <p>13 rights at the first page at the top to be an</p> <p>14 accurate summary of Blue Lakes' water rights; is</p> <p>15 that correct?</p> <p>16 A. Without a calculator, I can't check the</p> <p>17 volume numbers. But other than the volume, the</p> <p>18 summary, in terms of the number and the priority</p> <p>19 rate and rate of diversion, it appears to be</p> <p>20 correct.</p> <p>21 Q. So assuming I did the math correctly,</p> <p>22 and the aggregate volume of Blue Lakes' water</p> <p>23 rights as stated in their decrees is 142,415.24</p> <p>24 acre-feet, thereabouts?</p> <p>25 A. If the numbers are correct, that would</p>	<p style="text-align: right;">Page 222</p> <p>1 that you listed in paragraph 60 of the May 19th,</p> <p>2 2005 order.</p> <p>3 And what I did was I multiplied those</p> <p>4 numbers by 1.98 to derive the average daily</p> <p>5 volume under each year. And then I multiplied</p> <p>6 those numbers by the number of days in the month</p> <p>7 to derive monthly volumes, and then by addition</p> <p>8 to derive the total volumes of water represented</p> <p>9 by those numbers for each year. And that is for</p> <p>10 1995 to 1996, the available flow provided Blue</p> <p>11 Lakes 107,198 acre-feet and 2004 provide 95,538</p> <p>12 acre-feet.</p> <p>13 Now, again, without asking you to</p> <p>14 accept my math, you would recognize, wouldn't</p> <p>15 you, that the volumes of water available to Blue</p> <p>16 Lakes in 1995 and 1996 and 2004, are</p> <p>17 substantially less than the volumes of water</p> <p>18 stated in their decrees?</p> <p>19 A. Well, they are substantially less than</p> <p>20 the maximum volume authorized to be diverted.</p> <p>21 But that maximum volume authorized to be diverted</p> <p>22 is a hypothetical number, that assumes that the</p> <p>23 discharge at those rates would be constant, which</p> <p>24 it's not.</p> <p>25 Q. Are you saying the numbers under the</p>

<p style="text-align: right;">Page 223</p> <p>1 quantity element in the decrees are hypothetical 2 numbers?</p> <p>3 A. No, they are calculated, just as you 4 described earlier. They are based upon the rate, 5 times the conversion factor of 1.98, whatever it 6 is, times 365 days a year. Assuming that that 7 discharge would be available 24 hours a day, 365 8 days a year, which it's not.</p> <p>9 Q. And do you believe the decrees are 10 binding upon the Department of Water Resources in 11 their administration of water rights?</p> <p>12 A. Certainly.</p> <p>13 Q. Now, the graph I prepared then is then 14 based on the flow rates you included in paragraph 15 No. 60. And you can check the plots to verify 16 that I have correctly placed them in this graph 17 from the average daily flow column that you 18 reported in paragraph 60.</p> <p>19 And I would like to see if you concur 20 with me in a few observations about these flows 21 based on this table. One is that the pattern of 22 variability during the 1995, 1996 time frame and 23 the 2004 time frame is similar, seasonally 24 similar?</p> <p>25 A. There is some differences, but the</p>	<p style="text-align: right;">Page 225</p> <p>1 made? It was one you received from Blue Lakes?</p> <p>2 A. Well, I don't recall if it's one I 3 received directly from Blue Lakes, or this is a 4 result of calculations made by Tim Luke.</p> <p>5 Q. Okay.</p> <p>6 A. Because what we received from Blue 7 Lakes, I believe, was the average daily flows.</p> <p>8 Q. Okay. So certainly the average daily 9 flow on a monthly basis has declined during the 10 ten years prior to 2004?</p> <p>11 A. Well, I mean, we're looking at two 12 years. And I agree with you that -- I mean, 13 assuming that these plots are accurate, and I 14 don't dispute that you would plot them 15 inaccurate. I mean, I don't think you would do 16 it inaccurately.</p> <p>17 So all you can say, I think, is that 18 the average daily flows on a monthly basis in 19 2004, are less than the average daily flows on a 20 monthly basis than what is shown for 1995, 1996.</p> <p>21 MR. STEENSON: Okay. I want to mark a 22 new exhibit, please.</p> <p>23 (Exhibit 83 marked.)</p> <p>24 Q. (BY MR. STEENSON) Okay. Do you 25 recognize Deposition Exhibit No. 83 to be a field</p>
<p style="text-align: right;">Page 224</p> <p>1 overall shape, I suppose, is similar. But, for 2 example, if you look at the 1995, 1996 3 distribution, it would appear that the 4 decline -- the seasonal decline from April 5 through -- oh, it looks like July, is less steep 6 than the seasonal decline in 2004.</p> <p>7 Q. Sure. And then would you also concur 8 with me, that it's clear that the overall flows, 9 the annual flows at Alpheus Creek have declined 10 from 1995, 1996 to 2004?</p> <p>11 A. Remind me, again, what are you plotting 12 here? Is it the maximum, the average, or the 13 minimum?</p> <p>14 Q. The average.</p> <p>15 A. Well, it certainly appears that the 16 average flow in 2004 is generally less than the 17 average flow in 1995 and 1996.</p> <p>18 Q. And with respect to average flow, do 19 you recall how you calculated average season flow 20 on a monthly basis?</p> <p>21 A. I would assume that for that given 22 month, they would take the average daily flow for 23 each of the days during that month, and then 24 divide it by the number of days by the month.</p> <p>25 Q. This wasn't a calculation that you</p>	<p style="text-align: right;">Page 226</p> <p>1 examination performed for Water Right 36-7210?</p> <p>2 A. Well, this appears to be the field 3 exam, but often -- I don't remember if this was 4 the case with Blue Lakes or not -- there was 5 often a staff memorandum that was prepared to 6 evaluate the field exam, and so I don't know if 7 this -- if I -- I don't know that this is the 8 complete documentation of the field exam or not, 9 but it certainly appears to be part of it.</p> <p>10 Q. Okay. And I'm going to hand you what 11 I'll represent to you is a copy of the related 12 documents that I downloaded off the Department's 13 website related to 36-7210. You know how when 14 you go on the website, you can click on 15 different --</p> <p>16 A. Sure.</p> <p>17 Q. Tell me if there is additional 18 documentation than what I'm handing you that you 19 think would be part of the field exam?</p> <p>20 A. Well, initially, it appears that the 21 document titled, "Blue Lakes Trout Farm 22 Calibration of Staff Gage" would be related as 23 part of the field exam.</p> <p>24 Q. Let's pull it out and add to it the 25 exhibit.</p>

<p style="text-align: right;">Page 227</p> <p>1 A. (Witness complying.)</p> <p>2 Q. Is there any other document that you</p> <p>3 think --</p> <p>4 A. I'm still looking. Well, there is an</p> <p>5 additional letter that's related to this</p> <p>6 calibration of the staff gage that I don't know</p> <p>7 if it -- I mean, it's part of the same thing.</p> <p>8 Q. Is it relevant to you to the field</p> <p>9 exam?</p> <p>10 A. It certainly may, because it explains</p> <p>11 some differences in measurements over time.</p> <p>12 Q. Okay. Let's include that with the</p> <p>13 exhibit as well.</p> <p>14 A. But what I'm not seeing in here is any</p> <p>15 sort of a staff evaluation of the field exam, and</p> <p>16 I can't tell you if such a document exists in the</p> <p>17 water right file or not, but it may.</p> <p>18 Q. Okay. Now, looking at the field exam</p> <p>19 in Exhibit No. 83. Karl, clear over here</p> <p>20 (indicating).</p> <p>21 A. (Witness complying.) Okay.</p> <p>22 Q. The second page, it's a single page at</p> <p>23 the top, has the statement, "Date of exam, March</p> <p>24 1, 1977." Do you see that?</p> <p>25 A. I see that.</p>	<p style="text-align: right;">Page 229</p> <p>1 A. I can't tell that they've subtracted</p> <p>2 the amount for Pristine Springs out of this. So</p> <p>3 I would not say right now that 190.4 was the</p> <p>4 amount available to Blue Lakes.</p> <p>5 Q. Okay. But it would be perhaps more</p> <p>6 correct to say, that 190.4 cfs was the flow of</p> <p>7 water available at the point of diversion,</p> <p>8 whether it was for Blue Lakes -- whether it was</p> <p>9 shared with Pristine Springs or not?</p> <p>10 A. That's what this would appear to</p> <p>11 indicate, yes.</p> <p>12 Q. And, again, you reviewed this field</p> <p>13 exam when you prepared the May 19th, 2005 order;</p> <p>14 correct?</p> <p>15 A. Well, to the extent this -- well, if</p> <p>16 this was in the water right file, I would have</p> <p>17 looked at this, along with other documents that</p> <p>18 may not be here today that may be pertinent.</p> <p>19 Q. Okay. Then looking back to my graph in</p> <p>20 Exhibit No. 82. If you were to -- if you are</p> <p>21 able to, to plot that data point for 1977. Could</p> <p>22 you plot it for me? I'll give you a blue pen, if</p> <p>23 you would like.</p> <p>24 A. (Witness complying.) Okay.</p> <p>25 Q. Okay. I'm encouraged by that, because</p>
<p style="text-align: right;">Page 228</p> <p>1 Q. Do you recognize this to be a standard</p> <p>2 form that the Department has used in the past for</p> <p>3 field examiners to report their findings from the</p> <p>4 field exam?</p> <p>5 A. You know, it looks to be the form that</p> <p>6 was used at the time. I can't tell you if that</p> <p>7 same form is used or not. So I don't know that I</p> <p>8 would call it a standard form. But it appears to</p> <p>9 be the form that was used at the time.</p> <p>10 Q. At the time?</p> <p>11 A. Correct.</p> <p>12 Q. Now, under the heading, "Measurement</p> <p>13 Calculation," do you see the report of a</p> <p>14 measurement of 190.4 cfs?</p> <p>15 A. Yes.</p> <p>16 Q. Okay. That would indicate then, that</p> <p>17 at the time of the field exam in March of 1977,</p> <p>18 there was available for diversion by Blue Lakes</p> <p>19 190.4 cfs; isn't that correct?</p> <p>20 A. I don't know. This would appear to say</p> <p>21 that -- I don't know if this is the amount that</p> <p>22 was divertable by Blue Lakes, or the amount that</p> <p>23 was divertable by Blue Lakes in combination</p> <p>24 with -- is it, Pristine Springs?</p> <p>25 Q. Sure.</p>	<p style="text-align: right;">Page 230</p> <p>1 I put it in the same place. So I must be doing</p> <p>2 something right.</p> <p>3 A. Okay. We've simply put a quantity and</p> <p>4 a time. That's all that we've done.</p> <p>5 Q. Okay. And then could you then write,</p> <p>6 as I'm going to do here, "3-1-77" next to that</p> <p>7 point, so we have a time frame for it?</p> <p>8 A. (Witness complying.) Okay.</p> <p>9 Q. Okay. So clearly March 1, 1977 was at</p> <p>10 or closer to the time of the appropriation of the</p> <p>11 water right -- well, it's closer to the time of</p> <p>12 the appropriation of the water right than in</p> <p>13 1995, 1996, or the 2004 date; isn't that correct?</p> <p>14 A. Yes, that's correct.</p> <p>15 Q. The time of the appropriation is 1971.</p> <p>16 And 1977 being six years later; correct?</p> <p>17 A. Correct. That appears to be, yes.</p> <p>18 Q. And at the time, as I understand your</p> <p>19 discussion of the May 19, 2005 order and from</p> <p>20 other statements you've made, by the time we get</p> <p>21 to the '70s, when these aquaculture and spring</p> <p>22 water rights were being appropriated, we were at</p> <p>23 the peak, or making our way toward the decline of</p> <p>24 the overall level of the aquifer from the highs</p> <p>25 that you had depicted in the middle part of the</p>

1 century around the '50s?

2 A. I'm not sure I understand the question.
3 But before we go on, I want to make clear that
4 this point of 190.4, from the information you've
5 given me, I can't determine whether that is the
6 water available to Blue Lakes, or whether it
7 includes the amount that would have been diverted
8 to Pristine Springs.

9 Q. Sure.

10 A. And the reason for the significance of
11 that is that, these other lines that you've drawn
12 on this exhibit representing the average daily
13 flows for the months, average for the month,
14 between -- comparing them between 1995 and 1996
15 and 2004, those are flows that were strictly
16 available to Blue Lakes, do not include the
17 Pristine Springs diversions.

18 Q. So then I take it that to the extent
19 that they don't represent the Pristine
20 diversions, you would add 25 cfs to each data
21 point in the 2004, and 1995, and 1996 plots;
22 right?

23 A. Correct. I don't know if it's exactly
24 25 cfs, but it's on that order. Yes.

25 Q. Sure. It's the amount you mentioned in

1 the order; right?

2 A. Yes.

3 Q. Now, I want to turn then, your
4 attention then to Deposition Exhibit No. 81.

5 A. But I'm wondering, Dan, before we go
6 on, for completeness, if we shouldn't also note,
7 in addition to the date, that the quantity
8 includes the diversion to Pristine Springs?

9 Q. Does the field exam say that?

10 A. No.

11 Q. So we don't know one way or the other?
12 It may, or it may not?

13 A. I think we know.

14 Q. How do you know that?

15 A. Well, if we have the entirety of the
16 water right file here, I think we could show that
17 it does include it. Because in the beginning,
18 when these measurements were submitted, they
19 weren't separated out. They were combined. And
20 I think I could demonstrate that with the water
21 right file, but I don't have it.

22 Q. Okay. We can certainly get it here;
23 couldn't we?

24 A. I don't know. I don't know where it
25 is. If it's in the State archives, you are not

1 going to get it here quickly.

2 MR. RASSIER: I think Chris went to see
3 if it's available.

4 Q. (BY MR. STEENSON) And maybe I can
5 short circuit this by asking you to look at
6 Deposition Exhibit No. 80.

7 A. (Witness complying.)

8 Q. My understanding of Deposition Exhibit
9 No. 80, and I'll represent to you that the
10 highlights are in the electronic file that I
11 received, either from the Department or
12 downloaded from the Department's website.

13 I understand that these miscellaneous
14 measurements to be those that you referenced in
15 your order at paragraph No. 58 at page 12. And
16 by "order," again, I mean, the May 19th, 2005
17 order, page 12, paragraph 58. You have to go
18 back one, Karl.

19 A. It's 58?

20 Q. Yeah. It's the sentence that starts
21 out, "The USGS."

22 A. Okay.

23 Q. Do you recognize these measurements?

24 A. They appear to be what I was
25 referencing. But, again, when you hand me a

1 document out of context in terms of the rest of
2 the file, I can't tell you with certainty that
3 this is the document.

4 Q. Could you look through the document
5 and --

6 A. Well, like I say, it appears to be what
7 I was referencing.

8 Q. It's just you don't recall for sure; is
9 that --

10 A. Well, no. Actually, it looks similar.
11 But I don't know if there were other parts to
12 this document that were in the water rights file
13 that, you know, I just can't tell. It appears to
14 be what I was referencing.

15 Q. Okay. Fair enough. Then if we go back
16 in the document to the very last page, where the
17 structure of the Blue Lakes system was drawn, and
18 there is a legal description of the location.
19 And then immediately in the preceding paragraph,
20 we see dates in the 1950s and discharge
21 measurements; do you see that?

22 A. I'm looking at the last page. Is that
23 what I'm supposed to be looking at?

24 Q. No, the immediately preceding page.

25 A. Oh, okay. (Witness complying.) All

<p style="text-align: right;">Page 235</p> <p>1 right.</p> <p>2 Q. And then these measurements, as you</p> <p>3 turn back towards the front of the document,</p> <p>4 range from the 1950s to the early 2000 time</p> <p>5 frame. Do you recognize that?</p> <p>6 A. Yes.</p> <p>7 Q. Now, this document reflects flows in</p> <p>8 the system at the right and left channel, and at</p> <p>9 the canal diverting to the fish ponds. If you</p> <p>10 begin with the second to last page, in the 1950s,</p> <p>11 substantially over 200 cfs; isn't that correct?</p> <p>12 A. That's what it indicates.</p> <p>13 Q. Okay. And there is an indication that</p> <p>14 the canal diverting to a fish ponds on March 17,</p> <p>15 1950 diverted 23 second feet. And then, for</p> <p>16 example, there is a page a few pages back, where</p> <p>17 there is a measurement of April 4th, 1973</p> <p>18 indicating a diversion at the fish pond channel</p> <p>19 at 197 cfs; isn't that correct?</p> <p>20 A. That's what it says.</p> <p>21 Q. So these measurements would be</p> <p>22 indicative of substantially higher flows in the</p> <p>23 '50s, '60s, '70s, as we get into the time when</p> <p>24 these water rights were appropriated, then exist</p> <p>25 today that are available in the Blue Lakes</p>	<p style="text-align: right;">Page 237</p> <p>1 Q. Certainly, from Deposition Exhibit</p> <p>2 No. 80, we can see higher flow measurements</p> <p>3 recorded during the '50s than were recorded</p> <p>4 during the '60s. And consequently, similarly</p> <p>5 higher flow measurements recorded in the '60s</p> <p>6 than were recorded in the '70s. And a</p> <p>7 continuation of the similar trend as you proceed</p> <p>8 through the decades toward the current -- for the</p> <p>9 most recent measurements in early 2000; right?</p> <p>10 A. Well, I don't -- I mean, I'm looking at</p> <p>11 these numbers. I haven't plotted them out. It</p> <p>12 appears that during each year, that there were</p> <p>13 measurements made generally when the springs were</p> <p>14 at their minimal discharge, and measurements made</p> <p>15 generally when the springs were at the maximum</p> <p>16 discharge.</p> <p>17 And, you know, I think you could reach</p> <p>18 the conclusion that it looks like there has been</p> <p>19 a general decline. But, you know, I would have</p> <p>20 to really see what the magnitude of the decline</p> <p>21 has been. You would have to plot these out.</p> <p>22 Q. And you didn't do that when you issued</p> <p>23 this order on May 19th, 2005?</p> <p>24 A. No.</p> <p>25 Q. Why not? Wouldn't that be important to</p>
<p style="text-align: right;">Page 236</p> <p>1 diversion; isn't that correct?</p> <p>2 A. Well, I believe that's correct. I</p> <p>3 mean, you know, you can, I guess, get a similar</p> <p>4 result by simply comparing what I indicated in</p> <p>5 Finding 58. The last sentence assumes Pristine</p> <p>6 Springs was receiving its full authorized</p> <p>7 quantity of 25.3. Blue Lakes Trout was receiving</p> <p>8 184.7 cfs of the total 210 cfs diverted from</p> <p>9 Alpheus Creek into the Perrine Ditch on November</p> <p>10 10, 1980.</p> <p>11 So if you compare the 184.7 cfs that</p> <p>12 Blue Lakes was assumed to be receiving in 1980,</p> <p>13 and you compare that with what existed in</p> <p>14 November of 2004, you know, the maximum amount in</p> <p>15 2004, November of 2004, was 153.85 cfs. So there</p> <p>16 is certainly less water, apparently, available in</p> <p>17 2004 than there was in 1980.</p> <p>18 Q. And would you agree with me, that it</p> <p>19 looks like from these measurements, that there</p> <p>20 was more water available in the '50s than there</p> <p>21 was in the '60s? More water available in the</p> <p>22 '60s than there was in the '70s. And more water</p> <p>23 available in the '70s than there was in the '80s,</p> <p>24 and so on as we go forward in time?</p> <p>25 A. I don't know about that.</p>	<p style="text-align: right;">Page 238</p> <p>1 have done?</p> <p>2 A. Well, that's in part -- essentially,</p> <p>3 that's what I -- I didn't plot them out, but,</p> <p>4 essentially, I reached the conclusion that the</p> <p>5 water availability is less in 2004 than it was in</p> <p>6 1980.</p> <p>7 Q. Okay. So certainly then, these numbers</p> <p>8 in paragraph 60 are not indicative of flows</p> <p>9 existing at the time of appropriation; are they?</p> <p>10 A. No.</p> <p>11 Q. They are much lower; aren't they?</p> <p>12 A. They are lower. You know, I mean,</p> <p>13 again, if I look at November of 2004, the flows</p> <p>14 available in November of 2004 were 153.85 cfs,</p> <p>15 and comparing that to the flows available in</p> <p>16 November of 1980, which was 184.7 cfs, it appears</p> <p>17 that they are lower. I don't dispute that.</p> <p>18 Q. Okay. And the measurements from 1980,</p> <p>19 is that contained in Deposition Exhibit No. 80?</p> <p>20 A. Well, I believe it is, although there</p> <p>21 is a discrepancy of one day. There is a</p> <p>22 measurement that is reported on November 6th,</p> <p>23 1980, indicating that the diversion to the</p> <p>24 Perrine Ditch was measured at 210.1 cfs, and in</p> <p>25 Finding 58, I refer to a measurement of 210 cfs</p>

<p style="text-align: right;">Page 239</p> <p>1 on November 5th, 1980. Oh, excuse me. Wait a 2 second.</p> <p>3 It appears that the date has been 4 incorrectly stated in Exhibits 58 and 59 by five 5 days.</p> <p>6 Q. What should the date be, then? 7 A. Well, and I'm not sure. I talk about a 8 measurement made on November 5th in Finding 58. 9 And when I look at Exhibit 80, I see a 10 measurement made on November 6th of 1980 of 11 210.1. But in the last sentence of Finding 58 12 and then continuing into Finding 59, I refer to a 13 date of November 10th, which appears to be a 14 misstatement. It should be presumably November 15 5th or November 6th. But I don't know that it's 16 substantial in terms of looking to see whether 17 there has been a decline or not.</p> <p>18 Q. Okay. So you think the measurement in 19 Exhibit 80 that you may be referencing is a 1996 20 measurement?</p> <p>21 A. It appears that it may be, yes. 22 Q. Okay. 23 A. Because the quantity measured of 210.1 24 is essentially what I refer to as the 210 cfs in 25 Finding 58 on November 5th.</p>	<p style="text-align: right;">Page 241</p> <p>1 Q. Yes. And I've spoken with Tim Luke 2 about this information, and he indicates that he 3 doesn't know. Is there anyone else within the 4 Department?</p> <p>5 A. No. 6 Q. Okay. And by 1980, is that a time 7 frame when the levels of the aquifer are in a 8 stage of decline from the historic highs that you 9 described from the 1950s?</p> <p>10 A. Well, the accumulative spring discharge 11 from the Thousand Springs Reach, as shown on 12 Attachment A by 1980, were less than they were in 13 the 1950s.</p> <p>14 Q. Okay. So then with respect to seasonal 15 variations, I've asked you to look at Exhibit 16 No. 81. And from the data that is shown there, 17 and I will represent to you that this was 18 provided by the Department as one of the 19 documents that was relied upon in the issuance of 20 the May 19th, 2005 order. Do you recognize this 21 document?</p> <p>22 A. Well, it appears to be the document 23 that I relied on in preparing Attachment C to the 24 order. 25 Q. Okay. So while the level of the peaks</p>
<p style="text-align: right;">Page 240</p> <p>1 Q. Are you sure of that, or do you think 2 there was perhaps some other measurement that you 3 relied upon from November 6th, 1980?</p> <p>4 A. I don't know, because I don't have the 5 entire water right file. I can't go back and see 6 all the documents that I would have looked at.</p> <p>7 Q. And with respect to this document, do 8 you see any indication that water was being 9 diverted to Pristine or its predecessor?</p> <p>10 A. Well, in Finding 58, I said it's 11 assuming Pristine Springs. I don't know that you 12 can make that determination from this document. 13 So I made an assumption that it was.</p> <p>14 Q. Why did you make that assumption? 15 A. Well, I must have made the assumption, 16 because I thought it was reasonably supportable.</p> <p>17 Q. But you don't know? 18 A. I would have to go back through the 19 entire file and recreate the rationale for this 20 finding.</p> <p>21 Q. We may need you to do that, because the 22 Department has indicated that you are the only 23 person who can speak to the substantive finding 24 in this order. And nobody else can -- 25 A. Well, I wrote the order, so...</p>	<p style="text-align: right;">Page 242</p> <p>1 and the valleys may change, the pattern of 2 variation from year to year is a similar pattern; 3 is it not?</p> <p>4 A. It appears to be, yes. 5 Q. Okay. And with respect to Exhibit 6 No. 80, when you observed that some of the 7 measurements were taken at seasonal lows, what 8 months of the year were you referring to? Were 9 you referring to the March measurements at the 10 seasonal low periods?</p> <p>11 A. Not necessarily the absolute low 12 periods, but generally near the seasonal lows, 13 the March numbers.</p> <p>14 Q. And is it your opinion then that the 15 seasonal highs generally, over time, at least 16 back -- at least during the period of these 17 measurements in Exhibit No. 80, occurred in the 18 October, November time frame?</p> <p>19 A. Yes. 20 Q. Okay. 21 A. And the seasonal lows occur, 22 apparently, in the March, April time frame.</p> <p>23 Q. Okay. Then it's absolutely the case, 24 is it not, that the measurement for field 25 inspections for Blue Lakes Water Right 36-7210</p>

<p style="text-align: right;">Page 243</p> <p>1 taken in March of 1977, was not taken at a 2 seasonal high period, as you had previously 3 assumed?</p> <p>4 A. I'm not sure I assumed anything about 5 the March 1st, 1977 number.</p> <p>6 Q. Well, previously, you testified that 7 you assumed that the Blue Lakes, like others, 8 were intentionally having field examiners come 9 out at seasonal high flows to establish as great 10 a quantity for the water right as possible. 11 That's what you said; right?</p> <p>12 A. I had said, in general. And then we 13 talked about -- we had an exchange, and I 14 concluded there was no basis for me knowing 15 whether that was intentional on Blue Lakes' part 16 or not.</p> <p>17 Q. Now, based on the field exam, we now 18 know that it was not the case, that the 19 measurement occurred at the seasonal high period 20 of the flow in 1977; correct?</p> <p>21 A. That's what it appears to be.</p> <p>22 Q. Okay.</p> <p>23 A. The measurement date that is there, and 24 that would have been not during the time period 25 when the springs normally would be at their</p>	<p style="text-align: right;">Page 245</p> <p>1 1977 when this measurement was made, there was a 2 period of time where it looked like there was 3 an -- I'll call it transitional stability, and 4 then the declines began to occur again.</p> <p>5 So I don't know at what point you are 6 trying to get to, quite honestly.</p> <p>7 Q. Just for the annual variation of flow 8 from January through December --</p> <p>9 A. Yes.</p> <p>10 Q. -- as you've attempted to depict in 11 your order of paragraph 60. Again, given that 12 the annual pattern of flow has been fairly 13 relatively consistent; right?</p> <p>14 A. Yes.</p> <p>15 Q. Then the March 1st, 1977 measurement 16 would have been taken at a time during 1977 when 17 the flows were on their way towards a low from a 18 high period?</p> <p>19 A. For the annual variation?</p> <p>20 Q. For the annual variation.</p> <p>21 A. Yes, that's correct.</p> <p>22 Q. Okay. So then looking at my diagram, 23 if you were trying to infer flows in 1977 to get 24 some kind of a general idea of what the annual 25 variation would be, you would take the flow</p>
<p style="text-align: right;">Page 244</p> <p>1 maximum.</p> <p>2 Q. So in 1977, the maximum flow would have 3 been something higher than 124 cfs?</p> <p>4 A. Presumably, that's correct.</p> <p>5 Q. And then as we can see from my drawing 6 in Exhibit No. 82, the springs at that time in 7 1977 would be on the decline in their seasonal 8 flow pattern; right?</p> <p>9 A. Which exhibit are you referring to?</p> <p>10 Q. On Exhibit 82, my drawing of the third 11 page.</p> <p>12 A. Okay.</p> <p>13 Q. So the part of my question was that 14 given the seasonal pattern of flow that has been 15 occurring over the many last decades, that 16 measurement at the time of the field exam was 17 taken at a time when the springs were in a 18 declining annual trend; is that right?</p> <p>19 A. I'm not sure what you are basing that 20 on. Again, I will go back to Attachment A, which 21 shows the accumulative spring discharge, and, you 22 know, if you look across the period from the 23 1950s through 2004, there overall has been a 24 decline.</p> <p>25 When you look in the time period around</p>	<p style="text-align: right;">Page 246</p> <p>1 pattern like what we see in '95 and '96 and 2004, 2 and lift it up, wouldn't you, up to this higher 3 point in 1977? So that you would see an annual 4 flow pattern, like what we see in the other 5 years, but including this March 1, 1977 6 measurement; isn't that correct?</p> <p>7 A. Almost. I think you would have to do 8 that. You would have to subtract the 25 cfs from 9 the March 1st, 1977 measurement.</p> <p>10 Q. Okay. Now, even subtracting the 25 11 cfs, the annual flow pattern existing then in 12 1977, and certainly then, of course, in 1971, 13 when the water right was applied for, would be 14 much higher than the combined decreed diversion 15 rates for Blue Lakes' first priority water right, 16 and its second priority right 7210, than what I 17 plotted there at 170 cfs; isn't that right?</p> <p>18 A. I'm sorry. You are going to have to 19 state that again.</p> <p>20 Q. Let me walk it in steps then. Looking 21 at the graph, there is a straight line there at 22 about 145 cfs where I referenced the priority 23 water right 02356A?</p> <p>24 A. Yes.</p> <p>25 Q. And its second priority water right</p>

1 07210?

2 A. Yes.

3 Q. And that correctly reflects that the
4 decree identifies the diversion rate of 145 cfs;
5 isn't that correct?

6 A. Yes.

7 Q. Okay. Now, given the annual flow
8 pattern that would have existed in 1977, and
9 given the March 1st, 1977 measurements, and even
10 deducting the 25 cfs from that Pristine may have
11 diverted, the annual flow pattern certainly would
12 have not dipped below this combined amount of 145
13 cfs; would it?

14 A. I don't think that you can make that
15 conclusion based upon one point.

16 Q. Okay. How many points do you think you
17 need? Given your prior testimony that the annual
18 flow pattern is consistent through the years.

19 A. Well, but remember, you know, we
20 compared the annual flow pattern for 1995 and
21 1996, and compare that with 2004, I noted that
22 there were differences.

23 Q. Okay.

24 A. Even though there is kind of a general
25 pattern that appears similar. So I don't think

1 you can say, you can from one point determine
2 what the pattern was or was not in 1977.

3 Q. Sure. And looking back to your table
4 in paragraph 60, and looking at your March 19th,
5 2005 order, the average daily flow, your report
6 there for the month of March in 2004 is 134 cfs;
7 correct?

8 A. Correct.

9 Q. That certainly is not indicative of the
10 quantity of water available to Blue Lakes to
11 divert in March of 1977 based on the field exam;
12 right?

13 A. Yeah, probably not. Yeah.

14 Q. Is there any doubt that it's not
15 indicative?

16 A. Well, I mean --

17 Q. Is there any doubt that it's actually
18 56 -- approximately, 56 cfs less than the flow
19 that was available to Blue Lakes as documented by
20 the field exam in 1977, when the appropriation
21 was verified by the Department?

22 A. Well, there is no question that 134 is
23 less than -- I'm not sure what number you want to
24 compare it with?

25 Q. The March 1, 1977 figure.

1 A. Which is 190. And if you subtract off
2 the 25, that would be 165 cfs. And if you
3 compare that to 134 cfs, 134 is less.

4 Q. Yes. Again, if you assume that the
5 190.4 measurement reflects diversion by Pristine
6 as well?

7 A. Right, and that's the assumption I made
8 in Finding 58.

9 Q. Okay. So then, certainly, that
10 measurement from March of 2004 is not indicative
11 of the water that was available to Blue Lakes at
12 the time of appropriation; correct?

13 A. I think that's correct.

14 Q. Okay. Doesn't it also follow that
15 these flows from 2004 in the table are not
16 indicative of the flows that were available
17 during the course of the year in 1977 or 1971?

18 A. Likely not. But we don't have the
19 actual measurements. We didn't get actual
20 measurements on an average daily basis for the
21 months until 1995.

22 Q. Right. But one of the actual
23 measurements that we have that was the basis for
24 the licensing of the water right, was from March
25 of 1977, and shows flows are way higher; correct?

1 A. Well, it shows -- if you assume that it
2 includes the 25 cfs being diverted to Pristine,
3 it would be 165 cfs available in March, which is,
4 you know, it's hard telling. That was March 1st.
5 So I don't -- you know, there is not much
6 difference between February 2004 and March 2004,
7 it's about 134.

8 So that would indicate that making the
9 assumption that 25 cfs was being diverted to
10 Pristine, then there would have been in 1977,
11 assuming the measurements are compatible, which
12 that's another assumption here. I don't know for
13 certain that the measurements that were being
14 taken and reported in Exhibit 80, in fact, use
15 the same methodology at the same locations as the
16 measurements that have been reported since 1995.
17 I don't know that.

18 Q. That's a problem inherent upon going
19 back to data that's 30 years old, and trying to
20 interpret it; correct?

21 A. Yes. Sure, that's true.

22 Q. One of the reasons to recognize the
23 decrees as they are stated, because you were not
24 there when the water was appropriated in the
25 first place; correct?

1 A. Well, I've never said that we are going
2 to look to the maximum quantity that's authorized
3 to be diverted as stated in the decree. That
4 we're going to look -- that we're going to do
5 anything different than that. That is, and has
6 been, the maximum quantity that can be diverted.

7 Q. Okay. So in March of that year, given
8 this March 1, 1977 measurement, how much water is
9 Blue Lakes entitled to for purposes of curtailing
10 hydraulically-connected junior water rights?

11 A. At what? What date?

12 Q. In March of the year.

13 A. Of March of what year?

14 Q. Any year. Again, we've established
15 that when the water right was appropriated, there
16 was enough water in March to deliver the full 45
17 cfs; correct?

18 A. A full 145 cfs; is that what you are
19 saying?

20 Q. But the water right that we're actually
21 focusing on in paragraph 64, 7210 is for 45 cfs;
22 right?

23 A. Yeah.

24 Q. And we've established that the amount
25 of water available at the time of appropriation

1 for that water right was 45 cfs in March; right?

2 A. In March. But Water Right 36-7210 was
3 not appropriated in 1977. It was appropriated in
4 1971.

5 Q. Right. The field exam was in 1977
6 verifying the beneficial use in the amount of
7 water that was available at the time; right?

8 A. I see what you are saying.

9 Q. Isn't that correct? Potentially, there
10 was more water available in 1971 since the flows
11 of the springs have been declining; right?

12 A. Yes, I agree with that. Potentially,
13 there was more water available in 1971, I agree.

14 Q. So when we look at paragraph 64 of your
15 order, you say you are taking into account
16 variations in spring flows that have existed
17 since the date of appropriation to conclude that
18 the amount of water available to Blue Lakes in
19 2004 was adequate to fill its 45 cfs right.
20 Isn't that what you do there?

21 A. When the flows in Alpheus Creek are at
22 the seasonal highs.

23 Q. So is it your conclusion that Blue
24 Lakes is not entitled to 45 cfs through the
25 months of January through September?

1 A. No.

2 Q. Then why do you say that the water
3 right is being filled in those months, when
4 substantially less than 45 cfs is available for
5 that right?

6 A. I didn't say the 45 cfs is available
7 during those months. That's not what I said.

8 Q. Okay. So then during the months of
9 January through September, it sounds to me like
10 what you are saying is, number one, Blue Lakes'
11 45 cfs water right is not being filled?

12 A. I'm not using that terminology. I'm
13 saying the water was not available for Blue Lakes
14 to divert at the 45 cfs rate.

15 Q. During 2004; correct?

16 A. Correct.

17 Q. But that amount of water was available
18 to Blue Lakes, at least in March of 1977, at the
19 time of appropriation; correct?

20 A. Uh-huh.

21 Q. Okay. So isn't Blue Lakes entitled to,
22 at least during March of the year, the full 45
23 cfs, and isn't the Department obligated to
24 curtail juniors to deliver the full 45 cfs in
25 March given that that's what was available to

1 Blue Lakes in March at the time of appropriation?

2 A. Well, I understand the argument you are
3 making.

4 Q. No, I'm asking you a question.

5 A. Sure.

6 Q. And I would like an answer.

7 A. Well, you are inferring water
8 availability that, you know -- I mean, it's
9 reasonable, but I can't say that that amount of
10 water would have been available during
11 those -- during that time period based upon one
12 measurement. I don't know. I would have to
13 look -- I would have to -- where is the rest of
14 the months? Show me what the annual variation
15 was in 1977.

16 Q. Well, did the Department collect data
17 to make those determinations back in 1977?

18 A. No.

19 Q. It doesn't exist then; right?

20 A. Well, Blue Lakes may have it. I don't
21 know. Of course, the measurements were not
22 required until the measurement act was passed by
23 the legislature in 1994.

24 Q. Sure. So are you imposing now a
25 standard that didn't exist at the time the water

1 rights were appropriated?

2 A. No. Even in my initial response to
3 Blue Lakes when the delivery call was made was,
4 give us all the measurements that you think you
5 have that would be pertinent to making the
6 factual determination.

7 Q. And they are reported to the Department
8 on a regular basis; are they not?

9 A. But we've only got them in since 1995.

10 Q. And you are aware that there are USGS
11 day stations at the Blue Lakes springs at Alpheus
12 Creek where data has been collected all the way
13 back to the 1950s; correct?

14 A. During one or two months of the year.

15 Q. So you have the data that was
16 collected?

17 A. Only during one or two months during
18 the year. I don't know if they collect data
19 during the other months or not?

20 Q. Right.

21 A. We used what we had.

22 Q. Okay. So you are willing to assume
23 that Pristine was diverting water when you have
24 no basis for knowing that one way or the other;
25 correct?

1 A. Well, the basis for making the
2 assumption is that the measurements were
3 generally reported combined in that.

4 Q. How do you know that? Where does it
5 say that the Pristine's diversion is --

6 A. It doesn't.

7 Q. Okay.

8 A. But we know later in time than this
9 that they were combined, and it wasn't until 1995
10 that they began to be separated.

11 Q. Okay. So you have no basis for
12 inferring that water supply in any time of the
13 year, when Blue Lakes water right was
14 appropriated, was less than necessary to deliver
15 45 cfs; do you?

16 A. During any time of what year?

17 Q. At the time of appropriation -- this is
18 a phrase you use in your order. You use the
19 phrase "time of appropriation"?

20 A. Yes.

21 Q. So at the time of appropriation, you
22 have no basis for inferring that there was less
23 than -- that the water supply was less than
24 adequate at any time during the course of the
25 year to supply the full cfs; do you?

1 A. I don't know that I inferred it was
2 less at the time of appropriation.

3 Q. Then how can you say that the water
4 supply in 2004, when it's adequate only two
5 months during the year, to deliver the full right
6 is sufficient to fill the right?

7 A. At the time that Alpheus Creek is at
8 the seasonal high. I've never said anything
9 different.

10 Q. Does the water right entitle the user
11 to delivery of the water only when the flows are
12 at seasonal high?

13 A. If the water is available you could
14 divert the quantity other than the seasonal high.

15 Q. Okay. And if curtailment of junior
16 water rights is required to deliver the water, is
17 the entitlement only to the water when it's at
18 seasonal highs?

19 A. I don't think I've ever said that.

20 Q. Okay. So what is the import? What is
21 the reason for you to make reference to seasonal
22 highs here, such that the end result is that Blue
23 Lakes will get delivery of its 45 cfs by
24 administration only during two months of a
25 12-month period of the year?

1 A. Well, even if you make the supposition
2 that 7210 may have been filled for more than two
3 months of the year at the time of appropriation,
4 I mean, what about 7427? I mean, it seems like
5 the path that you are on is saying that Blue
6 Lakes is entitled to 145 cfs year round, even
7 though it never existed year round.

8 Q. How do you know that it never existed
9 year round?

10 A. Well --

11 Q. On what basis do you draw that
12 conclusion? You have said --

13 A. Even --

14 Q. You have said that you don't have a
15 full set of data from the water source at the
16 time of appropriation; correct?

17 A. Right. I think I said, "even if it's
18 not available."

19 Q. Okay. And the data point that we had
20 looked at that was the basis for licensing the
21 water right that wasn't at seasonal highs, show
22 that adequate water was available during the time
23 of appropriation of this water; correct?

24 A. At that point in time, sure.

25 Q. So the information that you do have all

<p style="text-align: right;">Page 259</p> <p>1 supports the contrary conclusion that the water 2 supply was adequate at 1977 or 1971 to supply 3 this water right? 4 A. I disagree with that conclusion. 5 Q. On the basis of what data? 6 A. One point. You can't make that 7 conclusion on one point, one measurement. 8 Q. Are you making that conclusion on the 9 2004 flow data? 10 A. Making what conclusion? 11 Q. Are you drawing the conclusion that the 12 water supply was inadequate at the time of 13 appropriation based on the 2004 flow data? 14 A. No. 15 Q. Are you doing it on the basis of the 16 1995 and 1996 data? 17 A. No. 18 Q. On what basis are you drawing your 19 conclusion? 20 A. I'm not drawing the conclusion. 21 Q. Okay. Then you have to take the decree 22 to mean what it says; don't you? That Blue Lakes 23 is entitled to 45 cfs 24/7, 365; don't you? 24 A. If it's there, they can divert it. 25 Q. And if --</p>	<p style="text-align: right;">Page 261</p> <p>1 the time of appropriation; correct? 2 A. Well, it shows that at one point in 3 time. 4 Q. Okay. And don't your decisions have to 5 be based on the information you have, rather than 6 on negative inferences from information you don't 7 have? 8 A. It's not based on negative inferences 9 from information we don't have. 10 Q. So you have no basis to infer in 1977, 11 that there was not adequate water to supply the 12 45 cfs right at any time during -- 13 A. I didn't make that kind of inference. 14 Q. And you can't; can you? 15 A. Nor did I. 16 MR. RASSIER: Do you want to take a 17 break now, Karl? It's 11:00. 18 THE WITNESS: It's 11:00? 19 MR. RASSIER: Yeah. 20 THE WITNESS: Sure. 21 MR. STEENSON: Okay. We can take a 22 break. 23 (A recess was had.) 24 MR. STEENSON: Okay. Back on the 25 record.</p>
<p style="text-align: right;">Page 260</p> <p>1 A. But you are saying, they are entitled 2 to it. And the quantity is the maximum 3 authorized rate. It's not an entitlement. 4 Q. So what duty is imposed on the 5 Department then to administer junior rights in 6 order to deliver the water represented by the 7 decree? 8 A. Well, I mean, if curtailing or 9 administering junior-priority rights will result 10 in a meaningful quantity of water to the senior, 11 then the Department has an obligation to 12 administer those rights. And that's exactly what 13 we were attempting to do. 14 Q. And that proposition doesn't have 15 anything to do with seasonal irrigation; does it? 16 A. Oh, yes, it does. Because you don't 17 administer junior rights in an attempt to deliver 18 water that wouldn't have been there anyway. 19 Q. But you don't know what water would 20 have been there any way in 1977; do you? 21 A. We don't have as much data from that 22 time period as we do now. 23 Q. But the field exam we looked at shows 24 that there was substantially more water than 25 would be necessary to fill that 45 cfs right at</p>	<p style="text-align: right;">Page 262</p> <p>1 Q. (BY MR. STEENSON) I want to conclude 2 on this issue. I think you understand its 3 significance, Karl, because it appears to me, and 4 it appears to Blue Lakes, that as a result of 5 this finding, its 45 cfs right entitles it to 6 priority distribution of no more than the flows 7 that are referenced in paragraph 60; is that 8 correct? 9 A. I don't think that's correct. You keep 10 talking about what Blue Lakes is entitled to. 11 And that is not what the quantity element of a 12 water right is. 13 Q. What is a water right? Is a water 14 right an entitlement or not? 15 A. It's an authorization to use water for 16 a defined beneficial use. 17 Q. It's a right? 18 A. Sure, it's a real right, a real 19 property right. 20 Q. It authorizes or entitles the person to 21 use -- to divert water from a source within the 22 state of Idaho for the beneficial use stated 23 therein; correct? 24 A. Yes, up to that amount. The water was 25 defined around a beneficial use, not the</p>

1 quantity.

2 Q. Okay. But irrespective of that
3 discussion of what a "right" means. The question
4 is: What amount of water -- if Blue Lakes is
5 receiving 134.9 cfs average during the month of
6 February, it's not receiving the decreed amount;
7 correct?

8 A. Correct.

9 Q. What amount is it entitled to? What
10 amount can it call for under the 45 cfs right in,
11 let's pick March, of the year?

12 A. Well, as we've spent the last hour or
13 more debating back and forth, it is not as simple
14 as you want to make it. It's more complex than
15 just, we're not getting this quantity; therefore,
16 you curtail the junior.

17 It is not that simple. Because of the
18 fact that the juniors are diverting from a
19 different source, not the same source.
20 Hydraulically connected, yes. The stream
21 variation is of a different character than the
22 variation in normal stream flows. I mean, stream
23 flows go up and down, certainly.

24 As these fish propagation rights -- and
25 I'm generalizing now, as they were appropriated,

1 you know, certainly, some of the earlier rights
2 were filled all the time. And as rights were
3 added at facilities, at some point, rights
4 weren't filled all the time because of the
5 variation. And that variation existed at the
6 time the rights were appropriated. It exists
7 today. And it has to be -- it is an aspect of
8 how these rights are administered.

9 Q. So if Blue Lakes under its first two
10 rights is entitled to 145 cfs, or its rights say
11 that much, and in March, it's receiving 134, is
12 it short? Is it in a position to call for the
13 Department to exercise its responsibility to
14 administer water rights, or not?

15 A. A right holder can always request
16 administration. I mean, that's part and parcel
17 of what you can do. But I guess I'm trying to
18 come at it a little differently.

19 A senior right holder is not entitled
20 to seek the curtailment of junior-priority rights
21 unless that curtailment will result in a
22 meaningful supply of water for the senior.
23 That's a general principle that applies in ground
24 water systems, in surface water systems, and
25 that's the principle we're trying to apply.

1 Q. Okay. Let's just talk about March of
2 the year. March of 2004, Blue Lakes is receiving
3 134 cfs, according to your table, on an average
4 basis. Do you see that?

5 A. Mm-hmm.

6 Q. Okay. Is that amount of water adequate
7 to fill its water right, its two water rights,
8 the first priority and the second priority water
9 rights in March, 134.07 cfs?

10 A. It's less than the -- let's see. Yeah,
11 it's less than the sum of the first two rights,
12 which is about 145 cfs. So this is less.

13 Q. So why isn't it the case then, that
14 based on March 2004, 134 cfs, that junior water
15 rights are subject to curtailment to the extent
16 that they are affecting -- adversely affecting
17 the flow of water to Blue Lakes' point of
18 diversion in March of the year?

19 A. Well, if the junior right is adversely
20 affecting the quantity of water that otherwise
21 would be available to the senior, and that
22 quantity is within the maximum amount authorized,
23 they are entitled to seek administration. I've
24 never said they weren't.

25 Q. Okay. So then why do you not apply the

1 1971 priority water right here to the
2 administration call provided in this order? Why
3 do you essentially take it off the table, say
4 it's being filled, and say that only Blue Lakes'
5 third priority water right will be recognized for
6 purposes of administering junior ground water
7 rights?

8 A. That's the determination that we made
9 at the time, is that the 1971 right was being
10 filled when Alpheus Creek was at its seasonal
11 highs. But clearly the third right was not,
12 clearly.

13 Q. I understand the determination that you
14 make. But is it your position that the second
15 priority right is being -- strike that question.

16 You recognize that aquaculture
17 facilities operate by diverting year round to
18 raise fish?

19 A. They divert water year round to raise
20 fish. Most divert more water at times of the
21 year than others, because the water is not
22 available.

23 Q. Okay. And you realize that the
24 lifecycle of fish, and requirements of the fish
25 is such that they require constant flows of water

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1 throughout their lifecycle?

2 A. I'm not a fish person. So I know fish

3 need water, but that's about the extent of, you

4 know, what I know. I'm not a fish propagator.

5 That's not my knowledge basis.

6 Q. So you don't know how aquaculture

7 facilities beneficially use water?

8 A. Well, in general, you know, I

9 can't -- I know that the facilities use variable

10 amounts of water during the year, and that they

11 adjust their operations accordingly.

12 Q. I'm going to conclude here, you would

13 be happy to hear, on this point. But I just want

14 to make sure I have this right.

15 Based on your observation of seasonal

16 variability and flows during the '96 time frame

17 and the 2004 time frame, you've determined that

18 the seasonal variability existed at the time of

19 appropriation; correct?

20 A. Correct.

21 Q. Okay. And you've determined that that

22 seasonal variability was such that Blue Lakes' 45

23 cfs right is satisfied on an annual basis by

24 seasonal maximum flows that are sufficient to

25 deliver 45 cfs; correct?

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1 A. I'd state it differently.

2 Q. Okay.

3 A. I would try to reach some mutual

4 understanding here. When looking at these first

5 two rights -- or, no, all three rights, looking

6 at all three of Blue Lakes' rights, it was clear

7 that the first one was not being injured. Okay?

8 It wasn't clear that the second one was

9 being injured. But it was clear that the third

10 one was being injured, because of the seasonal

11 variability. That's really the determination

12 that's made here. The third one is being

13 injured. The first one isn't. It's not clear

14 that the second one is being injured.

15 Q. Okay. In looking at the majority of

16 the graph, the majority of the year there is not

17 enough water to deliver that second priority

18 right in 2004; right?

19 A. Correct.

20 Q. So why is it not being injured during

21 those months of the year when the water supply is

22 not adequate to deliver 45 cfs?

23 A. I just tried to say, we don't know that

24 it is being injured, because we don't have -- we

25 don't -- we can't use one point to reconstruct a

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1 seasonal variation, and then conclude that there

2 was sufficient water to fill that right at the

3 time of appropriation. We don't know.

4 Q. You know --

5 A. We know that the seasonal variation

6 existed at the time of appropriation. We know it

7 exists today. We know that the first right

8 wasn't being injured. We know that the third one

9 was.

10 Q. Looking back at Exhibit 80. If you can

11 turn to the page where there are the measurements

12 of 1977.

13 A. (Witness complying.)

14 Q. Do you see that there is an October

15 measurement there, and a March measurement there

16 in 1977?

17 A. Yes.

18 Q. Do you see the March 3rd, 1977

19 measurement to the Perrine Ditch is 205 cfs?

20 A. Yes.

21 Q. And that measurement was taken two days

22 after the Department's field inspection

23 measurement; is that correct?

24 A. It appears that it was, yes.

25 Q. That's 15 cfs more than the 190 that

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1 the Department measured; correct?

2 A. Apparently.

3 Q. Wouldn't that indicate that the 190.4

4 cfs measurement represents the amount of water

5 that Blue Lakes was diverting, and does not

6 include the amount of water that was going to

7 Pristine's predecessors?

8 A. No, I don't think it says that. I

9 don't think you can determine that.

10 Q. Do you think the diversions of the

11 Perrine Ditch increased by 15 cfs over the course

12 of two days?

13 A. No. All I'm saying is, these

14 measurements, it is tough to go back that far in

15 time and decipher what these measurements mean.

16 Q. Okay.

17 A. And let me give you an example using

18 this data in this exhibit. March/April has

19 generally been the low point for the spring

20 discharge. October/November has generally been

21 the high point. Yet, in 1977, on March 3rd, it's

22 reported that Perrine Ditch was diverting 205.7

23 cfs. Yet on October 31st, the Perrine Ditch was

24 only diverting 177 cfs.

25 Q. And from that, you conclude?

1 A. It just shows that it's difficult to
2 infer much of anything from these early
3 measurements, other than what the numbers mean
4 themselves. If these numbers are intended to
5 represent seasonal variation, I guess that's what
6 you are trying to imply from this, then the
7 October '77 measurement in October is out of
8 phase with the March measurement. There is
9 something inconsistent here. And yet you want to
10 infer consistency from something that is
11 inconsistent.

12 Q. These are the measurements that you
13 relied upon --

14 A. I looked at one point in time to see
15 what the maximum amount of water had been
16 diverted. You know, I was looking to see if Blue
17 Lakes diverted the maximum amount that it was
18 entitled to, and it had.

19 Q. Why were you doing that?

20 A. To confirm that it was making full
21 beneficial use of the quantity that it was
22 authorized to divert.

23 Q. Wasn't that done in the adjudication?

24 A. No, the adjudication determined what
25 was the maximum amount that was authorized.

1 Q. Determined the maximum, confirmed the
2 beneficial use; did it not?

3 A. Yeah -- umm --

4 Q. Isn't that what the adjudication is
5 for?

6 A. Well, the adjudication defines the
7 beneficial use that can be made, and then the
8 elements are the constraints to the use of water
9 for that beneficial use, and the quantity
10 is -- element is one of those elements that
11 constrains how much water can be diverted for the
12 defined beneficial use.

13 Q. And licenses are issued based on actual
14 beneficial use?

15 A. Sure. But we know as time goes on,
16 that in some cases -- I'm not saying the case of
17 Blue Lakes. But for some reason, whatever
18 reason, people reduce the amount of beneficial
19 use they are making, and they consequently use
20 less water.

21 Q. Then one of the tasks assigned to
22 yourself, when you were working for the
23 Department, by statute was to do an investigation
24 to determine the nature and extent of beneficial
25 use --

1 A. Correct.

2 Q. -- of the water right, and to make a
3 recommendation to the SRBA --

4 A. That's right.

5 Q. -- that was based on the --

6 A. That's right.

7 Q. And that would include a determination
8 if there has been a forfeiture --

9 A. No.

10 Q. -- or substantial change in the use of
11 the water right after the time of licensure, so
12 that the water right would be recommended for
13 less than the -- to the court for less than the
14 usually established amount; isn't that correct?

15 A. No, that isn't correct.

16 Q. So --

17 A. In the instances where rights have been
18 licensed prior to the adjudication, the
19 recommendation was for the licensed amount.

20 Q. Okay. So you didn't do investigations
21 with respect to the licensed water rights?

22 A. Not if it had been licensed. We didn't
23 do any further investigation beyond the time that
24 the license was issued.

25 Q. Was the choice that you and the

1 Department made with respect to how you were
2 going to meet your statutory duties; correct?

3 A. That's correct.

4 Q. Okay. And so nonetheless, however, you
5 met the statutory requirement to investigate the
6 nature and extent of beneficial use of each water
7 right, your recommendations would be in accorded
8 a prima fascia weight? They are presumed to be
9 accurate, unless someone could produce contrary
10 evidence; correct?

11 A. Right.

12 Q. And unless that occurred, and the court
13 decided otherwise, the water right was decreed so
14 that it represented each of the elements
15 consistent with its historical beneficial use;
16 correct?

17 A. Correct.

18 Q. Now, here, this issue is different than
19 seasonal variation. You are looking at -- as you
20 say in paragraph 59, you look back in time and it
21 shows 1980 to find a diversion rate that as you
22 say, is the maximum amount of water known to have
23 been diverted from Alpheus Creek.

24 So you are coming up with a number
25 there that is contrary to the decreed amount of

1 the Blue Lakes' water rights, the aggregate
2 amount of 197.06; right?

3 A. No, that is not what we're doing.

4 Q. In paragraph 59 isn't 184.7 different
5 than 197.06?

6 A. Sure. But the 197.06 is the decreed
7 amount. That's the maximum amount that Blue
8 Lakes is authorized to divert.

9 Q. Why did you conduct this investigation
10 to determine the maximum amount of water known to
11 be diverted?

12 A. Well, there is a difference between the
13 maximum amount that a right holder can divert,
14 and the amount that he might divert. This was
15 simply a picture of how much was diverted at one
16 point in time subsequent to the right being
17 appropriated.

18 Q. What's the purpose of this number in
19 the order?

20 A. It was simply one aspect of how the
21 right had historically been used. It's just one
22 aspect of it.

23 Q. And then in the order you conclude that
24 184.7 cfs, and page 27, paragraph 31, you
25 conclude that for purposes of administration 183

1 cfs is based on this prior determination you made
2 of the historical --

3 A. Which one?

4 Q. Paragraph 31 at page 27.

5 A. Okay.

6 Q. You are making a determination of
7 material injury there; aren't you? You say down
8 in the paragraph, "Material injury will cease
9 when." And it goes on, and it says, "seasonal
10 maximum reaches 183 cfs."

11 So there you are saying that the full
12 extent of Blue Lakes' injury is relieved, is
13 satisfied when Blue Lakes receives 183 cfs, and
14 that's less than the decreed amount?

15 A. Correct. And all that this is saying
16 is that; whereas, Blue Lakes is authorized to
17 divert up to the maximum amount of the water
18 right for the various reasons, which you are free
19 to disagree with, obviously, but for the
20 rationale laid out here, we were only going to
21 curtail junior-priority ground water use to
22 provide the 183 cfs.

23 Q. Why?

24 A. For the various reasons that are laid
25 out.

1 Q. Because of your determination back in
2 paragraph 59 of page 13, that 184.7 cfs is the
3 maximum amount known to be diverted by Blue
4 Lakes?

5 A. That's correct.

6 Q. So you are determining how much of the
7 right you are going to recognize for purposes of
8 administering junior ground water rights --

9 A. No.

10 Q. -- to be 183 cfs?

11 A. No. We're saying that Blue Lakes is
12 entitled to curtailment of junior-priority rights
13 to provide the 183 cfs.

14 Q. And why not 197.06?

15 A. Why not the 197?

16 Q. Yes.

17 A. Well, in part -- I mean, part of it had
18 been subordinated. We're not going to curtail
19 junior-priority -- well, maybe the current person
20 would. I wasn't willing to curtail
21 junior-priority rights to provide water for a
22 portion of a right that had been subordinated.

23 Q. Okay. How much had been subordinated?

24 A. It's the one point, whatever, cfs.

25 Q. That was subordinated to whom?

1 A. It was the country club. It was the
2 nighttime irrigation.

3 Q. So that was an agreement by Blue Lakes
4 that it would not call for curtailment of the
5 country club's water right to the extent of one
6 point cfs?

7 A. And you probably will disagree with
8 this principle. But a right holder doesn't have
9 the right to select who he's going to curtail. I
10 mean, you can't selectively subordinate.

11 Q. Why not?

12 A. Because it puts more of the burden on
13 the juniors.

14 Q. You mean, I can't as a water user agree
15 for whatever reason, maybe Phil pays me a whole
16 bunch of money, to say, leave my water right
17 alone when it comes to curtailment to deliver
18 water to you. I say, "Okay."

19 A. Of course you can.

20 Q. I can make that individual agreement
21 with Phil?

22 A. Of course, you can.

23 Q. And you are saying that affects whether
24 John's water right is going to be curtailed to
25 deliver my water --

<p style="text-align: right;">Page 279</p> <p>1 A. No.</p> <p>2 Q. -- that agreement with Phil?</p> <p>3 A. It could. I mean, here's the</p> <p>4 situation, I guess, you've got right holder A</p> <p>5 with the senior-priority diverting from the</p> <p>6 source, right holder B junior-priority, the same</p> <p>7 source. Right holder A's right isn't being</p> <p>8 filled. Let's say, it's 10 cfs, that it's short</p> <p>9 10 cfs, and the 10 cfs could be diverted and</p> <p>10 beneficially used.</p> <p>11 Right holder B, the junior, is</p> <p>12 diverting 10 cfs. And but for a subordination</p> <p>13 agreement, right holder B would be curtailed.</p> <p>14 But right holder A has said, okay. I'll agree to</p> <p>15 an exchange for whatever consideration not to</p> <p>16 seek your curtailment. Instead I'm going to go</p> <p>17 to right holders C, D, E, and so on. We're going</p> <p>18 to curtail them to, so I get my 10 cfs.</p> <p>19 Q. What's wrong with that?</p> <p>20 A. You can't do that.</p> <p>21 Q. What statute, or case, or rule --</p> <p>22 A. Because --</p> <p>23 Q. -- or rule provides the principle that</p> <p>24 you just enunciated?</p> <p>25 A. It's not in the rules. It's not in the</p>	<p style="text-align: right;">Page 281</p> <p>1 administration?</p> <p>2 A. No, it's not that we weren't willing to</p> <p>3 recognize it. We recognized the quantity as the</p> <p>4 maximum amount to be diverted. Fine.</p> <p>5 Q. But for purposes of administering --</p> <p>6 A. No, for seeking the curtailment of</p> <p>7 juniors.</p> <p>8 Q. However you want to put it.</p> <p>9 A. Yeah, I determined that it wasn't</p> <p>10 appropriate to curtail juniors for a quantity</p> <p>11 that had not been diverted.</p> <p>12 Q. And that is on the basis of this</p> <p>13 finding in paragraph 59?</p> <p>14 A. Not only that. I mean, go to your own</p> <p>15 information from 19 -- what was it -- 77 --</p> <p>16 Q. Uh-huh.</p> <p>17 A. -- where you pointed to 190 cfs. I</p> <p>18 still think it's the right assumption, if you</p> <p>19 will, or the reasonable assumption is to assume</p> <p>20 that Pristine Springs' 25 cfs is included in the</p> <p>21 that 190. And if that's the case, then the</p> <p>22 amount Blue Lakes was diverting was 165 cfs.</p> <p>23 Q. So was it licensed incorrectly?</p> <p>24 A. It was licensed the way it was</p> <p>25 licensed. And, you know, whether it's incorrect</p>
<p style="text-align: right;">Page 280</p> <p>1 statutes. It is a principle of administering</p> <p>2 water under the prior appropriation system.</p> <p>3 Q. What --</p> <p>4 A. You can't impermissibly shift the</p> <p>5 burden to juniors that otherwise wouldn't have</p> <p>6 been curtailed, but for your subordination.</p> <p>7 Q. From what case do you get that</p> <p>8 principle?</p> <p>9 A. Oh, I think there is case law. I can't</p> <p>10 recall right off the top of my head what case I</p> <p>11 would point to. But I think there is case law on</p> <p>12 that.</p> <p>13 Q. There is no statute that --</p> <p>14 A. No, there is no statute.</p> <p>15 Q. And there is no rule that supports that</p> <p>16 principle?</p> <p>17 A. Not that I'm aware of.</p> <p>18 Q. Okay. So notwithstanding that theory,</p> <p>19 that covers 1.3 cfs.</p> <p>20 A. Uh-huh.</p> <p>21 Q. Still 183 is 14.06 cfs less than the</p> <p>22 decreed amounts of Blue Lakes' water rights. So</p> <p>23 what is the basis for the remainder of the water</p> <p>24 right that you are not recognizing the remainder</p> <p>25 of the water right for purposes of</p>	<p style="text-align: right;">Page 282</p> <p>1 or not, that's the license.</p> <p>2 Q. The conclusion from your observations</p> <p>3 is that it was licensed incorrectly; right?</p> <p>4 A. I didn't say that. I just said it was</p> <p>5 licensed the way it was licensed.</p> <p>6 Q. Do you believe the licensed amount was</p> <p>7 correct.</p> <p>8 A. I don't know. It was licensed the way</p> <p>9 it was licensed.</p> <p>10 Q. The aggregate licensed amount was</p> <p>11 197.06 cfs; correct?</p> <p>12 A. They were licensed the way they were</p> <p>13 licensed. And in other rights that we've</p> <p>14 investigated, we know that there have been</p> <p>15 licensing errors.</p> <p>16 Q. So this is a licensing error?</p> <p>17 A. I didn't reach that conclusion.</p> <p>18 Q. But you --</p> <p>19 A. I just said, I can't tell you why it</p> <p>20 was licensed at that amount.</p> <p>21 Q. But you don't think --</p> <p>22 A. But it was licensed at that amount.</p> <p>23 That was the basis for our recommendation to the</p> <p>24 SRBA. And that quantity as decreed is the</p> <p>25 amount, the maximum amount that Blue Lakes is</p>

1 authorized to divert, period to divert.

2 Q. It's not the maximum amount that's
3 authorized to call for; was it, under your
4 version of findings?

5 A. In my view, to seek curtailment.
6 That's correct.

7 Q. So its priority does not apply --

8 A. Sure, its priority applies.

9 Q. -- there is a difference between -- no.
10 The effect of priority is as against other water
11 users; correct? The purpose of priority is for
12 distributing water in times of shortage; correct?

13 A. Correct.

14 Q. So the import of Blue Lakes' priority
15 is the extent to which it will be recognized in
16 times of shortage by the Department for purposes
17 of delivering water; correct?

18 A. We're not talking about the priority.
19 We're talking about the quantity associated with
20 the priority.

21 Q. But what you are saying is, you will
22 only administer Blue Lakes' priority as against
23 junior ground water right users to the extent of
24 184.7 cfs; correct?

25 A. Actually, to the extent of 183 cfs.

1 Q. Correct. So you have deduced the
2 decreed amount of the water right that you will
3 recognize for purposes of administering Blue
4 Lakes' priority has against junior ground water
5 rights?

6 A. That's your characterization. That's
7 not mine. My characterization is, it's not
8 appropriate to seek the curtailment of junior
9 rights in distributing water in an amount that
10 has not been previously diverted to beneficial
11 use.

12 Q. So the difference between the way I put
13 it, and the way you just put it, is you are
14 saying that Blue Lakes isn't entitled to make a
15 call for enforcement of its priority against
16 junior ground water owners for any more than 183
17 cfs?

18 A. Again, that's your characterization,
19 not mine. Blue Lakes is entitled to make a call
20 any time that it believes junior-priority rights
21 are interfering with its senior right.

22 Q. So then the real issue is whether it's
23 the Department's responsibility to respond to the
24 call?

25 A. That's the issue.

1 Q. Okay. So your conclusion is, the
2 Department's obligation to respond to the Blue
3 Lakes call to curtail junior ground water holders
4 extends only to 183 cfs, because of your finding
5 that Blue Lakes hasn't used more than that in the
6 past, and subordinated 1.3 cfs to the Country
7 Club; is that correct?

8 A. That's correct.

9 Q. Okay. Are you familiar with the
10 reconstruction of American Falls Reservoir in
11 1977?

12 A. Generally.

13 Q. Do you know that that occurred in the
14 fall of 1977?

15 A. I don't know when it occurred. I know
16 it occurred in about that time frame.

17 Q. So that may have affected the October
18 1977 measurement?

19 A. It may have, or it may not have. I
20 don't know. Lots of things could have affected
21 that October 1977 measurement.

22 Q. Just like Pristine's predecessor may or
23 may not be diverting water it was entitled to;
24 correct?

25 A. Well, we believe it was.

1 Q. And the same kind of bare assumption
2 without any supporting information?

3 A. I disagree with that. I've reached
4 that conclusion based upon the entirety of what
5 was in the water rights file.

6 Q. Okay. And, again, this October 1977
7 measurement shows that there was still a
8 sufficient amount of water being diverted into
9 the Perrine Ditch in October of 1977 to deliver
10 the full 45 cfs to the second priority of Blue
11 Lakes right; isn't that correct?

12 A. That would appear to be correct.

13 Q. So from the two data points that you
14 have from different seasons of the year for 1977,
15 showing that there was adequate water to fill the
16 full decrees of the licensed amount of that water
17 right; correct?

18 A. At two points in time, that's correct.

19 Q. Now --

20 A. Or I should say, it appears to be
21 correct at two points in time.

22 Q. Okay. Now, with respect to the Eastern
23 Snake Plain Aquifer, in your experience has the
24 Department ever distinguished between natural and
25 artificial ground water in the aquifer for the

1 purposes of administration?

2 A. No.

3 Q. Okay. In other words, once the water
4 is in the aquifer for purposes of distribution,
5 it doesn't matter where it came from, whether it
6 came from seeping through a canal, or seeping
7 through a stream that was fed by natural flow
8 from the mountains; correct?

9 A. Well, it matters, but it's still
10 subject to appropriation.

11 Q. And still subject to priority
12 distribution; correct?

13 A. Sure.

14 Q. And for those purposes, it doesn't
15 really matter where the water came from in terms
16 of the Department implementing its
17 responsibilities of the law?

18 A. It can matter. I'll give you another
19 example, I suppose. If you have a significant
20 amount of leakage from a canal that can be -- and
21 the canal owner, for whatever reason, chooses not
22 to capture that leakage and apply it to
23 beneficial use, an appropriator can -- under
24 Idaho law can appropriate that water as waste
25 water.

1 And I think it's important when that
2 appropriation is made to recognize what the
3 source of that water is, it's waste water. And
4 it can affect how the right is subsequently
5 administered. Because in this hypothetical
6 example, the canal company repairs whatever was
7 contributing to the leakage, and the waste water
8 is no longer there. Can the holder of that waste
9 water right seek the curtailment of
10 junior-priority rights? Generally, no, unless
11 they are from the same source of waste water.

12 Q. But as between two appropriators,
13 whatever water is there, whether it's there by
14 waste or some other means, priority distribution
15 applies?

16 A. Certainly.

17 Q. You distribute in accordance with
18 priority?

19 A. Sure.

20 Q. Now, with regard to mitigation, during
21 the hearing last year, it was petitioned for
22 reconsideration for the extent of the credit that
23 it was given for its '05 mitigation. Do you
24 recall that hearing?

25 A. Well, in general, I don't.

1 Q. Do you recall being the Hearing Officer
2 for that hearing?

3 A. Sure, I was, but that doesn't mean I
4 remember aspects of it.

5 Q. I'm just asking if you recall it?

6 A. I recall the hearing.

7 Q. Okay. And do you recall a statement
8 you made at the end of the hearing, that in your
9 view, mitigation that is offered as an
10 alternative to curtailment, the curtailment has
11 to be as real as curtailment?

12 A. Yes.

13 Q. Can you explain what you mean by that,
14 or meant at the time?

15 A. Well, I think it's pretty simple.
16 That, you know, to the extent curtailment would
17 produce a meaningful amount of water to the
18 holder of a senior right that's being injured, if
19 that out-of-priority depletion is going to be
20 mitigated such that the out-of-priority diversion
21 can continue, then the mitigation has to produce
22 an equal amount of meaningful water supply to the
23 senior as would have curtailment.

24 Q. In other words, it has to have an
25 equivalent effect of curtailment?

1 A. That's another way to put it, yes.

2 Q. Okay. Now, in your order on page 28,
3 as I understand it, in addition to identifying
4 curtailment as an outcome, you offer three
5 mitigation alternatives. And I want to confirm
6 that with you.

7 On page 28, under paragraph 1, in the
8 middle of the paragraph. There is a sentence
9 that in part reads, "Must submit a plan or plans
10 to the Director to provide mitigation by
11 offsetting the entirety of the depletions for the
12 ESPA under such rights."

13 A. Yes.

14 Q. I'll call that mitigation alternative
15 number 1. Now, does that mean offset the
16 entirety of consumptive use of water under the
17 identified ground water rights, whatever they
18 are?

19 A. Yes.

20 Q. Okay.

21 A. Another way to look at it is, you
22 completely mitigate the depletions of the
23 aquifer. It's a pretty high standard, but you
24 completely mitigate depletion of the aquifer.
25 That's what that phrase meant.

1 Q. And did you have any ideas about how
2 that would be implemented? How it would be met?

3 A. I did not.

4 Q. And with respect to the second method,
5 as I understand it, it was deliver a specific
6 quantity of water to Blue Lakes' headgate?

7 A. Correct.

8 Q. Is that correct?

9 A. Correct.

10 Q. Based on your 20 percent assessment
11 that the Blue Lakes' springs flow and the Alpheus
12 Creek flow would have been 20 percent of the
13 reach of what it was; correct?

14 A. Correct.

15 Q. And the third method was to mitigate,
16 basically, to the reach, and do that over
17 time -- up to, in this reach, up to 51 cfs?

18 A. Correct.

19 Q. And the standard that you mentioned
20 before of certainty applies to any one of these
21 mitigation alternatives; is that correct?

22 A. Correct.

23 Q. And is it your view that the ground
24 water users met their obligation in 2005?

25 A. What they proposed, when they proposed

1 it, you know, what we finally -- and I don't
2 remember exactly what we finally approved. But
3 what we finally approved would have been based
4 upon a determination that we expected it would
5 provide the equivalent amount of water to
6 curtailment.

7 Q. And in the after-the-fact accounting,
8 did you find that they provided the amount of
9 mitigation required?

10 A. I don't recall.

11 Q. Okay. And then with respect to 2006,
12 what, in your view, happened with respect to the
13 mitigation that was supposed to be provided by
14 ground water users in 2006?

15 A. I don't recall. I would have to go
16 back and look at the history of what happened. I
17 just don't remember.

18 Q. Okay. Now, yesterday you talked about
19 mitigation being evaluated in terms of its steady
20 state effects; is that correct?

21 A. Correct.

22 Q. So I take it then that the mitigation
23 plans were not to be evaluated in terms of their
24 transient effects; is that correct?

25 A. I'm not sure that's entirely correct.

1 You know, in an effort to keep this as
2 straightforward as we could, given the myriad of
3 complexities, the assumption essentially was made
4 that if the effects were equivalent at steady
5 state, they essentially would be equivalent
6 during the transient conditions prior to steady
7 state.

8 Q. Okay. So the mitigation provided in
9 2005, for example, 10 cfs, that was evaluated at
10 steady state; correct?

11 A. Right.

12 Q. So each of the year's mitigation was to
13 be evaluated at steady state?

14 A. Correct.

15 Q. Okay. And then similarly, performance
16 after the fact was evaluated at steady state
17 using the model?

18 A. Correct.

19 Q. Now, I would like you to turn to
20 Exhibit 35. I know you weren't involved in
21 preparing this order, because it was issued this
22 year. I want to ask you a question, and see if
23 you can answer based on what your testimony and
24 your involvement in mitigation prior --

25 A. I have to tell you, I've never seen

1 this, of course.

2 Q. You've never seen it?

3 A. No.

4 Q. Well, maybe it's better that I just ask
5 you this: The water that would result from a
6 mitigation activity in a year at steady state, as
7 you discussed, would be evaluated over the course
8 of many years; correct?

9 A. Yes.

10 Q. So under the mitigation options that
11 you offered, it wouldn't be appropriate to
12 evaluate a mitigation plan only in terms of its
13 first-year benefits, of the benefits that would
14 result from the mitigation activities that
15 occurred in the same year?

16 A. Well, that isn't the framework that I
17 set up in the orders that I issued, but I'm not
18 prepared to say it would be inappropriate. I
19 mean, the general principle that you are trying
20 to apply is that in any year, if out-of-priority
21 diversion and depletion is going to occur, then
22 the amount of that depletion that causes injury
23 needs to be replaced. And if it's not replaced,
24 then curtailment should occur.

25 Now, I don't know the context of that

1 question. But is it inappropriate to do it on
2 the year-by-year basis? Not necessarily. What I
3 did is I looked at mitigation at steady state,
4 under the assumption that each and every year up
5 to steady state, would essentially be equivalent
6 to curtailment.

7 Q. Okay. So --

8 A. But that doesn't mean that you couldn't
9 craft a mitigation -- a different type of
10 mitigation on a year-by-year basis through time,
11 address the amount of that particular year.

12 Q. So the obligation for 2007, for
13 example, you know from your prior order is 30 cfs
14 for the reach that Blue Lakes is in; correct?

15 A. I believe that's correct, yes.

16 Q. So for whatever was to be proposed for
17 2007, would have to produce either at steady
18 state, or during whatever time frame is desired,
19 30 cfs to the reach; isn't that correct?

20 A. Well, under my order, it would have had
21 to produce 30 cfs at steady state conditions
22 under the order that I issued.

23 Q. Now, have you heard the anecdotal
24 evidence the term was used the springs'
25 users -- that I have heard springs' users give

1 discharge with when the pumps went on. And as I
2 recall, we could not detect any pattern in any
3 spring complex.

4 But, you know, there were, not
5 surprisingly, right holders that did not allow us
6 to put on hour meters. As I recall, there were
7 some that didn't allow it. And we perhaps could
8 have found some statutory basis for mandating it.
9 But we didn't -- I don't recall that we pursued
10 it. So we put the hour meters on the pumps where
11 we could.

12 Q. And finally, there has been a
13 characterization of your May 19th, 2005 orders as
14 emergency orders. Is there a statutory or
15 regulatory provision for the issuance of
16 emergency orders by the Department that you know
17 of?

18 A. I believe so. I'd have to look at the
19 order to see what we cited. You know, I believe
20 that the applicable statutory provision is Idaho
21 Code 67-5247.

22 Q. Is that referenced in your order?

23 A. Yes, it is.

24 Q. At what paragraph?

25 A. Page 31, the top of the page.

1 that they observed their springs to decline from
2 the beginning of when the irrigation season
3 starts to occur when the pumps go on?

4 A. I believe I've heard that assertion,
5 yes.

6 Q. During your time with the Department,
7 have you or the Department done anything to
8 follow-up and investigate those reports further?

9 A. We have.

10 Q. Okay. And what did you do?

11 A. Oh, boy. It was a study that, I
12 believe it was Tim Luke, that we asked to have
13 done. I think it was Tim Luke. If it wasn't
14 Tim, it was somebody in his section.

15 But essentially what we did, or what I
16 asked him to do was to install hour meters on the
17 pumps, which would then record the time, the
18 specific time that those pumps went on, and then
19 state the specific time when the pumps went off.

20 And then the evaluation that was to be
21 conducted to see if we could detect or discern
22 any correlation between when the pumps went on,
23 as documented by the hour meters and measured
24 spring discharged, to see whether there was any
25 correlation in the diminishment of spring

1 Q. Okay. And the order in any case was, I
2 take it, within the process provided by the
3 Conjunctive Management Rules; is that correct?

4 A. As I understood the rules, that is
5 correct.

6 Q. Okay. So if -- it wasn't an emergency
7 in terms of your application of the Conjunctive
8 Management Rules; was it?

9 A. I'm not sure I understand your
10 question. I mean, the emergency was, we were at
11 the beginning of the irrigation season. The
12 senior right holders needed some certainty as to
13 what was going to happen. The junior right
14 holders needed certainty as to what was going to
15 happen. That was the emergency.

16 Q. So it was an emergency only in terms of
17 timing? In other words, in the normal
18 administrative process, as you've described it,
19 watermasters administer water rights according to
20 the decrees, licenses, permits without the
21 director issuing an order; isn't that correct?

22 A. Not in all cases.

23 Q. But normally?

24 A. No.

25 Q. Was it normal for you, while you worked

<p style="text-align: right;">Page 299</p> <p>1 for the Department, to issue orders before leases 2 go, for example, administer water rights in the 3 Boise?</p> <p>4 A. Not in the Boise -- not -- generally, 5 not in the Boise. But in Big Lost, we generally 6 issued an order every year instructing the 7 watermaster how to determine and apply the Futile 8 Call Doctrine. And it was done by order. And it 9 was most every -- not absolutely every year, but 10 most every year we did that.</p> <p>11 Q. And you didn't issue an order in the 12 Clear Lakes versus Crystal Springs situation; did 13 you? At least issue instructions --</p> <p>14 A. No instructions.</p> <p>15 Q. -- an order that was subject to itself 16 appealed by its terms?</p> <p>17 A. Sure, it was subject to appeal.</p> <p>18 Q. In fact, you were very careful in those 19 instructions to notify the parties that they were 20 instructions related to the watermaster and not 21 an order?</p> <p>22 A. Sure. But those instructions still 23 represented a determination, that if an entity 24 disagreed with that determination, they were 25 entitled to a hearing pursuant to Idaho Code.</p>	<p style="text-align: right;">Page 301</p> <p>1 looked at, flow data, Department files, 2 information available to you. At the time, you 3 completed those investigations, did you believe 4 you had sufficient information and data to make 5 the determinations you made in the orders?</p> <p>6 A. I'm trying to think of how best to 7 characterize it. Did we have all the information 8 we would have liked? No. Did we feel that we 9 were required to take action based upon the 10 information we had? Yes. I suppose whether it's 11 sufficient is up for debate.</p> <p>12 Q. Well, once you received the information 13 that you had, and you conducted your 14 investigation of the Department files, did you 15 then go back and request additional information 16 from Clear Springs?</p> <p>17 A. In all instances, the first response to 18 the delivery call was to request information from 19 the right holder making the delivery call. So I 20 don't know at what point -- did we go back at is 21 later point in time and ask for more information? 22 The request for information was ongoing.</p> <p>23 And, you know, any Department staff, 24 senior right holder, Clear Springs, or ground 25 water folks affected by the order, they were all</p>
<p style="text-align: right;">Page 300</p> <p>1 Q. And do the Conjunctive Management Rules 2 specifically provide the issuance of an order 3 before water rights are administered under its 4 provisions?</p> <p>5 A. I think the correct answer there is, 6 no, they don't require that it be done, but they 7 don't preclude that it be done. And so in this 8 particular case, with the string -- string -- 9 with the sequence of delivery calls that had been 10 made, you know, I wasn't precluded from the 11 Conjunctive Management Rules for issuing the 12 instructions in the form of an order. And that's 13 what I chose as providing the most complete 14 possible due process for all involved.</p> <p>15 MR. STEENSON: Okay. Thank you, Karl.</p> <p>16 MR. SIMPSON: I'm next.</p> <p>17 EXAMINATION</p> <p>18 QUESTIONS BY MR. SIMPSON:</p> <p>19 Q. Karl, almost good afternoon. I'm John 20 Simpson, again, for the record, representing 21 Clear Springs Foods.</p> <p>22 Karl, with respect to the 23 investigations that you undertook once the 24 delivery calls were made, and you've recited this 25 morning and then yesterday, the documents you</p>	<p style="text-align: right;">Page 302</p> <p>1 free to give us additional information at any 2 time that would be pertinent. And, in fact, if 3 that information was supplied and warranted 4 amending the order, we would have amended the 5 order.</p> <p>6 Q. But to the best of your knowledge, once 7 the initial disclosure of information, or before 8 the disclosure of information by Clear Springs 9 was made by the Department, the Department did 10 not then go back and seek additional information, 11 or subsequent to the initial order, amend the 12 order?</p> <p>13 A. We didn't amend the order based upon 14 any information that Clear Springs would have 15 provided subsequently. But, again, the initial 16 request for information was ongoing in my view, 17 which made any subsequent requests unnecessary.</p> <p>18 Q. Do you recall yesterday the testimony 19 you gave regarding the model cells, and the more 20 information and the more results you look across 21 the number of cells, instead of looking at one 22 cell, the more accurate the estimation within a 23 particular subreach? Do you recall that 24 testimony?</p> <p>25 A. Yes. I don't know that you completely</p>

<p style="text-align: right;">Page 303</p> <p>1 accurately re-characterized it.</p> <p>2 Q. Generally.</p> <p>3 A. But I remember the testimony.</p> <p>4 Q. The general testimony?</p> <p>5 A. Yes. Uh-huh.</p> <p>6 Q. All right. And is that because in a</p> <p>7 particular cell, that, obviously, the data points</p> <p>8 that you have may be limited, so in terms of</p> <p>9 looking at more than one cell across a reach, it</p> <p>10 may give you a better estimation?</p> <p>11 A. A better estimation of what?</p> <p>12 Q. Of the results from a model run.</p> <p>13 A. Well, the results of a model run are</p> <p>14 generally better when they are across a sequence</p> <p>15 of cells, that's correct, rather than from an</p> <p>16 individual cell. That is correct.</p> <p>17 Q. And is that in part, because there are</p> <p>18 more data points to review to look at in terms of</p> <p>19 that model run?</p> <p>20 A. Well, I suppose in part, but that's not</p> <p>21 the primary reason. The primary reason is</p> <p>22 because of the basic assumption where we're</p> <p>23 representing a nonhomogenous material within a</p> <p>24 cell, essentially, a homogenous material within</p> <p>25 that cell.</p>	<p style="text-align: right;">Page 305</p> <p>1 that's true. And there are other places, you</p> <p>2 could have a cell where there might be two</p> <p>3 observation points. I don't know.</p> <p>4 Q. But the distribution of well data and</p> <p>5 measuring points from well data, and geological</p> <p>6 information from wells likely was greater in</p> <p>7 cells abutting the Snake River than it was in the</p> <p>8 middle of the aquifer; wouldn't that be true?</p> <p>9 A. I don't know that I would agree with</p> <p>10 that in terms of the "abutting" thing. I mean,</p> <p>11 there was more well information, meaning ground</p> <p>12 water level information, in groupings of cells</p> <p>13 where there was intense ground water irrigation.</p> <p>14 And where there was no ground water</p> <p>15 irrigation, which exists in large parts of</p> <p>16 the -- across large parts of the aquifer system,</p> <p>17 there would have been few observation points.</p> <p>18 But they wouldn't -- those cells -- the groupings</p> <p>19 of cells that would have the largest number of</p> <p>20 observation points, wouldn't have necessarily had</p> <p>21 to abut and deliver for ground water levels.</p> <p>22 Now, for spring discharge, and you only</p> <p>23 have spring discharge where there are springs</p> <p>24 that discharge, and that could only exist in the</p> <p>25 cells in the spring reaches.</p>
<p style="text-align: right;">Page 304</p> <p>1 And so that representation is better</p> <p>2 across a range of cells, rather than in an</p> <p>3 individual cell basis. In a particular cell, you</p> <p>4 may or may not have an observation point. It's</p> <p>5 likely you would, but you may not have.</p> <p>6 Q. For example, in those cells along the</p> <p>7 river, the likelihood is that there were more</p> <p>8 data points than there were in cells that were in</p> <p>9 place in the middle of the aquifer, for example;</p> <p>10 wouldn't that be true?</p> <p>11 A. Not necessarily. You know, an example,</p> <p>12 you only have a discrete number of stream gaging</p> <p>13 stations from which the reach gains were</p> <p>14 computed. And an individual cell in the river</p> <p>15 may or may not have the stream gaging station.</p> <p>16 Q. But a cell, which contained the Canyon</p> <p>17 wall and back into the aquifer, for example,</p> <p>18 likely would have more data points if you are</p> <p>19 looking at data points being ground water wells</p> <p>20 and the observations there, geologically and</p> <p>21 water flow data, than a data point -- or excuse</p> <p>22 me -- the cell in the middle of the aquifer where</p> <p>23 you may have only one piece of well data?</p> <p>24 A. Well, there are places in the middle of</p> <p>25 the aquifer where there is no well data. I mean,</p>	<p style="text-align: right;">Page 306</p> <p>1 Q. Do you recall your testimony yesterday</p> <p>2 when you were asked a question regarding the</p> <p>3 source of water to satisfy the Swan Falls</p> <p>4 minimums of 3,900 and 5,600?</p> <p>5 A. I don't recall the question about the</p> <p>6 source. I recall the discussion about the Swan</p> <p>7 Falls agreement and the 3,900 and 5,600.</p> <p>8 Q. Well, what would be the sources of</p> <p>9 water to satisfy the Swan Falls minimums?</p> <p>10 A. Okay. I guess we did talk about</p> <p>11 source, as I recall. It would be spring</p> <p>12 discharge, primarily, with some added component</p> <p>13 from return flows downstream of the springs.</p> <p>14 Q. And in addition to those two sources</p> <p>15 you identified, would flows that pass Milner also</p> <p>16 be a component of water to satisfy 3,900 or</p> <p>17 5,600?</p> <p>18 A. In some cases, yes. In other cases,</p> <p>19 no.</p> <p>20 Q. Explain that, please.</p> <p>21 A. Well, the largest flows -- well, I</p> <p>22 shouldn't even put it that way.</p> <p>23 During the irrigation season, the</p> <p>24 largest flow is past Milner. Presently, I</p> <p>25 believe, are derived from flow augmentation</p>

<p style="text-align: right;">Page 307</p> <p>1 rentals by the Bureau of Reclamation, where they 2 are renting storage space -- or not renting 3 space -- but they are renting storage water to be 4 released past Milner for endangered species 5 issues downstream. 6 Our interpretation, or at least my 7 interpretation of the Swan Falls Agreement, would 8 require that those flows for that purpose, 9 because they are used for hydropower generation 10 within the state of Idaho, be added to the Swan 11 Falls minimum. So in that case, they would not 12 go towards meeting the Swan Falls minimum. 13 But in other cases, where the rentals 14 are not made for the purpose of hydropower 15 production wouldn't receive any below Milner that 16 would fit -- that would meet that category. I 17 guess there is the bypass flows, the Firth bypass 18 flows at Milner. Those would go -- in my view, 19 would go towards meeting the Swan Falls minimums 20 as a category that would. And I have already 21 given you the category that would not. 22 Q. Any natural flow that would be 23 appearing in the river below Milner would be 24 counted towards the Swan Falls minimums? 25 A. No, I wouldn't say that, because here</p>	<p style="text-align: right;">Page 309</p> <p>1 that the method that we're currently -- "we," the 2 USGS is currently applying to determine these 3 cumulative spring discharges is either the same, 4 or at least compatible with the methods that were 5 employed earlier for these 4,200 cubic feet per 6 second. 7 And as I recall, essentially, the 8 method consists of discrete measurements at a 9 number of springs, but not all springs. And then 10 a weighting factor is applied to the measured 11 springs to calculate an estimated cumulative 12 discharge. 13 I mean, it's not done just at one 14 springs. You have a whole series of springs, a 15 whole series of weighted factors. And the 16 combination of measured discharge and weighting 17 factors at all the measured springs results in 18 this calculation. 19 For various reasons, the springs that 20 are used as the discrete points of measurement 21 have changed with time, but so have the weighting 22 factors. But as I recall, the conclusion that 23 Bill came to was that the methodology was 24 consistent and compatible. 25 Q. But did Bill ever go back and actually</p>
<p style="text-align: right;">Page 308</p> <p>1 again, you have the Bureau of Reclamation renting 2 natural flow derived from the nondiversion of 3 Bell Rapids. And that amount that they rent is 4 added to the Swan Falls minimums. 5 Q. Okay. On Exhibit 61, which is the 6 Clear Springs order. Karl, looking back at 7 Attachment A, would you refer to extensively, and 8 I believe Attachment A is the same attachment for 9 either the Blue Lakes order or the Clear Springs 10 order, and we'll call it the Snake River Farms at 11 this point? 12 A. Correct. 13 Q. And that, again, is a graphical 14 depiction of the annual spring discharge in the 15 Snake River and Thousand Springs area. 16 A. Correct. 17 Q. Yesterday, the questions in your 18 testimony regarding the flows going from 19 approximately 4,200 cfs up to about 6,800 cfs. 20 With respect to that 4,200 cfs number that's 21 identified in this graph, did you undertake any 22 independent analysis to verify that number? 23 A. I, myself, did not perform any such 24 analysis. But on several occasions, I asked Bill 25 Ondrechen at the time to go back and make sure</p>	<p style="text-align: right;">Page 310</p> <p>1 verify the basis for the 4,200 cfs number, or the 2 accuracy of that number itself? 3 A. I believe he recalculated the number 4 and got -- you know, was very close. His 5 recalculation of it was very close to it. 6 Q. But he used the same methodology, and 7 the same assumptions that were present for the 8 individuals who originally made those? 9 A. As best as we could, yes. 10 Q. Right. But did it independently 11 determine whether that methodology was or was not 12 accurate based upon all the data that might have 13 been available at the time, including but not 14 limited to, irrigation deliveries on the North 15 Side system, or on the North Side of the spring 16 reaches? 17 A. I won't say that he didn't 18 independently verify the adequacy of it. But 19 that wasn't the focus. The focus -- I mean, it 20 was a USGS technique methodology. We accepted it 21 as being valid. And our question was more to the 22 fact, has it been consistently applied through 23 time, and could we, in fact, go back and 24 reconstruct this relationship? And the answer 25 was, essentially, yes, we could go back and</p>

1 reconstruct it. Not maybe exactly, but
2 essentially, we could. It was reconstructible.

3 Q. Do you recall in your testimony
4 yesterday you were asked a series of questions
5 regarding the winter water savings agreements,
6 and the water associated with winter water
7 savings?

8 A. Yes.

9 Q. And generally, is it your understanding
10 that that winter water savings water was water
11 that various canals above Milner diverted year
12 round into their canal systems for stock water
13 employed by water purposes?

14 A. Yes.

15 Q. And would it also be true that their
16 irrigation deliveries during the irrigation
17 season exceeded what water they continued to
18 divert during the non-irrigation for that stock
19 water employed by water purposes?

20 A. Certainly.

21 Q. And so likewise, those winter water
22 diversions would have simply been diversions into
23 the canal systems and not application onto the
24 land?

25 A. That's generally my understanding. But

1 I suspect -- I don't have any proof -- but, I
2 mean, I would suspect that there may have been
3 some early -- I'll call it early season
4 irrigation prior to the authorized season of use.
5 And likewise, there probably was some late season
6 irrigation occurring after the authorized season
7 of use.

8 Q. But generally speaking, that water that
9 was diverted for winter water would have remained
10 in the canal system, but for some early or late
11 irrigation needs?

12 A. I believe that's the case, yes.

13 MR. RASSIER: Now, John, this
14 deposition was noticed up for 130 calls; right?
15 And it seems like some of the areas you are going
16 into may not be relevant to the 130 calls.

17 MR. SIMPSON: Well, Phil, Mr. Budge did
18 ask questions about this. And primarily, on this
19 subject, at least it's related to seepage into
20 the aquifer, and associated changes in aquifer
21 levels with respect to the Thousand Springs
22 reach.

23 Yesterday, in addition, Mr. Budge did
24 ask questions about Swan Falls, and sources of
25 water to meet the Swan Falls minimums. And that

1 Swan Falls is an issue that's been raised to the
2 extent to the delivery call in Thousand Springs
3 reach.

4 MR. RASSIER: Okay. Well, I would like
5 you to keep that in mind, it's 130.

6 MR. SIMPSON: I want to get done, too.

7 Q. (BY MR. SIMPSON) With respect to that
8 year-round diversion, generally speaking, if a
9 canal system was open year round, and water was
10 being diverted year round, the losses associated
11 with diversions into the canal system would take
12 that into account; would they not?

13 That is, the canals wouldn't, as they
14 are done now, have a charging period at the
15 beginning of the irrigation season where losses
16 are greater than they are during normal delivery
17 season?

18 A. That's correct. However, I would
19 estimate that the total losses over a year, over
20 the entire year from a canal like North Side,
21 would be greater when the canal was used year
22 round, than it is presently, when it's only used,
23 say, six months. Even though the initial losses
24 during charging prior to six months of the usage
25 would be greater than the losses later in time.

1 But if you look at the total losses
2 over the entire year, I would suspect that they
3 were larger when the canals were used year round
4 than they are now in total.

5 Q. And any net increase in loss as a
6 result of year-round diversions as compared to
7 how practices are presently, wouldn't you agree,
8 that you would have to subtract out that
9 additional loss that occurs during the charging
10 period for irrigation presently; would you not?

11 A. Subtract it from what?

12 Q. Well, the net, the net change in
13 losses?

14 A. I don't know that you would subtract it
15 out. I mean, the additional losses that occur
16 during the charging of the canal, I would say,
17 would count towards what I have characterized as
18 the total losses during the year.

19 Q. Okay. And the loss associated with
20 charging in today's practices, was not present
21 during the period when there was winter water
22 savings diversions; is that not true?

23 A. I would say, that's generally true.
24 But what I don't know, John, is what the effect
25 of losses would be, because of the ice jams that

<p style="text-align: right;">Page 315</p> <p>1 I've heard Ted Diehl talk about. You know, you 2 hear stories about people going out with dynamite 3 to blow the ice jams up. I don't know what that 4 does to the losses in the canal. 5 If the canal below an ice jamb went dry 6 for some period of time because of an ice jamb, 7 presumably there would be some recharging, 8 perhaps, of that de-watered segment. But whether 9 that would be more or less than if the ice jamb 10 hadn't occurred, or how it compares to today, we 11 don't -- I don't have that. 12 Q. It's difficult to quantify? 13 A. Yeah, it's difficult to quantify, I 14 believe. 15 Q. Would it also be fair to say that, with 16 the winter water savings agreement that did 17 occur, that entities who receive the benefit of 18 those winter water savings agreement procured a 19 better storage supply? 20 A. The entities that participated in the 21 water savings agreements, did they secure a 22 better storage supply? Is that essentially the 23 question? 24 Q. Yes. 25 A. I don't know what you mean by</p>	<p style="text-align: right;">Page 317</p> <p>1 A. That's certainly a reasonable 2 conclusion. 3 Q. Which would have resulted in additional 4 irrigation losses associated with the delivery of 5 that water? 6 A. I don't know that. And here is why: 7 You know, I know that North Side charges a fixed 8 amount of canal loss per share delivered. But 9 physically, the losses associated with between 10 running the canal at 95 percent, or let's say, 90 11 percent capacity versus 100 percent capacity, I 12 don't know that the losses associated with that 13 last ten percent are proportional to the losses 14 associated with the first 90 percent. 15 So it depends upon how this additional 16 storage water is delivered. Is it delivered on 17 top of the natural flow? I mean, North Side is 18 predominately storage, of course. 19 But how much additional storage is 20 delivered by North Side and when, I think, is 21 what you would have to look at. Because if it 22 was just put on top of what was already there 23 during the same time, it may not have a 24 proportionately greater amount of loss. 25 On the other hand, if it extended the</p>
<p style="text-align: right;">Page 316</p> <p>1 better. But certainly their storage supply was 2 firmer because of the diversion into storage of 3 water that otherwise would have been used for 4 year-round stock water and domestic uses. 5 Q. And additional water supply? In the 6 case of North Side, did they not procure a supply 7 in Palisades as a result of the winter water 8 savings? 9 A. Did they incur an additional water 10 supply, because they agreed to the winter water 11 savings? I would say, that is true, because they 12 wouldn't have gotten the contract in Palisades 13 without it. 14 Q. Right. So, for example, if North Side 15 Canal Company, assuming they, as a result of the 16 Palisades contracts, obtained 115,000 acre-feet 17 of additional storage in Palisades with a winter 18 water savings priority. That made available to 19 them additional storage supplies that they did 20 not have then prior to Palisades? 21 A. I agree. 22 Q. So that in most cases, it would have 23 provided them additional water to be delivered in 24 the irrigation season through their canal 25 systems; would it not have?</p>	<p style="text-align: right;">Page 318</p> <p>1 season during which the canal is operated, that 2 could increase the overall losses. 3 Q. Either way, it would have increased the 4 losses? It's just a matter of how much? 5 A. Correct. 6 Q. Because every acre foot diverted there 7 has some loss associated with it? 8 A. I agree. 9 Q. Okay. With respect to surface water 10 administration, how are the calibrated river 11 gages utilized? 12 A. Well, I suppose they are utilized in a 13 couple of different ways. I mean, they can be 14 utilized to calculate reach gains, which are then 15 distributed as natural flow. They can also be 16 utilized to track how much of the flow is natural 17 flow versus storage releases. And then thirdly, 18 they are used -- well, it's sort of related to 19 the natural flow. I mean, that is what is 20 distributed by priority to the right holders. So 21 I've already addressed that. 22 They are also used to do a mass balance 23 from the beginning of the river down to Milner 24 for the purpose of accounting for water use. So 25 natural flow distribution, storage, and</p>

<p style="text-align: right;">Page 319</p> <p>1 accounting would be the three primary uses of 2 those gages. 3 Q. So those gages are basically used daily 4 in administration of water? 5 A. Essentially. Although, you know, they 6 do average -- they do average the gage readings 7 over time, because some of the daily records are 8 suspect. And so to try to, through a process of 9 averaging to try to reduce the error, I wouldn't 10 say that necessarily daily polls are always used. 11 Sometimes it's an average over a three-day, or a 12 seven-day, or whatever the average would be. 13 Q. And in the use of those calibrated 14 gages on surface water administration, as a part 15 of that administration is a clip or a ten percent 16 accuracy calculation factored into that 17 administration? 18 A. Not in the context that you are asking. 19 I'm going to answer it a couple of different 20 ways. I'll bifurcate the answer; okay? 21 Q. Sure. 22 A. But along the main Simmons Snake, for 23 example, unless there is a systemic gage error, 24 which would cause the uncertainty to essentially 25 be biased one way or the other, the assumption is</p>	<p style="text-align: right;">Page 321</p> <p>1 situation where we would say, the 10 cfs was not 2 certain. And therefore, the call was futile and 3 we allowed the juniors to divert 100 cfs. 4 So, essentially, we've clipped the 5 junior use in this hypothetical to ten percent. 6 But, in fact, that is a procedure that we do 7 employ, at least in the Big Lost River in dealing 8 with futile calls, which purely was essentially a 9 surface water determination. 10 Q. And within Water District 01, once that 11 water is in the river, once -- whether the source 12 is from snow pack melt, or from reach gains, 13 we'll say, above Blackfoot, once that water is in 14 the river, it's administered by the gage reads -- 15 A. It is. 16 Q. -- to be delivered to the surface water 17 user -- 18 A. It is. 19 Q. -- is it not? 20 A. It is. 21 Q. So there is no reduction or uncertainty 22 placed upon that delivery to a surface water 23 user? 24 A. There hasn't been, but I would not be 25 surprised to see the issue raised someday when a</p>
<p style="text-align: right;">Page 320</p> <p>1 made that the plus ten percent and the minus ten 2 percent on errors, if you will, cancel each 3 other. 4 Now, having said that, that isn't what 5 we did using the ground water model, nor is it 6 what we do when we use surface water gaging, or 7 surface water measurements in determining futile 8 cost. 9 So, for example, in the Big Lost River, 10 generally did we have to make an annual 11 determination of at what point does the senior 12 call downstream become futile against the juniors 13 upstream? And at what point do we allow the 14 juniors upstream to divert out of priority? It's 15 a fact specific determination that's made on 16 typically a year-by-year basis. 17 But it's somewhat analogous to what we 18 did with the ground water model. In that if the 19 juniors at the upstream end -- and I'll just use 20 100 cfs, that's a hypothetical illustration. 21 If the juniors at the upstream end 22 could divert 100 cfs, but if they were curtailed, 23 10 cfs might reach the downstream senior. How 24 certain is that 10 cfs? And we have made 25 determinations in that instance in the similar</p>	<p style="text-align: right;">Page 322</p> <p>1 junior faces curtailment. 2 You know, again, I'll go back to 3 not -- yesterday's discussion on this. But in 4 Water District 01, since you've used that as an 5 example, you've got something that's available 6 that's not available to the spring users. It's 7 not available to the ground water folks, 8 generally, in that storage. And storage can 9 cover a multitude of errors. 10 Q. Yesterday you discussed the application 11 of a ten percent clip that is basically the line 12 by which if someone was outside of that ten 13 percent line, they were not subject to 14 administration? 15 A. For a particular call. But you know, 16 sometimes some of those people that were outside 17 the line for one call were not outside the line 18 for another. 19 Q. I agree that there could be overlapping 20 lines or intersecting lines with respect to that 21 ten percent line. 22 Would you agree, though, that if you 23 added up those rights that were outside of a line 24 for a particular call, it could amount to a 25 substantial amount of depletions being caused</p>

<p style="text-align: right;">Page 323</p> <p>1 upon the source that is the aquifer?</p> <p>2 A. I haven't done the calculations, so I</p> <p>3 don't know. But remember that at least in terms</p> <p>4 of administering a delivery call, the issue isn't</p> <p>5 depletions to the aquifer. The issue is</p> <p>6 depletions to the hydraulically connected reach</p> <p>7 where the injury has occurred.</p> <p>8 Q. But to the aquifer, there may be some</p> <p>9 substantial depletions to the aquifer as a result</p> <p>10 of the junior ground water pumping that's</p> <p>11 occurring outside of that ten percent clip line?</p> <p>12 A. I don't know. We never -- I don't</p> <p>13 recall if we ever made the determination.</p> <p>14 Q. You just never looked to see the</p> <p>15 number --</p> <p>16 A. Right.</p> <p>17 Q. -- or the volume of rights of the</p> <p>18 depletions occurring upon rights that were</p> <p>19 outside of those lines?</p> <p>20 A. Not directly. Although, you know, I</p> <p>21 believe that there were some model simulations</p> <p>22 done early on with the clip and without the clip.</p> <p>23 But the purpose wasn't to see how much depletion</p> <p>24 of the aquifer was being excluded with the clip.</p> <p>25 The purpose was to see what kind of difference</p>	<p style="text-align: right;">Page 325</p> <p>1 be otherwise subject to curtailment.</p> <p>2 MS. McHUGH: There is --</p> <p>3 THE WITNESS: And I'm having a hard</p> <p>4 time finding it.</p> <p>5 MS. McHUGH: Is it perhaps around 96 of</p> <p>6 the Clear Springs order?</p> <p>7 THE WITNESS: Yes, Candice is correct.</p> <p>8 In Finding 96, it's very specific. "Based on the</p> <p>9 Department's water rights database and</p> <p>10 simulations using Version 1.1 of the Department's</p> <p>11 water model for the ESPA," et cetera, "the</p> <p>12 diversion and consumptive use of ground water</p> <p>13 under water rights having priority dates later</p> <p>14 than the priority dates for Water Right Nos.</p> <p>15 36-7083 and 36-7568 in Water District 120, and</p> <p>16 which have steady state conditions reduce spring</p> <p>17 discharge in the Devil's Washbowl to Buhl Gage</p> <p>18 spring reach by more than ten percent of the</p> <p>19 amount of depletion."</p> <p>20 So the clip was applied to the</p> <p>21 simulated curtailment in 120.</p> <p>22 Q. So, in essence, Water District 120</p> <p>23 ground water rights were found to be outside of</p> <p>24 the clip line?</p> <p>25 A. Correct.</p>
<p style="text-align: right;">Page 324</p> <p>1 did it make in terms of the</p> <p>2 hydraulically-connected reach where injury is</p> <p>3 occurring.</p> <p>4 Q. Okay. Depletion to the</p> <p>5 hydraulically-connected reach?</p> <p>6 A. Yes.</p> <p>7 Q. And with respect to the reach that is</p> <p>8 subject to the delivery calls that you've been</p> <p>9 testifying to here, were the ground water rights</p> <p>10 associated with Water District 120 within or</p> <p>11 outside the ten percent line?</p> <p>12 A. I'll have to look. I don't remember</p> <p>13 offhand. Let me look at the order, the Blue</p> <p>14 Lakes order. I don't know, John, can you help me</p> <p>15 with finding where that's dealt with?</p> <p>16 Q. Well, the closest I could probably</p> <p>17 come, Karl, would be at the bottom of page 38 of</p> <p>18 the Clear Springs order. It cites on page 38, it</p> <p>19 says, "It is further ordered that no additional</p> <p>20 curtailment of a diversion and use of ground</p> <p>21 water under water rights within Water District</p> <p>22 130."</p> <p>23 So your order did not describe, at</p> <p>24 least in that paragraph, that any water rights in</p> <p>25 120, 110, or 100, or other water districts would</p>	<p style="text-align: right;">Page 326</p> <p>1 Q. Would you acknowledge that the ground</p> <p>2 water rights within Water District 120 represent</p> <p>3 a substantial depletion to the aquifer?</p> <p>4 A. To the aquifer, but not necessarily to</p> <p>5 the hydraulically-connected spring reach and the</p> <p>6 spring reaches in the Thousand Springs area. The</p> <p>7 depletions from ground water diversion and use in</p> <p>8 120 occur mainly to the hydraulically-connected</p> <p>9 reaches of the Snake River above Blackfoot -- or</p> <p>10 not Blackfoot, but above, essentially, Neeley.</p> <p>11 Q. Yesterday, do you recall your testimony</p> <p>12 regarding your justification under the</p> <p>13 Conjunctive Management Rules 40.01.A regarding</p> <p>14 phased-in curtailment?</p> <p>15 A. Yes.</p> <p>16 Q. And would it be accurate to state that</p> <p>17 in your view, the phased-in curtailment in this</p> <p>18 case was justified given the requirement of</p> <p>19 providing notice to water rights and water right</p> <p>20 holders of the potential curtailment of their</p> <p>21 rights if mitigation was not provided?</p> <p>22 A. I may not have understood the question,</p> <p>23 but I'll try to answer it the way I understood</p> <p>24 it.</p> <p>25 The provision for phased-in curtailment</p>

<p style="text-align: right;">Page 327</p> <p>1 in Rule 40 -- whatever the number is -- is to 2 provide an orderly transition on an economic 3 basis. I never viewed it as being used to 4 provide notice of potential curtailment. I 5 didn't view it that way. The notice for 6 potential curtailment was to be provided, and I 7 think was provided, directly by the watermaster 8 through letters that were sent to individual 9 right holders.</p> <p>10 Q. So it was purely an economic issue with 11 respect to those rights that might be subject to 12 curtailment if mitigation was provided?</p> <p>13 A. That's my view. And, of course, it's 14 provision rules. It was not a provision that I 15 used absent some basis in rule. It was 16 discretionary. And even though it was 17 discretionary, and I could have chosen not to 18 phase-in curtailment, I chose to phase-in 19 curtailment initially with the plan had I been 20 allowed to see this through of working towards 21 administration without the phasing.</p> <p>22 But in the initial application of this, 23 I thought it was appropriate given it was 24 provided for in the rule. But we were -- from my 25 perspective, had I been here, we were clearly</p>	<p style="text-align: right;">Page 329</p> <p>1 director's responsibility to just simply go out 2 and begin curtailing rights, because the senior 3 might not have sufficient water for his needs. I 4 think he has to call for it.</p> <p>5 Q. Certainly. But at least, 6 initially -- but once you make an injury 7 determination, do you believe you have the 8 authority not to remedy that fully intended 9 injury?</p> <p>10 A. Well, when you look at the entirety of 11 the body of law, including the rules, that 12 authority was conferred through the rules and 13 through their confirmation of the legislature.</p> <p>14 So I think I could answer at this time 15 the opposite way saying that, given that the 16 rules were confirmed by the legislature, didn't I 17 have a responsibility to consider phasing in 18 curtailment, even recognizing that there could be 19 some incremental additional injury incurred by 20 the senior?</p> <p>21 Q. Incremental injury that was not being 22 remedied by your actions?</p> <p>23 A. That's correct.</p> <p>24 Q. But for the rule, this particular rule, 25 would it be your view that you have the duty to</p>
<p style="text-align: right;">Page 328</p> <p>1 headed towards a more -- I'll call it perfunctory 2 system of administration more similar to what 3 occurs currently in surface water systems only.</p> <p>4 Q. Would you agree that once you found 5 material injury, and then chose to phase-in 6 curtailment to alleviate that injury, the senior 7 was still incurring injury during that phased-in 8 period?</p> <p>9 A. Potentially, yes. On the assumption 10 that the shortages that the senior was 11 experiencing were going to continue. The senior 12 was incurring an incremental amount of injury, 13 because the curtailment of mitigation was 14 phased-in, not applied immediately. And I agree 15 there was some incremental amount of injury that 16 occurred.</p> <p>17 Q. Generally, do you understand that once 18 you find injury that it's your job to deliver 19 water to alleviate that injury to protect the 20 senior water right holder?</p> <p>21 A. I believe the senior has to make the 22 call, has to make the delivery call. And, again, 23 that has become pretty perfunctory in long 24 administered basins like the Boise River and the 25 Snake River. So I don't believe that it's the</p>	<p style="text-align: right;">Page 330</p> <p>1 remedy such an injury once you make that finding?</p> <p>2 A. Again, I'll answer it differently than 3 you asked it. But for this rule, did I think the 4 authority existed to phase-in curtailment, and 5 the answer is, no.</p> <p>6 Q. In your implementation of this rule 7 consistent with your duties to deliver water by 8 priority, did you give consideration to the 9 potential that there could be phased-in 10 curtailment along with other measures that would 11 result in the senior being fully mitigated?</p> <p>12 A. I don't know what those other measures 13 would be. You know, the Department's authority 14 extends only to the distribution of water, or 15 approval, administration, whatever you want to 16 call it, of mitigation plans that provide like 17 amounts of water in kind, in place, in time.</p> <p>18 So I don't know what other things could 19 have been done. I mean, can a senior accept 20 out-of-kind mitigation for injury? Yes. Can the 21 Department require out-of-kind mitigation for 22 injury? I don't think so. Can the Department 23 administer out-of-kind mitigation if it's 24 accepted by the senior? Yes.</p> <p>25 So back to the phased-in curtailment.</p>

1 If I believe that the person in the position that
2 I was in can only deal with water, and you are
3 phasing in mitigation, I mean, I don't know how
4 you can compensate with water for water that
5 isn't being provided.

6 Q. So other types of mitigation were not
7 contemplated by you when you applied this rule?

8 A. I didn't find any authority to require
9 other kinds of mitigation.

10 Q. With respect to the data that was
11 provided to you, and obviously, those that are
12 described in the Clear Springs order, and the
13 attachments that you attach to that order
14 regarding water flows, does that data give you
15 any indication as to whether a natural event
16 would likely occur in the future, which would
17 essentially provide a full water supply to the
18 Snake River Farms facility or the Crystal Springs
19 facility?

20 A. It doesn't give any indication that a
21 natural event will occur, nor does it give any
22 indication that a natural event wouldn't occur.
23 But it would have to be a pretty extraordinary
24 event to completely make-up the shortfall in
25 available springs discharge.

1 Q. Well, let's just use on the Snake River
2 Farms, Attachment C to your order on Exhibit 61.

3 A. (Witness complying.) All right.

4 Q. Just looking at that graph of the data
5 that you produced as a part of your order, would
6 it be fair to recognize that the 1997, '98 water
7 supply year was a fairly good year?

8 A. Sure, '97 was a pretty good year.

9 Q. And in looking at this graph, based
10 upon that water supply year 1997, which I'll
11 represent to you was a substantially
12 above-average water year.

13 A. Yes.

14 Q. Can you identify in this graph the
15 response in these spring flows to that good water
16 year?

17 A. Oh, only in a qualitative sense, I
18 suppose. But if you look at what was happening
19 up until 1997, generally the peak discharge was
20 progressively getting lower and lower for the
21 most part. And as was -- there are some
22 exceptions, for the most part. As was -- there
23 is some exceptions, but for the most part, as was
24 the low point in the spring discharge. But then
25 there is a period of time after 1997, say, from

1 '98 through 2000, where it appears that this
2 spring discharge stabilized. Before then, again,
3 in 2001, additional decline is being evident.

4 And given, you know, just as the
5 effects of ground water depletions that are
6 further removed from the spring area, just as
7 those take time to manifest themselves, so would
8 incidental recharge associated with an abundant
9 water supply take time.

10 And so I think what you are seeing -- I
11 mean, this is qualitative assessment, I think you
12 can -- one reasonable conclusion would be that
13 the stabilization you saw, 1998 through 2000, may
14 have been the result of the abundant water year
15 in 1997.

16 Q. So from a qualitative standpoint, if we
17 had in 2008 another year like 1997, what we might
18 expect would be another stabilizing event to
19 occur?

20 A. Mm-hmm.

21 Q. But it would not lead one to the
22 conclusion that the flows available for Snake
23 River Farms would meet their decreed water
24 right --

25 A. Correct.

1 Q. -- of approximately 117 cfs?

2 A. That's correct.

3 Q. So hence it would be difficult to
4 envision a water year, which would do something
5 more than simply stabilize the flows that are
6 available to them?

7 A. That's correct. That's why the order
8 for Clear Springs and Blue Lakes both was
9 structured to require essentially ongoing
10 curtailment or mitigation from here on out.

11 I mean, there was a provision that,
12 yes, hypothetically things could change. But if
13 they don't, you are looking at ongoing
14 curtailment for mitigation, period.

15 Q. And based upon the data that we just
16 looked at, it would, again, be difficult to
17 envision what the change that would occur that
18 would result in the delivery of their water but
19 for curtailment of junior?

20 A. Agreed.

21 Q. Again, referring to that exhibit, would
22 the variability of the peaks and valleys be as
23 great if there was no ground water pumping?

24 A. I think I would have to say, I don't
25 know. Because we don't -- you know, the same

1 problems that we discussed or debated during
2 questioning from Mr. Steenson, the information
3 simply doesn't exist to quantify the variability
4 prior -- at least I'm not aware that it
5 exists -- to quantify the variability prior to a
6 substantial amount of ground water being
7 developed.

8 Q. But we know that ground water pumping
9 does impact the flows available to Snake River
10 Farms, for example?

11 A. It does.

12 Q. Karl, when you first came to the
13 Department in the mid 1990s, and yesterday you
14 testified regarding your commencing a review of
15 the Conjunctive Management Rules. Did you rely
16 upon anyone within the Department to provide you
17 insight on how those rules were not implemented,
18 but drafted and adopted in the sense of what the
19 Department intended or would intend if
20 implementing those rules?

21 A. Yes, I had discussions along those
22 lines with Mr. Rassier and Norm Young at the
23 time.

24 Q. So those would have been, essentially,
25 the individuals that you would have relied upon

1 of gaining an understanding of how the rules
2 would be implemented?

3 A. No, because neither of those
4 individuals had ever been confronted with
5 actually implementing the rules.

6 Q. But they were involved in the
7 rule-making process, and the drafting of the
8 rules, and the language that was -- the language
9 that was inserted into the rules in terms of the
10 intentions regarding that wording?

11 A. Yeah, I don't know. Because when I
12 asked the question, I remember this -- asking,
13 because I asked the question to Norm Young, to
14 John Rosholt, and to Jeff Fereday. But in
15 particular Norm Young, I was interested in, you
16 know, what kind of involvement did he have and
17 others in the Department in writing the rules.
18 And what he told me is that my predecessor, Keith
19 Higginson, largely wrote the rules himself.

20 Q. Without any input from Mr. Rassier and
21 Mr. Young?

22 A. With limited input. I wasn't here, so
23 I don't know the extent of the input that was
24 provided. All I know is that from Norm's
25 description, it was limited.

1 Q. But from that standpoint, those
2 Department employees would have been the ones
3 with the most understanding or the greatest
4 understanding or experience regarding what Mr.
5 Higginson intended?

6 A. I believe so.

7 Q. Yesterday, do you recall your testimony
8 regarding the issue of reasonable diversions, and
9 that testimony regarding the investigation by the
10 Department at your direction with respect to the
11 Crystal Springs facility and the Snake River
12 Farms facility?

13 A. Yes.

14 Q. And you asked or requested that Brian
15 Patton and Cindy Yenter go out and physically
16 investigate those diversion structures and the
17 surrounding facilities associated with Crystal
18 Springs and Snake River?

19 A. Correct. And as well as to identify
20 any alternatives that they saw that could provide
21 additional water to the facility.

22 Q. And that was part of the investigation
23 the Department did, along with your investigation
24 regarding the feasibility of horizontal or
25 vertical wells in the geological structures

1 associated with the areas around those
2 facilities?

3 A. No. The consideration of what would
4 happen with horizontal wells was made, I'll say,
5 several years -- because I don't recall the exact
6 number -- but several years in advance of the
7 delivery calls being made.

8 In fact, that consideration was done
9 during the time period under which we were
10 attempting to negotiate resolution under the
11 interim stipulated agreement, that's the time
12 frame that we looked at the horizontal wells.

13 Q. In the 2001, 2003 period?

14 A. Yes.

15 Q. That investigation, that background
16 information was information you considered during
17 your drafting of these orders?

18 A. Well, I considered it to the point that
19 I didn't view it to be a viable alternative.

20 Q. But did factor into your determination
21 of whether or not the diversions were
22 reasonable --

23 A. Yes.

24 Q. -- and what actions you would or
25 wouldn't order?

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1 A. Yes.

2 Q. With respect to Snake River Farms, I

3 believe Ms. Yenter or Mr. Patton found that the

4 diversion box associated with Snake River Farms

5 facility was in some what disrepair. Do you

6 recall that finding?

7 A. I do.

8 Q. And do you also recall that Clear

9 Springs fixed that diversion box?

10 A. I do, and they fixed it rather quickly,

11 as I recall.

12 Q. To the satisfaction of the Department;

13 correct?

14 A. Correct.

15 Q. With respect to Crystal Springs, the

16 investigation by Mr. Patton and Ms. Yenter

17 identified that there was the potential for

18 Crystal Springs to extend their conveyance and

19 delivery system; is that correct?

20 A. That's correct.

21 Q. And by identifying that issue in the

22 order, did you contemplate that --

23 Well, what did you contemplate in terms

24 of their subsequent actions to that order?

25 A. Whose subsequent actions; Clear

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1 Springs?

2 Q. Clear Springs.

3 A. As I recall, I anticipated that Clear

4 Springs would perform some sort of a feasibility

5 assessment, and that they might or might not

6 share that information with the Department. But

7 presumably if it was feasible, that they would

8 implement that to gain the water that they

9 claimed they needed.

10 Q. And in that feasibility study, did you

11 contemplate that they would determine whether or

12 not they could gain access to cross private

13 property to gain access to additional flows?

14 A. As I recall, it was not private

15 property. It was property owned by the State of

16 Idaho, and that there was a statutory provision

17 for access, as I recall.

18 Q. And if that property was subject to a

19 lease to another entity, another party, would

20 that preclude access?

21 A. Not necessarily, because I don't

22 believe that the lease would be in compliance

23 with that statute if it was an exclusive.

24 Q. Generally, when someone looks at the

25 ability to access property under the condition

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1 that you provided, would trespass be a limitation

2 to accessibility to water?

3 A. Yeah, I suppose it could be. But there

4 are also other approaches under the law,

5 condemnation-type approaches that perhaps would

6 be viable to resolve the trespass issue.

7 Q. That one party would try to institute

8 an action to condemn other property owners?

9 A. For the purpose of delivering by

10 constructing water delivery facilities. I think

11 that was an option, but I don't think that was

12 contemplated or necessary in this case, because

13 of the fact that the land was owned by the State,

14 and I think, access to it was grantable, if not

15 granted, by statute.

16 Q. Would that type of action, condemning

17 another's property, be an action that you would

18 contemplate in the future use, would have

19 contemplated in future use of this provision?

20 A. Not necessarily.

21 Q. At another facility?

22 A. No, because we looked -- in identifying

23 that alternative, we looked at the case-specific

24 facts that existed, including ownership of the

25 land.

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1 Q. In your view, when does water that

2 seeps into the ground become subject to

3 appropriation?

4 A. When it's no longer in the control of

5 the right holder that appropriated the water in

6 the first place.

7 Q. When it drops below the root zone?

8 A. No, I wouldn't -- I would say, when

9 it's no longer in their control, and that may be

10 above or below the root zone.

11 Q. How does water remain in one's control

12 when it drops below the root zone?

13 A. If it drops below the root zone, and it

14 hasn't intermingled with the underlying ground

15 water, it's potentially capture-able through,

16 I'll say, a system of drains, or potentially a

17 well. It could be -- I would say, it remains

18 under their control, until it's commingled with

19 the public supply, and that applies both in a

20 ground water sense and a surface water sense, in

21 my view.

22 Q. Okay. So then what does "commingle"

23 mean?

24 A. Well, in the case of a ground water

25 situation, if the depth to ground water is 100

<p style="text-align: right;">Page 343</p> <p>1 feet, the water that's migrating towards the 2 public ground water supply, in my view, wouldn't 3 be deemed to be commingled with the public supply 4 until it reached 100 feet. 5 Q. So once it connects with or interacts 6 with the public supply? 7 A. Yes. 8 Q. Is water that is not diverted and 9 beneficially used, is it water that's wasted? 10 A. Not necessarily. 11 Q. Is there the opposite of beneficial use 12 waste in terms of a diversion? 13 A. I hadn't thought of it in those terms 14 before. Let's see. The opposite of beneficial 15 use waste? I'm going to say, not necessarily. 16 And the reason I say that is, I think you could 17 construct a situation where you could divert 18 water that would be nonuse, but it wouldn't 19 necessarily be waste. 20 Q. Operational losses -- 21 A. No. 22 Q. -- for example? 23 A. No, I'm thinking of actually -- I mean, 24 it's been -- since been resolved through 25 adjustments of law in Colorado. But the issue</p>	<p style="text-align: right;">Page 345</p> <p>1 they lose 900 cfs. I'll make it extreme. And 2 they continue to deliver the 100 cfs beyond the 3 location where the significant loss occurs. I 4 think it would be wasteful for that canal to 5 continue to operate in that setting to deliver 6 100 cfs. 7 So can canal losses be wasteful? Yes. 8 Are they necessarily wasteful? No. 9 Q. With respect to the work done on the 10 model, the re-calibration of the model, and then 11 the modeling scenarios that were run, were those 12 scenarios that were run, were they done in 13 anticipation of administration? 14 A. Prepares early on. If you'll recall 15 during that time period, and this would have been 16 prior to the delivery calls being made, there 17 were some specific scenarios that were outlined 18 in collaboration with the technical advisory 19 committee that had been formed looking at 20 curtailment scenarios back to certain priorities, 21 and what would happen, what would the response in 22 the aquifer and the river be under those various 23 scenarios. 24 And so by that point in time, we were 25 beginning to look to use the model for</p>
<p style="text-align: right;">Page 344</p> <p>1 was, could -- initially a city was diverting 2 water for non-consumptive recreational use, and 3 the diversions were occurring whether there was 4 or wasn't recreational use. 5 So there is a situation where there is 6 nonuse. Was it waste? I don't think so. It was 7 perhaps an unauthorized diversion, but it wasn't 8 waste, because the water was not consumed. It 9 was returned to the source before it affected the 10 source or any subsequent junior. So, I mean, I 11 think it comes down to a fact specific basis. 12 Now, operational losses, are those 13 wastes? If they are necessary to incur to 14 deliver the water that's beneficially used for 15 irrigation, in my view, that's not waste. 16 Q. So the water that seeps into the ground 17 as a result of the conveyance and application of 18 water to beneficial use on the lands, is that 19 waste, or is that operational losses? 20 A. It's generally not waste, but 21 hypothetical, where it could be waste. Let's say 22 that you've got a canal that has a capacity of, I 23 don't know, a thousand cfs for round numbers. 24 And it crosses a fault zone or other zone that 25 has a high permeability. And of that 1,000 cfs,</p>	<p style="text-align: right;">Page 346</p> <p>1 administration purposes. 2 Q. Right. 3 A. But consistent with what I said 4 yesterday, from the very beginning of the 5 reformulation, re-calibration, at least part of 6 my intent was to develop a tool that I could use 7 for administrative purposes, not if it became 8 necessary, but when it became necessary. 9 Q. So the curtailment scenarios, and even 10 to some respect the straw man scenario, and the 11 various scenarios that were run that associate 12 with the straw man scenario, all those scenarios 13 that were done in connection with the IWRI group 14 in the modeling committee, were done in 15 anticipation of looking at potential 16 administrative actions that might take place? 17 A. Or management actions. It was really a 18 set of scenarios that were aimed towards the 19 administration. They were a set of scenarios 20 that were aimed towards trying to identify better 21 opportunities for management. 22 Q. Management/mitigation opportunities? 23 A. Not necessarily mitigation. You know, 24 at that point in time, there was considerable 25 discussion underway with legislators and others</p>

<p style="text-align: right;">Page 347</p> <p>1 about what the state might be able to do to avert 2 the type of crisis or conflict that we currently 3 find ourselves in. 4 Q. So with respect to the A & B scenario, 5 was that an administrative scenario that was run? 6 A. No, it was not. That scenario is, I 7 guess, a little different than the administrative 8 scenario or the management scenario. You know, 9 we knew, obviously, the ground water levels below 10 A & B were followed. We knew. There is no 11 question about that. But we didn't necessarily 12 understand why. 13 We didn't know if it was the extensive 14 use of ground water by A & B itself, or if it was 15 the use of ground water in surrounding areas. 16 And so that scenario was run as an initial step 17 in beginning that investigation and that 18 consideration. 19 Q. And so is that scenario sufficient to 20 be utilized in the context towards the next steps 21 for administration? 22 A. I don't know that I'm in a position to 23 answer that. 24 MR. RASSIER: I think this is an area 25 isn't it, John, that's going beyond what Karl was</p>	<p style="text-align: right;">Page 349</p> <p>1 below A & B were a result of A & B's pumping or 2 the result of pumping by others? 3 A. Well, it wasn't just that. That 4 certainly was a central aspect. But, I mean, we 5 were trying to better understand why ground water 6 levels below A & B were declining to the extent 7 the model would help us do that. 8 Q. Karl, in your view, does this phased-in 9 curtailment progressive mitigation satisfy the 10 requirements of mitigation in time and quantity 11 and place? 12 A. Well, that's the measure as to whether 13 it's acceptable. But it is phased-in, so it does 14 not address the incremental injury that we talked 15 about earlier. And certainly, there was 16 incremental injury that is not being mitigated 17 through phased-in mitigation. 18 Q. When you use the phrase 19 "insignificant," as it relates to insignificant 20 effects on the water available discharging into 21 certain spring reach ten percent clip, for 22 example -- what criteria did you use to define 23 "insignificant"? Was that the amount of water 24 that was available to water users within that 25 particular reach?</p>
<p style="text-align: right;">Page 348</p> <p>1 noticed up for? It's certainly beyond what Randy 2 ventured into. 3 MR. SIMPSON: Well, it's a discovery 4 deposition. It's not cross-examination of what 5 Randy went into. 6 MR. RASSIER: It's in spring calls. 7 MR. SIMPSON: It's in Water District 8 130, so I think that's -- 9 MR. RASSIER: Okay. 10 THE WITNESS: I don't believe I can 11 answer that, because that was a scenario, a 12 hypothetical scenario that was constructed before 13 A & B made a delivery call. As I understand, 14 they made one. I haven't seen it, but I 15 understand that one has been made. 16 And so I don't know that I could even 17 respond whether or not that scenario is or is not 18 usable for administration purposes when it was 19 developed and run prior to the delivery call 20 being made, because it was not done with the 21 intent of addressing a delivery call. It was 22 done with the intent of better understanding of 23 what was happening. 24 Q. (BY MR. SIMPSON) To understand whether 25 or not A & B, the declining ground water levels</p>	<p style="text-align: right;">Page 350</p> <p>1 A. It was. And I can't recall. I would 2 have to look back at the scenarios. But it 3 strikes me that in some of these instances, you 4 know, the model might predict an increased reach 5 gain of one-tenth of a cfs in a spring reach 6 that's being shared by a number of very large 7 spring diversions. 8 I would question -- I mean, the 9 one-tenth of a cfs may be real, but I would 10 question whether it would be significant in that 11 setting. Now, obviously, if your water right is 12 to use .02 cfs, .1 cfs would be significant. 13 Q. If as a result of inputs into the ESPA 14 water in reaches of the Snake River below Milner 15 became available in excess of what was there at 16 the time under the appropriation, that that water 17 was not -- excuse me -- but the right wasn't 18 fulfilled, could a senior divert that water? 19 A. State it again for me, please. 20 Q. Okay. If, as a result of inputs into 21 the aquifer, that is tributary underflow precip, 22 recharge to the aquifer, natural or artificial 23 recharge, spring flows increased. And if the 24 flow is increased beyond perhaps what had been 25 there historically, would a water right holder</p>

<p style="text-align: right;">Page 351</p> <p>1 who had previously acquired a water right, have 2 the right to divert that water? 3 A. Up to the maximum amount authorized 4 under their water right, yes. 5 Q. Would they have preference by priority 6 over that water over a subsequent diverter or a 7 subsequent right? 8 A. Diverting from the same source, yes. 9 Q. How about diverting from a different 10 source, but a source that is hydraulically- 11 connected? 12 A. That gets more complex. And I would 13 have to say that, I don't know that there is a 14 plan answer. You know, in general, if additional 15 water comes available in the source, the existing 16 rights have the preference in accordance with 17 their priority to divert and apply that water to 18 beneficial use up to the limits of their water 19 right. 20 Q. So if that additional water was not 21 available because of a junior's diversion of that 22 water in the source or connected sources, that 23 junior should be administered; correct? 24 A. State that one again. 25 Q. So if that water is not available in</p>	<p style="text-align: right;">Page 353</p> <p>1 Department does not have the authority to go 2 behind a decree; is that a correct statement? 3 A. Correct. 4 Q. Okay. I believe that Rangen's Second 5 Amended Order has been marked as Exhibit No. 79. 6 And I wonder if you could access that. 7 A. (Witness complying.) Okay. 8 Q. And if you could turn to page 14 of 9 that second amended order, paragraph 62. I'll 10 indicate to you in that paragraph, as you can 11 see, that Rangen has Water Right No. 36-07694. 12 Would you agree that it was licensed on September 13 19th, 1985 with an authorized diversion rate as 14 26 cfs? 15 A. As far as I know, that's correct. 16 Q. Okay. And in this second amended 17 order, there is a reference in paragraph 63 that 18 based on available records, there was not water 19 available for the appropriation at the time or 20 subsequent to the date of the appropriation for 21 that particular water right. 22 Can you tell me what available records 23 that decision was based on? What you are 24 referring to in paragraph 63? 25 A. This would have been records in two</p>
<p style="text-align: right;">Page 352</p> <p>1 either the source or connected sources, and it 2 would otherwise be available to that senior, 3 should the juniors be administered? 4 A. If the senior is in the position of 5 needing the water and needing to apply it to 6 beneficial use, generally, the answer to that 7 would be, yes. 8 MR. SIMPSON: That's all the questions 9 I have. Thank you, Karl. 10 MR. MAY: Could we take a break for 11 just a moment? Would that be all right? 12 THE WITNESS: Sure. 13 (A recess was had.) 14 MR. MAY: If we could go on the record, 15 please. 16 EXAMINATION 17 QUESTIONS BY MR. MAY: 18 Q. Mr. Dreher, my name is J. Dee May for 19 the record. And I represent Rangen, Inc. We 20 have been allowed to intervene in this particular 21 action. I have just a few questions, if I might 22 ask. 23 A. Okay. 24 Q. I believe in answer to a question from 25 Mr. Budge yesterday, you had indicated that the</p>	<p style="text-align: right;">Page 354</p> <p>1 sources. The earliest records would have been in 2 the water rights file. And, again, I don't have 3 that, so I can't show you exactly what's there. 4 But that file is available, and it does have what 5 records are available from the early time 6 periods. 7 And then the second set of records is 8 similar to what we've been looking at for Blue 9 Lakes and Clear Springs, you know, that beginning 10 in 1995, I believe Rangen, along with the other 11 spring users began reporting regularly their 12 diversions of water to the Department. 13 And so I couldn't find any record from 14 any time period that there ever was that quantity 15 of water available for diversion. And, in fact, 16 did find -- 17 Q. Did you find any records that it was 18 not available? 19 A. Yes. 20 Q. And what were those? 21 A. Well, it was the estimate of the 22 watermaster. That the water was -- I don't 23 recall exactly what was on his notes. I don't 24 recall exactly. But on the notes that are in the 25 water right file, there is some cryptic notation</p>

<p style="text-align: right;">Page 355</p> <p>1 that the watermaster put in there.</p> <p>2 Q. And that's it? That's the only -- that</p> <p>3 one time, that one note from Mr. Lemmon?</p> <p>4 A. No, that note is what the license is</p> <p>5 based on. It's based upon predicted spring</p> <p>6 discharges that were predicted five years in</p> <p>7 advance before the permit was applied for.</p> <p>8 Q. Was that licensed water right later</p> <p>9 decreed in the SRBA?</p> <p>10 A. Yes, it was.</p> <p>11 Q. If you would look, again, at paragraph</p> <p>12 63, there is a sentence that indicates,</p> <p>13 "Nonetheless, since the SRBA District Court</p> <p>14 decreed the water right, Rangen may be entitled</p> <p>15 to divert water under this water right when such</p> <p>16 water is physically available. However, because</p> <p>17 the water is not available to appropriate on the</p> <p>18 date of the appropriation, Rangen may not be</p> <p>19 entitled to have a delivery call."</p> <p>20 Can you tell me why that was even</p> <p>21 important if, in fact, the Department does not</p> <p>22 have the authority to go behind the decree?</p> <p>23 A. It probably wasn't that important in</p> <p>24 terms of this particular order, but it was</p> <p>25 included to identify a potential legal issue, not</p>	<p style="text-align: right;">Page 357</p> <p>1 or was it strictly your decision alone?</p> <p>2 A. You know, I certainly sought, I'll say,</p> <p>3 reaction to that proposed determination. But the</p> <p>4 determination was mine. It was mine alone.</p> <p>5 Q. Can you explain, reaction from whom;</p> <p>6 anybody?</p> <p>7 A. Well, I mean, I consulted with Phil.</p> <p>8 And I was trying to think who -- I think Norm had</p> <p>9 retired by then. He must have. Because I</p> <p>10 questioned him later about why -- he signed the</p> <p>11 license, Norm Young did. And I questioned him,</p> <p>12 why did you sign the license? Again, from my</p> <p>13 perspective, I understand your client doesn't</p> <p>14 share that perspective. I didn't -- it wasn't</p> <p>15 clear to me why he would sign a license based on</p> <p>16 a predicted quantity of water that wasn't</p> <p>17 actually measured as being available, diverted,</p> <p>18 and applied to beneficial use.</p> <p>19 Q. What did he say?</p> <p>20 A. He had no answer. He said, I can't</p> <p>21 explain.</p> <p>22 Q. Was Rangen's Second Amended Order one</p> <p>23 of the emergency orders that we've been talking</p> <p>24 about here? Was it done on an emergency basis</p> <p>25 like Blue Lakes and Clear Springs?</p>
<p style="text-align: right;">Page 356</p> <p>1 so much identify for the benefit of the</p> <p>2 Department, but for the benefit of Rangen, and</p> <p>3 the ground water users that may have to resolve</p> <p>4 this someday.</p> <p>5 And that's why it's all qualified.</p> <p>6 This says, you know, Rangen may be entitled to</p> <p>7 divert water under this right. I think as long</p> <p>8 as the decree is in place, you do have the right</p> <p>9 to divert water under the right.</p> <p>10 I mean, this is very unusual how this</p> <p>11 all happened. And given the way it happened, I</p> <p>12 think the Department -- and I may be wrong, which</p> <p>13 is fine. I've been wrong before -- but my view</p> <p>14 is that the Department had some discretion in how</p> <p>15 to administer that right, or administer rights</p> <p>16 that were junior in priority to that decree.</p> <p>17 Q. Now, I know that you signed the order,</p> <p>18 Rangen's Second Amended Order that we're</p> <p>19 referring to. And in that order, the</p> <p>20 determination was that Rangen's call was futile?</p> <p>21 A. Correct.</p> <p>22 Q. Was that determination yours?</p> <p>23 A. Yes, it was.</p> <p>24 Q. Was it based on reliance, other than on</p> <p>25 the records, on anybody else's suggestion to you,</p>	<p style="text-align: right;">Page 358</p> <p>1 A. It was not. And the reason it wasn't</p> <p>2 is because there was no action -- I mean, it</p> <p>3 didn't contemplate any action that would benefit</p> <p>4 Rangen, or perhaps be detrimental to the holders</p> <p>5 of junior rights. So I didn't see the need for</p> <p>6 the emergency basis.</p> <p>7 Q. If I could just talk about the modeling</p> <p>8 for just a moment. If I understood correctly,</p> <p>9 your testimony was that there was some speed</p> <p>10 involved in getting the modeling put together for</p> <p>11 use with these orders; is that true?</p> <p>12 A. Well, we'd been at the model</p> <p>13 development for, gosh, I don't remember.</p> <p>14 Certainly, two years. And probably more like</p> <p>15 three years by this point in time. And I could</p> <p>16 see this all coming. I could see it was headed</p> <p>17 right at me. So, yeah, I was very interested in</p> <p>18 bringing the model development to a reasonable</p> <p>19 conclusion. But, you know, having said that,</p> <p>20 you've got to be right. I mean, the model had to</p> <p>21 be as right as we could make it.</p> <p>22 Q. If you had more time, would it have</p> <p>23 been more accurate?</p> <p>24 A. Oh, I don't know that. How do you</p> <p>25 improve model accuracy? Well, you can improve</p>

<p style="text-align: right;">Page 359</p> <p>1 assumptions. You can increase the amount of data 2 you've got to calibrate to. You can maybe get 3 data that represent different conditions that you 4 can calibrate to. So, I mean, you can always 5 improve a model with more information. And more 6 information usually requires more time. 7 But, I mean, having said that, this is 8 one of the best ground water models -- probably, 9 the best ground water model I've been exposed to. 10 Q. Did anybody on the committee or on your 11 staff indicate, we need to slow down? We need to 12 slow this down, so that we can make this more 13 accurate? 14 A. No. In fact, the contrary, there were 15 people on the committee that said, we've been at 16 this long enough, it's time that we begin to do 17 something about the problem. 18 Q. So it was you that tried to slow it 19 down then, or -- 20 A. No, I wouldn't say I tried to slow it 21 down. I mean, I was interested in bringing it to 22 completion. But I did not exert any, you know, 23 top down pressure to get it done. You know, I 24 continued to participate. I continued to 25 encourage progress. But I didn't say, look,</p>	<p style="text-align: right;">Page 361</p> <p>1 to be all that significant. But there is room 2 for disagreement. 3 MR. MAY: I don't have any other 4 questions. Thank you. 5 MS. McHUGH: Can we go off the record? 6 (Discussion held off the record.) 7 EXAMINATION 8 QUESTIONS BY MS. McHUGH: 9 Q. I just had a couple of follow-up 10 questions. 11 A. Okay. 12 Q. Do you know of any changes in the North 13 Side Canal Company that may have affected seepage 14 from the canal as it relates to maybe spring 15 users? 16 A. Yes and no. I don't recall what order 17 it's in. But, you know, I did talk with Ted 18 Diehl off and on over the years about what North 19 Side was doing in terms of canal repairs and 20 reducing leakage. And there was a period of time 21 that they were particularly more aggressive in 22 terms of trying to repair problem areas in the 23 canal to reduce the amount of loss. 24 And I mean to the point to where at one 25 juncture, I don't remember what the time period</p>
<p style="text-align: right;">Page 360</p> <p>1 you've got until this date, and then we're going 2 to go with it. We never did that. 3 Q. The conclusion being in this order that 4 if all the wells were shut down, that the 5 Thousand Springs to Malad Gorge Reach would only 6 get a five cfs increase? 7 A. Yes. 8 Q. Was there ever any investigation done 9 or research done to see how that five cfs would 10 have impacted Rangen's facility and their ability 11 to operate at a profit? 12 A. I don't remember what other diversions 13 are in that reach. I don't recall that 14 Rangen -- I mean, my recollection is that Rangen 15 was not the only diversion. So unless Rangen 16 made some agreement with other people not to 17 divert the increased water supply available, 18 Rangen would have gotten a very small portion of 19 that. 20 And, you know, we wouldn't -- that 21 doesn't -- we normally would not look at the 22 financial aspects of whether that would really 23 make a difference. We stick to the water issues. 24 And that five cfs spread among the reach and the 25 various diverters there just really did not seem</p>	<p style="text-align: right;">Page 362</p> <p>1 was. But essentially, Ted Diehl expressed the 2 belief that the actions in repairing the North 3 Side Canal reduced the water that was available 4 to Munser and resulted in the Munser call. You 5 know, I wasn't here then. I have no way of 6 knowing whether that's an accurate representation 7 or not. But it is a representation that he made 8 at one point. 9 In one of these orders, I made an 10 attempt to see if there was any correlation 11 between the specific dates, at least in terms of 12 years, that Ted Diehl identified as making 13 significant repairs, and whether that correlated 14 with any reduction in spring discharge. And, you 15 know, I don't recall if there was any -- I don't 16 think there was any strong correlation, but there 17 was -- possibly is correlation. But that's as 18 much as I recall about that. 19 Q. And do you recall that it's in the 20 orders, or it was just done as part of the 21 analysis leading up to the orders? 22 A. No, I -- maybe my recollection is 23 flawed. It could be. But I thought I put it in 24 there, because I just almost can picture the 25 finding in my mind that set forth the dates</p>

1 and -- but I don't remember anything more than
2 that.

3 Q. In your order, is there any expectation
4 of when the water curtailed will appear in any
5 specific reach?

6 A. Yes. In these orders dealing with the
7 delivery calls from the spring users, we don't
8 talk about the transient conditions directly.
9 But certainly the model simulations that were
10 used to simulate curtailment, some of them at
11 least would have involved transient results that
12 would indicate how much water would accrue each
13 year during the curtailment up to steady
14 conditions.

15 However, and I know it's not the
16 subject of this current effort, but I believe
17 that in the Surface Water Coalition order, there
18 is more of a description about the transient
19 benefits that would occur.

20 Q. Do you know, generally, what the
21 priority dates are of the wells that are closest
22 to the springs?

23 A. I did at one time. I don't recall what
24 those are. But at one time, I asked that
25 specific question and had a -- I don't remember

1 if it was a memorandum. It probably wasn't a
2 memorandum. I got some documentation that
3 identified the band, the priority band of the
4 most significant numbers of wells above the
5 springs. And I just don't recall what that is.

6 Q. And you don't recall if they were
7 generally junior or generally senior?

8 A. I don't. I can't --

9 Q. And do you remember the person --

10 A. Senior to what; to the users?

11 Q. To the springs making the call.

12 A. I don't recall.

13 Q. Do you remember the person that you
14 asked to provide that documentation?

15 A. It may have been Jeff Peppersack. And
16 if not him, his predecessor, who I don't remember
17 his name.

18 Q. You would believe it still exists
19 somewhere potentially, even though it was
20 just --

21 A. Potentially, but I don't know, because
22 it was never -- I don't think it was ever
23 formalized into a memorandum that would have been
24 put into our system. It was just an inquiry. It
25 was out of curiosity more than anything, as I

1 recall.

2 Q. I think you testified earlier today
3 that a 90-percent conveyance loss would be
4 considered wasteful, or you would consider it
5 wasteful. Am I characterizing that correctly?

6 A. Well, I used it in the context that I
7 just made that. And I constructed a hypothetical
8 into which canal diverted a thousand cfs, and
9 lost 90 percent of it at one location. 90
10 percent loss sounds wasteful, regardless of where
11 it's occurring.

12 But, again, usually you have to make
13 those determinations on a case-by-case basis. So
14 I would be uncomfortable saying that, you know,
15 30 percent is wasteful, but 29 percent isn't. I
16 mean, it just depends on the facts that follow.

17 Q. Okay. Is a water user entitled to
18 approve their efficiency?

19 A. Yes.

20 Q. And if a junior user relied upon the
21 runoff prior to the improved deficiency, could
22 they call for its continuation?

23 A. If what?

24 Q. If a junior relied on the runoff that
25 resulted prior to the improved deficiency, could

1 the junior call for the continuation of the less
2 efficient method?

3 A. Okay. What's confusing me there is the
4 term "runoff." Normally I think of runoff as
5 being snow melt.

6 Q. Return flow.

7 A. Return flow. Okay. Now, restate the
8 question using "return flow."

9 Q. Okay. If a junior relied upon the
10 return flow that occurred prior to the improved
11 deficiency, could they call for the less
12 efficient method to continue?

13 A. No.

14 Q. Is there a parameter when looking at
15 futile call, for example, where you would
16 determine that the resources are being wasted if
17 the delivery call was enforced?

18 It's not the best question, but I think
19 you get my meaning.

20 A. Well, I'll go back to the example I
21 used in somewhat hypothetical in a real setting.
22 The Big Lost example where the juniors upstream
23 could divert 100 cfs. And if they were curtailed
24 10 cfs, may or may not make it down to the
25 seniors. I think some, and probably I would be

1 included, would tend to view enforcing that
2 delivery call a waste of the resource given that
3 90 percent of the water available -- and, again,
4 these are not hard numbers, they are fact
5 specific -- but 90 percent of the water that was
6 available wasn't used, and it was lost to the
7 underlying aquifer system, and not re-diverted to
8 wells or anything else for beneficial use.

9 So, you know, that wouldn't -- does it
10 rise to the level of waste? Maybe not. But it
11 certainly would not be an optimal use of the
12 resource, which is one of the principles in the
13 prior appropriation system that we had.

14 Q. And is optimal use also a consideration
15 in the conjunctive administration between the
16 surface water and ground water users?

17 A. Yes, it is.

18 MS. McHUGH: Nothing further. Thank
19 you.

20 MR. RASSIER: I have just one question.

21 EXAMINATION

22 QUESTIONS BY MR. RASSIER:

23 Q. Karl, you've been asked a lot of
24 questions over the last two days and given a lot
25 of responses. Are there any of your responses

1 released past Milner would be added to the Swan
2 Falls minimum.

3 And the reason for that, is the
4 provision in the Swan Falls Agreement that
5 specifically identifies that any actions that
6 Idaho Power undertakes to improve flows, are not
7 to be counted towards meeting the minimum flows.

8 And initially, when we started this,
9 when we had to make the determination of whether
10 the flow augmentation releases made by the Bureau
11 were in addition to the Swan Falls minimum, or
12 whether they could be accounted for as meeting
13 the Swan Falls minimum. There was an agreement
14 between the Bureau and Idaho Power for power
15 generation and shaping of Hells Canyon.

16 So we made that determination based on
17 that agreement. I don't know if any such
18 agreement exists today. And if those flow
19 augmentation releases continue to be -- whether
20 or not they are deemed to be actions of Idaho
21 Power that will be in addition to the Swan Falls
22 minimum. I just don't know.

23 But that's one area where things could
24 have changed. And what the Department is doing
25 in terms of accounting for those flows, and

1 that you would like to clarify or change that you
2 thought about?

3 A. Well, I guess you always think further
4 about these things. But, of course, I've thought
5 quite long and hard for many years leading up to
6 all this.

7 But, you know, since -- even though
8 I've only been gone just slightly less than a
9 year, you know, things change. And, you know, I
10 have not been involved, at least to date, in any
11 of the current deliberations regarding the Swan
12 Falls Agreement in light of Idaho Power's action
13 filing.

14 And, you know, perhaps I should clarify
15 the responses that I gave on some aspects of the
16 Swan Falls Agreement, as being what the situation
17 was then, and maybe not what's the situation now.
18 And, you know, for example, there was some
19 discussion with John, and he's not here now, but
20 there was some discussion back and forth with
21 John about what flows are or are not included in
22 terms of trying to meet the Swan Falls minimum.

23 And I made the comment that
24 flows -- storage water leased by the Bureau of
25 Reclamation for salmon purposes, and then

1 whether they do or don't contribute to meeting
2 the Swan Falls minimum, that's one area that
3 possibly has changed.

4 Q. Are there any other areas?

5 A. You know, I guess if everybody started
6 over and asked their questions, I may answer them
7 differently, but I would hope they wouldn't be
8 too different. So I can't think of anything.

9 MR. RASSIER: Thank you.

10 MR. STEENSON: Well, given that, I
11 think I'll start over.

12 FURTHER EXAMINATION

13 QUESTIONS BY MR. STEENSON:

14 Q. Karl, I just want to say for the
15 record, I appreciate your patience. And I know
16 it's a difficult issue. And I appreciate your
17 coming and answering my sometimes difficult
18 questions, and giving your best answers. I do
19 have a few more for you.

20 With regard to mitigation, as you've
21 discussed over the past couple of days, and your
22 belief that ground water users could be required
23 to pay for actions that the spring user might
24 need to take to improve their supply.

25 Does that view relate to the case

<p style="text-align: right;">Page 371</p> <p>1 Parker versus Valentine? Are you familiar with 2 that case?</p> <p>3 A. Yes, I'm familiar with that. And in 4 part, it relates to that. But it's not -- in my 5 view, that's not something that the Department 6 has the authority to require. All we can do is 7 administer the water the best -- I mean, it's 8 hard enough to do a good job at that for heaven's 9 sake.</p> <p>10 But to the extent that parties reach 11 agreement that certain actions will be taken as 12 mitigation, and that certain other parties will 13 pay for those actions, I think the Department can 14 administer those agreements. And, in fact, is in 15 a position of requiring curtailment in the event 16 that those actions are not followed through on.</p> <p>17 Q. And could you turn to Exhibit No. 50.</p> <p>18 A. (Witness complying.)</p> <p>19 Q. Are you familiar with that document?</p> <p>20 A. I must be. I signed it. But I'm 21 having to read through it quickly to catch the 22 context. (Witness reading.)</p> <p>23 Okay. I'm generally remembering this 24 now.</p> <p>25 Q. Okay. Do you recall if you prepared</p>	<p style="text-align: right;">Page 373</p> <p>1 and asked for them to concur or not.</p> <p>2 You know, in these kinds of positions, 3 you just don't put the Governor in a situation 4 where he could be wrong. So likely, you know, on 5 something like this, I would have put it out 6 there as my position as the director of the 7 Department. And then if there was criticism of 8 it, the criticism would fall where it should, on 9 me.</p> <p>10 Q. As in this case, as a spokesman for the 11 Department of Water Resources? You are not 12 expressing your personal view on this matter?</p> <p>13 A. No, it's not necessarily my personal 14 view. It was my view as Director of Water 15 Resources.</p> <p>16 Q. And do you recall how this issue of the 17 Swan Falls Agreement was considered by the 18 interim legislative committee that summer, the 19 same summer when this letter was written?</p> <p>20 A. You know, what I remember from that 21 summer was, I remember the interim committee 22 taking it up, and I remember them convening a 23 panel of -- what was it -- Bob Bruce, and Jim 24 Jones, and someone else -- I don't recall the 25 name offhand -- that had been involved in the</p>
<p style="text-align: right;">Page 372</p> <p>1 this by yourself, or whether you had assistance?</p> <p>2 A. I would have had some legal help on 3 this.</p> <p>4 Q. Do you recall from whom?</p> <p>5 A. Well, certainly, would have input and 6 assistance from Phil. And I don't recall 7 specifically, but undoubtedly, this sort of thing 8 would have at least been reviewed by Clive 9 Strong.</p> <p>10 Q. And do you recall that you prepared 11 this, at least in part, in response to Deposition 12 Exhibit No. 51?</p> <p>13 A. Yes.</p> <p>14 Q. Okay. And the analysis and the 15 opinions expressed in the letter, would you say 16 that they represent your individual view, or the 17 Department of Water Resources' views, or the 18 views of the State of Idaho, with the executive 19 branch?</p> <p>20 A. I would say that they represent my 21 views at the time as the director of the 22 Department of Water Resources, and certainly, 23 reflect that aspect of the executive branch. 24 But, you know, this is not something that I 25 necessarily went to the Governor's office with</p>	<p style="text-align: right;">Page 374</p> <p>1 Swan Falls Agreement.</p> <p>2 Q. Do you recall Tom Nelson's 3 presentation --</p> <p>4 A. Yes, Tom Nelson.</p> <p>5 Q. -- to the committee?</p> <p>6 A. I vaguely do, but maybe more of it will 7 come back.</p> <p>8 Q. And do you recall that after Tom 9 Nelson's presentation to the committee, the 10 committee didn't take up this question of the 11 impact of Swan Falls on Conjunctive 12 Management Rules?</p> <p>13 A. That's my recollection.</p> <p>14 Q. On page 2 of this letter, in the last 15 paragraph. In the mix of it are the following 16 words, "Given the specificity with which the 17 agreement was drafted, it is logical to conclude 18 that the parties would have expressly included a 19 provision stating that other surface water rights 20 from the spring sources were also being 21 subordinated by the agreement. And had that been 22 the intent of the parties to the agreement, this 23 would seem to be particularly true given the 24 valuable property rights that would have been 25 affected by such an interpretation."</p>

<p style="text-align: right;">Page 375</p> <p>1 Do you recall that aspect of this 2 letter?</p> <p>3 A. Well, I'm reading it again now, and I 4 vaguely recall it, yes.</p> <p>5 Q. In other words, the conclusion there is 6 that the Swan Falls Agreement of subordination 7 affects -- only applied to those who were party 8 to the agreement?</p> <p>9 A. I want to read the context of the 10 paragraph. (Witness reading.)</p> <p>11 Okay. Now, could you restate what you 12 asked me?</p> <p>13 Q. Yes. Is the basic opinion being 14 expressed here, that Swan Falls agreements 15 subordination could not affect a nonparty to the 16 agreement?</p> <p>17 A. I don't know that it goes that broad. 18 You know, the State has some ability, it seems to 19 me, to condition or affect certain aspects of the 20 rights of entities that were not party to the 21 agreement.</p> <p>22 Now, having said that, that, you 23 know -- that may cause issues, such as along the 24 lines of regulatory takings to arise. Now, I'm 25 not saying this goes that far. But just to say</p>	<p style="text-align: right;">Page 377</p> <p>1 from Spronk Engineers, representing the ground 2 water interests.</p> <p>3 And from the very beginning, he always 4 wanted me to write a document defining how the 5 model would be used. And I never would do that. 6 My response was always: I want the flexibility 7 to be able to use the model in any manner, and 8 for any purpose for which it's deemed to be 9 appropriate.</p> <p>10 The reason I did that is, because had I 11 identified a particular set of purposes -- and 12 let's say had I identified specifically 13 administration of junior rights as being the 14 primary purpose of the model, I think that 15 committee would still be meeting today trying to 16 formulate the model.</p> <p>17 Because in my view, the ground water 18 folks would have done everything they could have 19 to have delayed -- you know, and I don't mean 20 this critically. I mean, in their own interests, 21 they would have, I think, sought the completion 22 of the model such that there wouldn't be a basis 23 for administration.</p> <p>24 And, you know, I know that some -- I've 25 read the arguments to some extent, that some</p>
<p style="text-align: right;">Page 376</p> <p>1 that it has no effect on parties, on entities 2 that were not part of the agreement, I think 3 that's probably too far the other way.</p> <p>4 Q. In any case, you have no reason to 5 modify the analysis concluded in this letter that 6 you --</p> <p>7 A. Well, that was my -- I have not done 8 any further analysis since that time. I mean, I 9 have no reason -- I don't know anything different 10 today that would cause me to modify that.</p> <p>11 Q. Okay.</p> <p>12 A. It doesn't mean that others might not 13 seek to modify it or render it moot.</p> <p>14 Q. Okay. And with respect to the model 15 that you mentioned, people on the committee of 16 the model. The model was being developed, was it 17 not, with the understanding that it would be used 18 as a management tool; is it not?</p> <p>19 A. No.</p> <p>20 Q. What was the purpose that the people on 21 the committee understood or agreed for purpose or 22 purposes of a model?</p> <p>23 A. Well, the person that was most 24 insistent about trying to force me to identify a 25 limited defined set of uses was Greg Sullivan</p>	<p style="text-align: right;">Page 378</p> <p>1 would say that the model isn't good enough 2 to -- for administration; therefore, you have the 3 decrees that say the sources are 4 hydraulically-connected. That's sufficient. You 5 know the priority dates. You administer all the 6 rights as if they are from the same source.</p> <p>7 I think equally -- maybe not equally, 8 but another likely or potential outcome of such a 9 scenario, where you didn't have a model to use, 10 would be a court determination that the 11 Department does not have a sufficient basis to 12 determine that curtailing somebody's real 13 property rights will, in fact, be a benefit to 14 those other real property rights that are more 15 senior.</p> <p>16 So I maintained the most flexible 17 approach that I could, in saying that the model 18 could be used for anything for which it was 19 deemed to be appropriate. And we are where we 20 are.</p> <p>21 Q. There had nonetheless, been 22 representations to the SRBA Court along the way, 23 by yourself, and then by Counsel for the State, 24 and the Department -- State, I should say, that 25 the State was in the process of developing a</p>

<p style="text-align: right;">Page 379</p> <p>1 model, so that it would have the ability to 2 evaluate impacts for purposes of administration; 3 isn't that right? 4 A. That's correct. That is correct. 5 Q. And the purpose of the connected 6 sources general provisions was to establish the 7 hydraulic connection between the aquifer and the 8 springs. So that legal determination, that 9 determination having coming come out of the SRBA 10 would provide a basis for administration by the 11 Department; is that correct? 12 A. In part. You said to "define the 13 hydraulic connection." I wouldn't say it that 14 way. I would say, the purpose was to identify 15 that there was a connection. And I believe that 16 from my view, the SRBA Court left the 17 determination of the extent of the connection, 18 and the character of the connection, I believe 19 they left that to the discretion of the director 20 of the Department. 21 Q. Sure. And I don't have this as an 22 exhibit. But since we're on this topic, I'm 23 going to show you an August 15th, 2000 document 24 called Director's Response to Opening the base 25 submitted in Basin 5 case.</p>	<p style="text-align: right;">Page 381</p> <p>1 written. 2 And essentially, what I did by issuing 3 the orders in response to the delivery calls, is 4 I essentially said, in this instance, the State 5 has the burden to make the initial determination 6 of injury, not the senior. The seniors shouldn't 7 have to make it. He's got the senior right. And 8 the junior maybe shouldn't have to prove the 9 negative to start with. You know, I mean, the 10 State has the responsibility of protecting the 11 senior rights when calls for water distributions 12 are made. And the State's also the entity that 13 authorizes the junior-priority appropriations. 14 So, you know, my view now, and at the 15 time that I wrote the orders is, that the State 16 ought to take the initial burden. And then if 17 either or both sides disagree with the 18 determinations that are made, then either or both 19 sides have the burden to rebut what was done. 20 I think that's what we're -- where 21 we're at today. Which is a little different than 22 the process I had in mind at the time I did this. 23 You are right, I mean, at the time that I did 24 this, I was thinking of kind of a different 25 approach having to use rebuttable, presumptive</p>
<p style="text-align: right;">Page 380</p> <p>1 A. Okay. 2 Q. And as you recall at that time, there 3 was an effort to develop more comprehensive water 4 management rules, and that effort was not 5 ultimately seen to a conclusion. So in this 6 document where you describe using response zones 7 to create or establish presumptive depletions in 8 the rules would not apply, of course, without 9 anything happening; right? 10 A. Yes. 11 Q. If I ask you to look at this discussion 12 under "Injury," on pages 10 to 14. And tell me 13 if it doesn't basically describe the approach 14 that you've taken in the administration of the 15 call that was made. 16 A. (Witness reading.) How far did you 17 want me to read? 18 Q. Just that section. 19 A. Just down to "Conclusion"? 20 Q. Yes. 21 A. Okay. You know, certain aspects of 22 this discussion in this document, in general are 23 along the lines that we employ, but not all 24 aspects. For example, my thinking regarding 25 burden of proof has evolved since this was</p>	<p style="text-align: right;">Page 382</p> <p>1 depletions. Nobody liked that. I -- you know, 2 the ground water folks certainly didn't like it, 3 and I don't think the surface water 4 folks -- apparently, must have not thought it 5 went far enough. 6 And the whole issue of trying to 7 negotiate comprehensive management rules is, you 8 know -- and again, this is not criticism, but 9 there was positioning and advocating going on 10 from the get go. And it seemed like the more we 11 attempted to come together, the farther apart we 12 got. And it just didn't appear that there was a 13 broad enough will to work together to come up 14 with a set of rules that everybody would accept. 15 It's almost like entities didn't want 16 to give up a position, until they knew whether 17 they had to give it up or not. And so it just in 18 that climate, it was not possible to have 19 achieved it. We turned our attention to other 20 aspects of preparing to deal with the problem: 21 Focusing on the reformulated re-calibrated ground 22 water model; getting about the business of 23 creating water districts; making sure that the 24 adjudication was moving forward towards 25 completion.</p>

1 So I don't know -- I mean, in general,
2 maybe parts of this are certainly consistent with
3 what we've done. But I don't know that that
4 outlines the approach that I took. You know,
5 Doug Grants' article is cited in here, and I
6 certainly read that. I thought he did a good
7 job -- from my perspective, he did a good job of
8 identifying the areas that we were headed into.

9 Q. And so those rules weren't written to
10 themselves, establish a rebuttable presumptions
11 that you did as you advised the court and parties
12 in Basin No. 5 to proceed to use the model to
13 make determinations about, as you described here,
14 the extent of the connection?

15 A. I did.

16 Q. Okay. And Doug Grants, as summarized
17 by you here, that if there were no clear
18 hydraulic connection, then the burden would be on
19 the senior to establish the existing. But in the
20 adjudication, that hydraulic connection would be
21 established by the connected sources general
22 provision?

23 A. But not the extent of it.

24 Q. And not the extent. So that was as
25 Judge Burdick -- then Judge Burdick wrote in his

1 Basin Wide 5 -- and that would be attached in the
2 Department, the abilities to do the technical
3 work to establish the extent of the connection;
4 correct?

5 A. I think that's correct, yes.

6 Q. Okay. Now, with respect to the model,
7 some have expressed the view that it can't be
8 used for purposes of administration, unless it
9 can with a high degree of accuracy or certainty
10 to predict the quantity and timing of water that
11 might be delivered to a specific spring, as a
12 result of curtailment of a particular well.

13 What's your feeling about that?

14 A. I obviously disagree with it, because I
15 used it, in spite of not being able to look at
16 the effect of an individual well and an
17 individual spring.

18 Q. This gets at the issue of resolution in
19 the model; does it not?

20 A. Not just resolution, but the underlying
21 sums that you can adequately represent a
22 nonhomogeneous fractured material with an
23 equivalent homogenous, at least on a cell
24 by -- within a particular cell, on an equivalent
25 homogenous force material, if you will.

1 Q. And there has come to be over the years
2 now, as it has been explained to the House and
3 Senate committees and probably an expectation
4 within the state government, that the model would
5 be used for administration; is that fair?

6 A. I think that's fair. You know,
7 I -- it's not in response to a question that you
8 asked. But I would offer that, you know, I can't
9 recall the specific cite. There is a recent
10 court case out of Colorado, where the court
11 determined that the state engineer was correct in
12 relying on a ground water model to make a
13 determination in the validity of the model, the
14 adequacy of the calibration were all issues in
15 that litigation.

16 And the court, as I recall, found that
17 the state engineer was within his discretion to
18 use the model. And, in fact, it was not only the
19 best information available, but the only
20 information available that the state engineer had
21 to use.

22 And in looking at that decision in the
23 exhibits that were -- the evidence that was
24 presented regarding the calibration, it wasn't
25 nearly as well calibrated as what we're using

1 here.

2 Q. And certainly models that are complex
3 and require a number of assumptions or inputs of
4 information, have been used in the water quality
5 context for many years to manage water quality in
6 the State of Idaho. And as you mentioned, the
7 use of this type of model for management of water
8 resources is not a new occurrence?

9 A. It is not.

10 MR. BROMLEY: Karl, if I could ask a
11 clarification?

12 THE WITNESS: Sure.

13 MR. BROMLEY: Was that the Water
14 District 3 out of San Luis Valley that you were
15 talking about?

16 THE WITNESS: It may have been. It was
17 having to do with developers that wanted to
18 appropriate water, as I recall, where the state
19 engineers had -- based upon the model results,
20 there was no unappropriated water available,
21 something along those lines.

22 But it didn't deal with the transfer.
23 It dealt with new appropriations. Is that the
24 Arkansas or the --

25 MR. BROMLEY: That would have been the

<p style="text-align: right;">Page 387</p> <p>1 Rio Grande at Alamosa; is what the court says? 2 THE WITNESS: Well, it's a decision 3 that has come out in the past year. It's fairly 4 recent. 5 MR. BROMLEY: Colorado Supreme Court? 6 THE WITNESS: No, district court. 7 Q. (BY MR. STEENSON) Now, the model is 8 not required for us to know that the Eastern 9 Snake Plain Aquifer is hydraulically-connected to 10 the Thousand Springs, including the springs at 11 Blue Lakes Farms and leased water right? 12 A. Well -- 13 Q. I mean, just as a matter of fact, not 14 as to the extent of the connection. Just the 15 extent there is a connection. 16 A. Well, the court has -- I mean, the 17 decrees have this provision that says there is. 18 So as a matter of law, there is a hydraulic 19 connection. 20 Q. But even without the decrees, we can 21 ascertain as a hydrologic fact, that the ESPA is 22 connected to the springs without needing to 23 employ the model? 24 A. Well, I wouldn't say, as a hydrologic 25 fact. But as a fact, it's connected. But that</p>	<p style="text-align: right;">Page 389</p> <p>1 Q. Okay. 2 A. And, again, that begins to show how 3 complex this becomes. It just isn't simple that 4 ground water levels go down, and spring discharge 5 go down. I mean, it looks like it ought to be, 6 but it isn't. Ground water levels could stay up 7 generally. 8 And if you increase the gradient so 9 that there is less remaining elevation head at 10 the springs, that's going to reduce spring 11 discharge, even though the overall ground water 12 levels may not have declined. 13 Q. Okay. With respect to your order page 14 2 -- 15 A. I don't remember what exhibit that was. 16 Q. It's Exhibit No. 11. 17 A. (Witness complying.) 18 Q. I'll read you the statement, and tell 19 me if you continue to agree with it. "With 20 parallel appropriations of ground water which 21 dramatically increased beginning in about 1950, 22 ground water levels across the ESPA have 23 responded by declining in most locations that 24 were level at preexisting conditions, exacerbated 25 by the worst consecutive period of drought years</p>
<p style="text-align: right;">Page 388</p> <p>1 doesn't replace the need to determine the extent. 2 Because I'll continue to assert, based upon the 3 results from the model, that not all ground water 4 diversions affect spring discharge. 5 Q. Sure. My next step -- or my next 6 question was going to be a little different than 7 what you anticipated. But the next matter of 8 that doesn't necessarily require employing a 9 model, is the understanding that activities that 10 cause a water table to decline, will also cause 11 connected springs to decline as a general matter? 12 A. I'm not sure I would say that that's 13 necessarily true. It depends on what you mean by 14 "decline." 15 Q. Let me ask the question this way, 16 because I'm short of time. Activities that 17 affect aquifer levels affect connected springs? 18 A. Well, but it's not just -- what I'm 19 trying to get at, it's not just the levels. It's 20 the grading. There is a fairly -- well, there is 21 a gradient in the ground water levels right above 22 the springs. I mean, it's caused by the spring 23 discharge, and in part, themselves. So it isn't 24 just the levels. It's also things that can 25 affect the gradient to influence discharge.</p>	<p style="text-align: right;">Page 390</p> <p>1 on record for the Upper Snake River Basin. As a 2 result, spring discharges in the Thousand Springs 3 area have correspondingly declined based on the 4 USGS data, and is also shown on Attachment A." 5 Now, I know you discuss a lot of other 6 factors that affect these issues. But I assume 7 that you don't have any reason to modify that 8 observation? 9 A. No, but it's -- you know, when you 10 write something like this, you hope people don't 11 read it and say, it is just that, and just that 12 alone. 13 Q. You didn't integrate that in the 14 question? 15 A. No, I'm trying to clarify. I agree 16 with the statement as written as a summary, or 17 kind of overall description of what's occurred. 18 Q. That's all I'm asking. And then beyond 19 that you use the model and whatever other tools 20 and information you have available to you, to 21 further ascertain the relationship, to the extent 22 you can, between seepage, recharge, pumping and 23 spring flows and spring water rights. That's 24 been the approach you've taken? 25 A. That's correct.</p>

1 Q. Now, the Blue Lakes' water rights
2 having been established in the '70s, after the
3 peak in the incidental recharge to the aquifer,
4 is it possible that curtailing junior ground
5 water rights, that, by definition, didn't exist
6 at the time of Blue Lakes' appropriation, could
7 enhance conditions beyond or better than those
8 that existed on the date of Blue Lakes
9 appropriation?

10 A. Just curtailing ground water rights?

11 Q. Yes.

12 A. Okay. So the question is: Could just
13 curtailing ground water rights enhance the water
14 availability at the springs beyond the time of
15 the appropriations of the early '70s?

16 Q. Right.

17 A. No. I would say, no.

18 Q. Okay. Then looking at your order of
19 May 19th, 2005, again, Exhibit 11, page 11,
20 paragraph 50. And there is the statement that,
21 we've gone over, past midway in the paragraph.
22 "Blue Lakes Trout is not entitled to a water
23 supply that is enhanced beyond the conditions
24 that exist at the time such rights were
25 established."

1 Is the converse of that, Blue Lakes is
2 entitled to a water supply that reflects
3 conditions that existed at the time the rights
4 were established?

5 A. Well, this relates to what Blue Lakes
6 has a right to demand through curtailment. And,
7 you know, what this finding was getting at, is
8 we've talked extensively not in -- obviously, not
9 in agreement -- about the seasonal variation in
10 the spring discharge.

11 That seasonal variation exists today.
12 It existed when the rights were appropriated,
13 although we can't quantify the extent of the
14 variation, because we don't have the sufficient
15 data to do it. But we know that at the time the
16 rights were appropriated, irrigation using
17 surface water supply was done seasonally. That's
18 the overriding factor in the seasonal variation
19 in this observed spring discharge.

20 And so what this finding is trying to
21 get at is that, although Blue Lakes has a right
22 to divert water up to the maximum authorized
23 amount when it's available, it doesn't have the
24 right to seek -- it doesn't automatically have
25 the right to seek curtailment of junior-priority

1 rights, just because that quantity is not always
2 available. That's what this finding is getting
3 at anyway.

4 Q. Okay. So is Blue Lakes then entitled
5 to a water supply as it existed at the time of
6 appropriation?

7 A. No, I don't think so. And here's why:
8 The water supply that was available at the time
9 of appropriation was in large part the result of
10 third parties, over which the State has no
11 control, nor do you.

12 And I've said publicly before, that if
13 an error has been made by the State in allowing
14 the appropriation of unappropriated water, it was
15 not correctly characterizing the nature of that
16 unappropriated water. That remains my position.

17 So I don't think there is an
18 entitlement. I mean, the conditions were what
19 the conditions were when Blue Lakes appropriated
20 the water, and they are not necessarily entitled
21 to an improvement of those conditions through
22 curtailment of junior rights. But you
23 can't -- it doesn't go the other way.

24 Q. Okay. So I take it that the
25 maximum that the decree defines, in your view, is

1 further defined by the conditions that existed at
2 the time of the appropriation; is that correct?

3 A. In part, I think that's correct.

4 Q. And that would then mean, in the
5 context that we're discussing here, the seasonal
6 variation of flow that existed at the time of the
7 appropriation; is that correct?

8 A. That's correct.

9 Q. Okay. And that, as we've discussed
10 those flows that existed at the time of the
11 appropriation, are whatever they were, less than
12 the flows that existed in 2004; correct?

13 A. Correct. But the -- but, again, some
14 magnitude of seasonal variation, probably not too
15 much unlike what exists today, existed at the
16 time of the appropriation.

17 Q. Sure. Then is the effect of the order,
18 where you conclude that Blue Lakes' water rights
19 are satisfied with the flows that were present in
20 2004, is the effect of that to limit Blue Lakes'
21 water rights for purposes of administration to
22 the water supply that existed in 2004?

23 A. No.

24 Q. Does it end up having the effect that
25 Blue Lakes is not entitled to a water supply

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1 enhanced beyond the conditions that existed in
2 2004?

3 A. No. Although I qualify the word
4 "entitlement." Again, when I say, no, I mean I'm
5 referring to what -- I'm trying to define the
6 term "entitlement," as authorization to divert.

7 Q. Okay. So if I replaced in my prior
8 questions the word "entitlement" with the phrase
9 "authorized to divert," would you have agreed
10 with those statements in the prior questions?

11 A. I don't know. I would have to go back
12 to those prior questions. But at least in this
13 particular one --

14 Q. Let me try it the way you would like me
15 to ask it then.

16 Does the order have the effect of
17 limiting the amount of water that Blue Lakes is
18 authorized to divert, or received by way of
19 curtailment, to the flows under its second
20 priority water right, to the flows existing in
21 2004?

22 A. No.

23 Q. Why not? It seems like it does to me.
24 Because you are saying that the water right was
25 satisfied in paragraph 64 by the flows existing

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1 in 2004.

2 A. Well, again, I'll go back to how
3 I -- and I apologize for repeating it, but I
4 would answer it the same way. What this
5 finding -- this series of findings does, 63, 64
6 and 65, clearly the first right is not being
7 injured, clearly the third right is. And it's
8 not clear that the second right is.

9 Q. Now, with respect to the investigation
10 done by Cindy Yenter and Brian Patton at Clear
11 Springs that you discussed with John a little bit
12 ago, did they conduct the same kind of
13 investigation at the Blue Lakes?

14 A. Yes.

15 Q. So they would have been seeking the
16 same information and asking the same questions,
17 basically, at Blue Lakes?

18 A. Yes. And in all cases, Blue Lakes,
19 Clear Springs, Rangen, there is a memorandum to
20 me that they prepared documenting the
21 investigation, and their findings, and their
22 recommendations.

23 MR. STEENSON: Is that memorandum a
24 part of the record; do you know, Phil?

25 THE WITNESS: I'm pretty sure it is.

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1 MS. McHUGH: We have it in on our disk,
2 the Blue Lakes, Thousand Springs.

3 MR. STEENSON: Did you get a different
4 disk than I did?

5 MS. McHUGH: Maybe.

6 MR. RASSIER: You got the same disk.

7 Q. (BY MR. STEENSON) At Blue Lakes, are
8 you aware that Blue Lakes' springs is up-gradient
9 and separated by some distance from Alpheus Creek
10 where Blue Lakes --

11 A. Yes.

12 Q. Okay. So is any consideration made of
13 the fact that Blue Lakes would have no ownership
14 interest in the springs to try to improve them,
15 or through wells in the location where they
16 surfaced?

17 A. I'd have to look at the memo. But I
18 don't think any of those types of activities were
19 even suggested, because of the fact that Blue
20 Lakes diverts out of Alpheus Creek, not directly
21 from the springs. And the springs are on
22 different property than is owned by Blue Lakes.

23 Q. And does your May 19th, 2005 order
24 reflect acknowledgment that Blue Lakes diverts
25 from Alpheus Creek, and not from springs?

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1 A. It diverts -- the order reflects that
2 Blue Lakes diverts from Alpheus Creek, which is
3 supplied by spring discharge.

4 Q. And spring discharges come from ESPA;
5 correct?

6 A. Correct.

7 Q. And some of that water from the ESPA
8 came from above ground sometime in history?

9 A. Correct.

10 Q. And before that, who knows?

11 A. Correct.

12 Q. And along the course of this process of
13 conductive administration, and all the work
14 you've done, has there been discussion of concern
15 about the Thousand Springs, what's happening to
16 the Thousand Springs as the ESPA declines as a
17 loss of a state resource, not as any particular
18 individual water right, that Thousand Springs is
19 a State concern?

20 A. Yes.

21 Q. Summarize that discussion for me.

22 A. Well, it's not like there was a single
23 discussion. It's been a topic that's been in the
24 discussions from the beginning.

25 Q. Let me rephrase the question. Can you

1 summarize the concern, rather than the discussion
2 you had?

3 A. Well, the concern is, I think simply
4 that -- you know, it's not simple. But the
5 concern is that the springs have provided all
6 sorts of opportunities for people to use and
7 enjoy. And whether those uses are economic,
8 whether they are aesthetic, whether they are
9 recreational, and we're struggling to maintain
10 that. But it's worth maintaining it if we can
11 find a way to do it.

12 I think that summarizes the discussion.
13 And the question has always been: What can we
14 do? How much can we do? What's it going to
15 cost? Who pays? And how much is enough? How
16 much of trying to get -- you know, it gets back
17 to the goals and the objectives that we all
18 struggled with on the straw man proposal. What's
19 going to be the measure of success? Is it
20 stabilization? Is it reversing the declines?
21 And if so, how much.

22 Q. Do you think the value of the springs
23 for their aesthetic and recreational purposes, as
24 reflected in the discussion or discussions in the
25 concern you've just described, is a factor to be

1 considered in the optimum development of the
2 Water Resources of the State?

3 A. Yes.

4 MR. STEENSON: Thank you, Karl. I
5 appreciate it. I know you have to go. And I'm
6 done.

7 THE WITNESS: Okay.

8 FURTHER EXAMINATION
9 QUESTIONS BY MS. McHUGH:

10 Q. Can I ask a point of clarification, and
11 just one quick question? I may not have heard
12 you on Dan's question about the model. And just
13 ask it simply: Can the model predict with any
14 specificity an increase in the amount of
15 discharge to the spring that supplies Blue Lakes,
16 or the spring that supplies Clear Springs, how
17 much increase they will see as a result?

18 A. Well, you can do as I did in the order,
19 and estimate the increase that's likely based
20 upon the increase that occurs to the spring
21 reach, and the proportion that a particular
22 spring contributed historically to the discharge
23 in that reach.

24 So in the case of Blue Lakes, that
25 number is 20 percent. When the USGS did their

1 measurements of -- and it was a comprehensive
2 effort to measure the discharge from all the
3 discrete springs that they flow.

4 In the spring reach that we define, and
5 in which the Blue Lakes -- all right -- there is
6 the springs supplying Alpheus Creek in the reach
7 in which those springs lie, those springs account
8 for 20 percent of the measured discharge. So the
9 assumption is that 20 percent of any improvement
10 is estimated to accrue to Blue Lakes.

11 MS. McHUGH: Thank you.

12 (Deposition concluded at 2:53 p.m.)

13 (Signature requested.)
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25

1 CERTIFICATE OF WITNESS

2 I, KARL J. DREHER, P.E., VOL. II, being
3 first duly sworn, depose and say:

4 That I am the witness named in the foregoing
5 deposition, Volume II, consisting of pages 158
6 through 402; that I have read said deposition and
7 know the contents thereof; that the questions
8 contained therein were propounded to me; and that
9 the answers contained therein are true and
10 correct, except for any changes that I may have
11 listed on the Change Sheet attached hereto:

12 DATED this ____ day of _____, 200__.

13
14
15 KARL J. DREHER, P.E., VOL. II

16
17 SUBSCRIBED AND SWORN to before me this ____
18 day of _____, 200__.

19
20
21 NAME OF NOTARY PUBLIC

22
23 NOTARY PUBLIC FOR _____

24 RESIDING AT _____

25 MY COMMISSION EXPIRES _____

1 ERRATA SHEET FOR KARL J. DREHER, P.E., VOL. II
 2 Page ____ Line ____ Reason for Change ____
 Reads ____
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 4
 5 Page ____ Line ____ Reason for Change ____
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 8 Page ____ Line ____ Reason for Change ____
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 25 You may use another sheet if you need more room.
 WITNESS SIGNATURE _____

1 **REPORTER'S CERTIFICATE**
 2 I, COLLEEN P. KLINE, CSR No. 345, Certified
 3 Shorthand Reporter, certify:
 4 That the foregoing proceedings were taken
 5 before me at the time and place therein set
 6 forth, at which time the witness was put under
 7 oath by me;
 8 That the testimony and all objections made
 9 were recorded stenographically by me and
 10 transcribed by me or under my direction;
 11 That the foregoing is a true and correct
 12 record of all testimony given, to the best of my
 13 ability;
 14 I further certify that I am not a relative
 15 or employee of any attorney or party, nor am I
 16 financially interested in the action.
 17 IN WITNESS WHEREOF, I set my hand and seal
 18 this 8th day of November, 2007.
 19
 20
 21 COLLEEN P. KLINE, CSR
 22 Notary Public
 23 P.O. Box 2636
 24 Boise, Idaho 83701-2636
 25 My commission expires September 17, 2011